Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Bitcoin
S.4	Consensus Mechanism	Proof of Work (PoW)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Work (PoW) consensus mechanism incentivizes miners to secure the network by publishing updates to the ledger in the form of blocks, containing newly submitted and verified transactions. Miners compete to solve cryptographic puzzles, and the first to succeed earns newly minted crypto-assets (block reward) and user-paid transaction fees. Misconduct, such as attempting to add invalid blocks or rewrite the history of the ledger, results in wasted computational resources and opportunity costs, creating an economic penalty that discourages dishonest behavior.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	162507942346.48419
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Ethereum
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	4901006.80762
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Tether
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	12282.03905
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	BNB Chain
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	93896.23761
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Solana
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	17116548.87132
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	USDC
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	42619.71928
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	XRPL
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	470471.11309
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Dogecoin
S.4	Consensus Mechanism	Proof of Work (PoW)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Work (PoW) consensus mechanism incentivizes miners to secure the network by publishing updates to the ledger in the form of blocks, containing newly submitted and verified transactions. Miners compete to solve cryptographic puzzles, and the first to succeed earns newly minted crypto-assets (block reward) and user-paid transaction fees. Misconduct, such as attempting to add invalid blocks or rewrite the history of the ledger, results in wasted computational resources and opportunity costs, creating an economic penalty that discourages dishonest behavior.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	8470753140.8868
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	TRON
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	3542033.06437
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	TON
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	3189552.94787
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Cardano
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	500804.75758
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Avalanche
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	3259420.47051
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Shiba Inu
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	316.6558
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Chainlink
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	273.42774
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Bitcoin Cash
S.4	Consensus Mechanism	Proof of Work (PoW)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Work (PoW) consensus mechanism incentivizes miners to secure the network by publishing updates to the ledger in the form of blocks, containing newly submitted and verified transactions. Miners compete to solve cryptographic puzzles, and the first to succeed earns newly minted crypto-assets (block reward) and user-paid transaction fees. Misconduct, such as attempting to add invalid blocks or rewrite the history of the ledger, results in wasted computational resources and opportunity costs, creating an economic penalty that discourages dishonest behavior.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	684190056.43135
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Polkadot
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	1033248.07664
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	DAI
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	256.03921
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Litecoin
S.4	Consensus Mechanism	Proof of Work (PoW)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Work (PoW) consensus mechanism incentivizes miners to secure the network by publishing updates to the ledger in the form of blocks, containing newly submitted and verified transactions. Miners compete to solve cryptographic puzzles, and the first to succeed earns newly minted crypto-assets (block reward) and user-paid transaction fees. Misconduct, such as attempting to add invalid blocks or rewrite the history of the ledger, results in wasted computational resources and opportunity costs, creating an economic penalty that discourages dishonest behavior.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	3541499476.87518
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Near Protocol
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	3196499.84955
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Uniswap
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	19490.04874
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Kaspa
S.4	Consensus Mechanism	Proof of Work (PoW)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Work (PoW) consensus mechanism incentivizes miners to secure the network by publishing updates to the ledger in the form of blocks, containing newly submitted and verified transactions. Miners compete to solve cryptographic puzzles, and the first to succeed earns newly minted crypto-assets (block reward) and user-paid transaction fees. Misconduct, such as attempting to add invalid blocks or rewrite the history of the ledger, results in wasted computational resources and opportunity costs, creating an economic penalty that discourages dishonest behavior.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	199333567.78287
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Internet Computer
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	301577.42739
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Pepe
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	221.65466
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Aptos
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	359597.06001
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Artificial Superintelligence Alliance
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	159340.64425
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Stellar
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-12
S.7	End of the period to which the disclosure relates	2025-04-25
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	115381.91476
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Ethereum Classic
S.4	Consensus Mechanism	Proof of Work (PoW)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Work (PoW) consensus mechanism incentivizes miners to secure the network by publishing updates to the ledger in the form of blocks, containing newly submitted and verified transactions. Miners compete to solve cryptographic puzzles, and the first to succeed earns newly minted crypto-assets (block reward) and user-paid transaction fees. Misconduct, such as attempting to add invalid blocks or rewrite the history of the ledger, results in wasted computational resources and opportunity costs, creating an economic penalty that discourages dishonest behavior.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	238154801.55387
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	First Digital USD
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	9.18172
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Stacks
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	119420.19
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Sui
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-12
S.7	End of the period to which the disclosure relates	2025-04-25
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	1019724.1853
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Cronos
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	296464.61474
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Filecoin
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	207602981.24104
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Aave
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	1288.8047
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Immutable
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	97461.02533
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Render
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	64.72471
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Bittensor
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	273211.76826
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Mantle
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	293787.59877
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Hedera
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	46911.51556
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Arbitrum
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	1907024.90581
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	VeChain
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	81728.86099
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Injective
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-12
S.7	End of the period to which the disclosure relates	2025-04-25
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	131482.65158
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Optimism
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	217313.46583
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Cosmos
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-12
S.7	End of the period to which the disclosure relates	2025-04-25
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	767991.19274
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Maker
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	36.93388
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	dogwifhat
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	100.38324
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Arweave
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	43973.69666
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	The Graph
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	26.22706
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	THORChain
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	50209.87026
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Helium
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	73923.89695
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Bonk
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	207.99107
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	FLOKI
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	87.63179
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Theta Network
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	87218.77169
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Algorand
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	2424760.36588
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Jupiter Project
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	0.81158
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Pyth Network
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	21.42266
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	PayPal USD
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	377.9545
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Lido DAO
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	447300.22476
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Celestia
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	187068.63579
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Bitcoin SV
S.4	Consensus Mechanism	Proof of Work (PoW)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Work (PoW) consensus mechanism incentivizes miners to secure the network by publishing updates to the ledger in the form of blocks, containing newly submitted and verified transactions. Miners compete to solve cryptographic puzzles, and the first to succeed earns newly minted crypto-assets (block reward) and user-paid transaction fees. Misconduct, such as attempting to add invalid blocks or rewrite the history of the ledger, results in wasted computational resources and opportunity costs, creating an economic penalty that discourages dishonest behavior.
S.6	Beginning of the period to which the disclosure relates	2025-04-05
S.7	End of the period to which the disclosure relates	2025-04-18
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	96501938.84002
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	JasmyCoin
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	36.75132
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Sei
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	105312.57331
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Flow
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	69966.04908
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	MANTRA
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	375380.67663
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Ondo
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	181.25135
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Core
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	69749.12719
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	BitTorrent
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	2.24293
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Quant
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	29.39187
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	MultiversX
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	49491.93493
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Starknet
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	46845.85243
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	EOS
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	123141.27052
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Brett
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	5.46662
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Flare
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	119795.84781
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Axie Infinity
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	22.84028
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	NEO
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	48127.36633
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	ORDI
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	0.00444
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Tezos
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-12
S.7	End of the period to which the disclosure relates	2025-04-25
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	248813.89211
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Beam
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	40335.46015
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	GALA
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	80217.9771
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Worldcoin
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	34.55827
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	The Sandbox
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	25.55197
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Popcat
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	159.43682
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Akash Network
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	33002.71063
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Ethereum Name Service
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	132676.85716
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

CCRI

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Conflux
S.4	Consensus Mechanism	Proof of Work (PoW)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Work (PoW) consensus mechanism incentivizes miners to secure the network by publishing updates to the ledger in the form of blocks, containing newly submitted and verified transactions. Miners compete to solve cryptographic puzzles, and the first to succeed earns newly minted crypto-assets (block reward) and user-paid transaction fees. Misconduct, such as attempting to add invalid blocks or rewrite the history of the ledger, results in wasted computational resources and opportunity costs, creating an economic penalty that discourages dishonest behavior.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	36833981.78047
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Dogs
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	1.47531
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	dYdX
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	54492.17179
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Wormhole
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	42.98953
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Ronin
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	40612.5519
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Decentraland
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	62.54135
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Mina Protocol
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	32442.37002
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Zcash
S.4	Consensus Mechanism	Proof of Work (PoW)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Work (PoW) consensus mechanism incentivizes miners to secure the network by publishing updates to the ledger in the form of blocks, containing newly submitted and verified transactions. Miners compete to solve cryptographic puzzles, and the first to succeed earns newly minted crypto-assets (block reward) and user-paid transaction fees. Misconduct, such as attempting to add invalid blocks or rewrite the history of the ledger, results in wasted computational resources and opportunity costs, creating an economic penalty that discourages dishonest behavior.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	54670584.14973
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	PAX Gold
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	176.61477
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Chiliz
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	8715.22003
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Pendle
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	94.71353
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	FTX
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	3.678
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	PancakeSwap
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	552.6803
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Synthetix Network
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	1016.67759
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	AIOZ Network
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	37234.59235
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	IOTA
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2024-11-20
S.7	End of the period to which the disclosure relates	2024-12-03
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	52521.20594
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Ethena
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	60.71597
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Astar
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	24760.54101
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Axelar
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	36230.6288
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	BOOK OF MEME
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	216.12199
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Gnosis
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	34662.67269
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	XDC Network
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	141080.32282
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Raydium
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	111.58719
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Livepeer
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	20.94944
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Compound
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	3726.9098
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	SafePal
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	0.62217
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Oasis
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	20447.56224
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	ZkSync
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	157136.92934
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Nervos Network
S.4	Consensus Mechanism	Proof of Work (PoW)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Work (PoW) consensus mechanism incentivizes miners to secure the network by publishing updates to the ledger in the form of blocks, containing newly submitted and verified transactions. Miners compete to solve cryptographic puzzles, and the first to succeed earns newly minted crypto-assets (block reward) and user-paid transaction fees. Misconduct, such as attempting to add invalid blocks or rewrite the history of the ledger, results in wasted computational resources and opportunity costs, creating an economic penalty that discourages dishonest behavior.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	20573615.23669
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	ApeCoin
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	59.36256
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	LayerZero
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	34907.52709
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	cat in a dogs world
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	90.35453
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Safe
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	18.63139
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Trust Wallet
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	1.81918
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Curve DAO
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	177.18747
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	IoTeX
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	21825.164
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Kava
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	57447.07372
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Mog Coin
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	76.16416
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	SuperVerse
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	24.71294
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	1inch
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	17.34956
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Amp
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	62.2368
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	ConstitutionDAO
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	2.17933
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Dash
S.4	Consensus Mechanism	Proof of Work (PoW)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Work (PoW) consensus mechanism incentivizes miners to secure the network by publishing updates to the ledger in the form of blocks, containing newly submitted and verified transactions. Miners compete to solve cryptographic puzzles, and the first to succeed earns newly minted crypto-assets (block reward) and user-paid transaction fees. Misconduct, such as attempting to add invalid blocks or rewrite the history of the ledger, results in wasted computational resources and opportunity costs, creating an economic penalty that discourages dishonest behavior.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	53276182.41922
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Raydium
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	111.58719
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Blur
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	8.31458
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Kusama
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	27219.49695
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	GMT
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	20.16348
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Jito
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	18.21703
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Aevo
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	10287.15224
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Golem
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	9.14664
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Holo
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	6.91733
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Aragon
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	0.24022
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	aelf
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	20798.15994
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	WOO
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	17.59006
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Osmosis
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	19657.51781
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Galxe
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	0.65833
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Reserve Rights
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	99.73138
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Echelon Prime
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	80.60008
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Dymension
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	8973.93982
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Zilliqa
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	0.40215
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	GMX
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	34.3019
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Basic Attention
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	13.56237
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Gravity
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	18.58211
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	0x Protocol
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	13.23949
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Manta Network
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	9561.24124
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Memecoin
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	27.56887
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Ankr Network
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	16.19264
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Celo
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	30328.27641
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

CCRI

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Terra
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	13855.8936
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Qtum
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	26237.49537
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Enjin Coin
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	15552.35828
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	SPACE ID
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	5.23131
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Ravencoin
S.4	Consensus Mechanism	Proof of Work (PoW)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Work (PoW) consensus mechanism incentivizes miners to secure the network by publishing updates to the ledger in the form of blocks, containing newly submitted and verified transactions. Miners compete to solve cryptographic puzzles, and the first to succeed earns newly minted crypto-assets (block reward) and user-paid transaction fees. Misconduct, such as attempting to add invalid blocks or rewrite the history of the ledger, results in wasted computational resources and opportunity costs, creating an economic penalty that discourages dishonest behavior.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	16365104.87633
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Ether.fi
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	24.6536
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Rocket Pool
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	14.99729
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Flux
S.4	Consensus Mechanism	Proof of Work (PoW)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Work (PoW) consensus mechanism incentivizes miners to secure the network by publishing updates to the ledger in the form of blocks, containing newly submitted and verified transactions. Miners compete to solve cryptographic puzzles, and the first to succeed earns newly minted crypto-assets (block reward) and user-paid transaction fees. Misconduct, such as attempting to add invalid blocks or rewrite the history of the ledger, results in wasted computational resources and opportunity costs, creating an economic penalty that discourages dishonest behavior.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	8758244.73346
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	OriginTrail
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	8.1542
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Mask Network
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	39.61841
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Threshold Network
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	10.35392
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Convex Finance
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	40.53504
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	SSV Network
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	3.22455
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Arkham
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	24.49818
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Decred
S.4	Consensus Mechanism	Proof of Work (PoW)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Work (PoW) consensus mechanism incentivizes miners to secure the network by publishing updates to the ledger in the form of blocks, containing newly submitted and verified transactions. Miners compete to solve cryptographic puzzles, and the first to succeed earns newly minted crypto-assets (block reward) and user-paid transaction fees. Misconduct, such as attempting to add invalid blocks or rewrite the history of the ledger, results in wasted computational resources and opportunity costs, creating an economic penalty that discourages dishonest behavior.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	21181445.0876
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	UMA
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	172.89248
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	io.net
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	18.0192
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Metis
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	10854.50388
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Polymesh
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	20070.63969
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Aerodrome Finance
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	14.64775
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Turbo
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	17.56512
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Tribe
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	0.72052
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Open Campus
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	0.49704
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	ZetaChain
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	22540.35816
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Illuvium
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	15.9106
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Hivemapper
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	15.95726
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	SKALE
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	14563.6869
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Biconomy
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	16.49264
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Simon's Cat
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	3.08724
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Arcblock
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	4.37145
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	AltLayer
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	10174.81504
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Blast
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	10229.07233
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Loopring
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	13982.30119
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	yearn.finance
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	17.36704
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Audius
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	10553.10556
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Band Protocol
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	13145.59927
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Harmony
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	19432.60995
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Kadena
S.4	Consensus Mechanism	Proof of Work (PoW)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Work (PoW) consensus mechanism incentivizes miners to secure the network by publishing updates to the ledger in the form of blocks, containing newly submitted and verified transactions. Miners compete to solve cryptographic puzzles, and the first to succeed earns newly minted crypto-assets (block reward) and user-paid transaction fees. Misconduct, such as attempting to add invalid blocks or rewrite the history of the ledger, results in wasted computational resources and opportunity costs, creating an economic penalty that discourages dishonest behavior.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	13156704.95777
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Tellor Tributes
S.4	Consensus Mechanism	Proof of Work (PoW)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Work (PoW) consensus mechanism incentivizes miners to secure the network by publishing updates to the ledger in the form of blocks, containing newly submitted and verified transactions. Miners compete to solve cryptographic puzzles, and the first to succeed earns newly minted crypto-assets (block reward) and user-paid transaction fees. Misconduct, such as attempting to add invalid blocks or rewrite the history of the ledger, results in wasted computational resources and opportunity costs, creating an economic penalty that discourages dishonest behavior.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	6504512.75986
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	VeThor
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	6.26567
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Sushi
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	23.64827
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	NEM
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	17933.44575
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Ontology
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	15596.0223
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Chromia
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	8886.02231
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Frax Share
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	74.40615
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Polygon
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	217291.4007
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Moonbeam
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	8055.64214
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Casper
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	58906.1543
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Vanar Chain
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	5922.92898
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Alchemy Pay
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	18.89292
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	COTI
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	14229.77669
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Yield Guild Games
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	3.01694
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Storj
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	21.74413
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	PONKE
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	13.70355
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Velo
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	0.89833
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	ICON
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	12054.38819
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Saga
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	6339.90183
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Solar
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	1.43258
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Non-Playable Coin
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	20.62118
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	API3
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	22.19527
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Nano
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	14739.96731
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

CCRI

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Waves
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	13183.77252
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Horizen
S.4	Consensus Mechanism	Proof of Work (PoW)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Work (PoW) consensus mechanism incentivizes miners to secure the network by publishing updates to the ledger in the form of blocks, containing newly submitted and verified transactions. Miners compete to solve cryptographic puzzles, and the first to succeed earns newly minted crypto-assets (block reward) and user-paid transaction fees. Misconduct, such as attempting to add invalid blocks or rewrite the history of the ledger, results in wasted computational resources and opportunity costs, creating an economic penalty that discourages dishonest behavior.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	13650001.17116
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	XAI Stablecoin
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	0.09015
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Balancer
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	45.15179
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	DigiByte
S.4	Consensus Mechanism	Proof of Work (PoW)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Work (PoW) consensus mechanism incentivizes miners to secure the network by publishing updates to the ledger in the form of blocks, containing newly submitted and verified transactions. Miners compete to solve cryptographic puzzles, and the first to succeed earns newly minted crypto-assets (block reward) and user-paid transaction fees. Misconduct, such as attempting to add invalid blocks or rewrite the history of the ledger, results in wasted computational resources and opportunity costs, creating an economic penalty that discourages dishonest behavior.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	17969664.07685
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Lisk
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	10830.72943
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	iExec RLC
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	3.28081
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Marlin
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	12.8234
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Taiko
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	7589.50855
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Drift Protocol
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	8.77758
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	SuperRare
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	34.3938
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	DUSK
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	4494.98667
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Cartesi
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	5987.98544
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Numeraire
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	9.19985
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	WAX
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	9408.67319
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Smooth Love Potion
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	3.91778
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Pixels
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	2.95642
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	TrueFi
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	7.22968
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Powerledger
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	6.57557
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Orca
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	36.51391
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Vulcan Forged
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	4.90454
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Keep Network
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	1.08024
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Pundi X
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	8708.87152
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Coin98
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	2.76324
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Civic
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	8.11216
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Bounce
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	13.60094
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Status
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	107.66541
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Treasure
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	13.24391
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Kadena
S.4	Consensus Mechanism	Proof of Work (PoW)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Work (PoW) consensus mechanism incentivizes miners to secure the network by publishing updates to the ledger in the form of blocks, containing newly submitted and verified transactions. Miners compete to solve cryptographic puzzles, and the first to succeed earns newly minted crypto-assets (block reward) and user-paid transaction fees. Misconduct, such as attempting to add invalid blocks or rewrite the history of the ledger, results in wasted computational resources and opportunity costs, creating an economic penalty that discourages dishonest behavior.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	13156704.95777
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Moonriver
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	6132.4317
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Highstreet
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	3.35943
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	PHALA
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	9434.8138
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Kyber Network Crystal
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	18.0092
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Gains Network
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	7.82636
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Synapse
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	15.88428
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Request
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	4.05997
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Spell
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	18.22399
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Dent
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	3.46878
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Orchid Protocol
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	4847.20397
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Binance USD
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	21.31988
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Big Time
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	38.26702
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Portal
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	11.30485
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Liquity
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	16.33978
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	My Neighbor Alice
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	4.95479
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	LimeWire
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	12.35782
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Hashflow
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	4.77253
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	EURC
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	147.31586
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Omni Network
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	4687.15113
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Bancor Network
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	14.5729
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	XYO Network
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	19.11681
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Metal DAO
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	8219.75512
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Covalent X Token
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	3.98895
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Stargate Finance
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	26.17197
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Adventure Gold
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	3.88877
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Gods Unchained
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	5.19098
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

CCRI

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Radworks
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	8.84574
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Badger
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	98.08356
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Origin Token
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	6.53456
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	ARPA
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	4.95063
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Bluzelle
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	1802.283
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	NKN
S.4	Consensus Mechanism	Proof of Work (PoW)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Work (PoW) consensus mechanism incentivizes miners to secure the network by publishing updates to the ledger in the form of blocks, containing newly submitted and verified transactions. Miners compete to solve cryptographic puzzles, and the first to succeed earns newly minted crypto-assets (block reward) and user-paid transaction fees. Misconduct, such as attempting to add invalid blocks or rewrite the history of the ledger, results in wasted computational resources and opportunity costs, creating an economic penalty that discourages dishonest behavior.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	1809848.54356
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	TokenFi
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	13.20927
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Stella
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	1.92215
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Kin
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	4.49857
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Degen (Base)
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	21.02858
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Aavegotchi
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	43.90892
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Gitcoin
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	16.43952
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Across Protocol
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	10.7747
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Automata
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	0.57845
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Enzyme
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	13.81219
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Clover Finance
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	3561.02402
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Neiro
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	7.75014
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Ampleforth Governance
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	21.74113
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	IDEX
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	0.89908
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Tensor
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	13.20419
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Aergo
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	54.60603
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	RARI
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	1.51275
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	district0x
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	102.1976
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	DIA
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	3.47129
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Ren
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	11.12885
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Celo Dollar
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	0.22643
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Perpetual Protocol
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	19.28994
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Rally
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	1.02985
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	SelfKey
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	1.32238
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Stafi
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	2465.385
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Solana Name Service
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	7.53108
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	OMG Network
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	4.11804
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Measurable Data
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	2.55791
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Polkastarter
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	3.24951
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	xMoney
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	1.32551
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Parcl
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	13.33259
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	BarnBridge
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	8.74582
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Tokemak
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	1.63436
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Serum
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	25.89312
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Celsius Network
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	1.78861
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Augur
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	2.72949
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Radworks
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	8.84574
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Mirror Protocol
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	0.74381
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Moca Coin
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	14.62971
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Ocean Protocol
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	10.68447
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Songbird
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	8990.66287
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Moonwell
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	2.21206
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	SQD
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	7.35856
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	CoW Protocol
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	27.14952
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Merit Circle
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	0.20676
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	NuCypher
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	4822.60936
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Lido Staked Ether
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	203802.7467
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Stafi
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	2465.385
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Coinbase Wrapped Staked ETH
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	40.69745
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	tBTC
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	30.34688
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Wrapped Centrifuge
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	3.2694
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	OKT Chain
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	52603.85993
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Swell
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	8.80537
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Syrup
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	30.2276
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Eigenlayer
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	122.80889
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Sweat Economy
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	5.49291
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Moo Deng
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	13.32781
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Peanut the Squirrel
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	11.82732
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Hamster Kombat
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	3.97548
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Lumia
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	2707.6867
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Catizen
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	0.42877
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Magic Eden
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	23.45843
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	AdEx
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	1.45467
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Aethir
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	36.801
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Clearpool
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	21.5371
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	DOLA Borrowing Right
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	10.33495
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	EthereumPoW
S.4	Consensus Mechanism	Proof of Work (PoW)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Work (PoW) consensus mechanism incentivizes miners to secure the network by publishing updates to the ledger in the form of blocks, containing newly submitted and verified transactions. Miners compete to solve cryptographic puzzles, and the first to succeed earns newly minted crypto-assets (block reward) and user-paid transaction fees. Misconduct, such as attempting to add invalid blocks or rewrite the history of the ledger, results in wasted computational resources and opportunity costs, creating an economic penalty that discourages dishonest behavior.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	13523781.07021
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Gigachad
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	78.84181
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Morpho
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	35.09795
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Nosana
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	7.50473
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Puffer
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	2052.69363
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Renzo
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	16.67354
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Alien Worlds
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	0.80505
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Zeus Network
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	11.06985
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Pudgy Penguins
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	66.72677
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Acala
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	5.3771
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Energy Web
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	0.01336
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Kamino
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	48.33986
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	SPX6900
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	293.19737
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	michi
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	45.22562
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Goatseus Maximus
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	18.65732
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Fusionist
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	0.95561
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	aixbt by Virtuals
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	8.24885
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	AVA (Travala)
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	2.17026
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Banana Gun
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	20.52556
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Bella Protocol
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	2.79403
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Beta Finance
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	8.92005
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Cetus Protocol
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	1.22995
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Just a chill guy
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	7.46796
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	COMBO
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	181.75051
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Contentos
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	0.04417
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Creditcoin
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	31725.01005
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Streamr
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	2.42644
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	DeepBook
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	3.3673
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	DODO
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	9.2338
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	SynFutures
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	2.07176
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Etherparty
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	0.00178
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Grass
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	29.92886
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
general	**General information**	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Hifi Finance
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
mandatory	**Mandatory key indicator on energy consumption**	
S.8	Energy consumption (per year) in kWh	2.09147
sources	**Sources and methodologies**	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Hooked Protocol
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	0.2471
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Hyperliquid
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	668050.16661
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	IOST
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	10515.64353
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	IQ
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	9.2764
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Komodo
S.4	Consensus Mechanism	Proof of Work (PoW)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Work (PoW) consensus mechanism incentivizes miners to secure the network by publishing updates to the ledger in the form of blocks, containing newly submitted and verified transactions. Miners compete to solve cryptographic puzzles, and the first to succeed earns newly minted crypto-assets (block reward) and user-paid transaction fees. Misconduct, such as attempting to add invalid blocks or rewrite the history of the ledger, results in wasted computational resources and opportunity costs, creating an economic penalty that discourages dishonest behavior.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	1807945.03433
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Linear
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	39.66568
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Lista DAO
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	0.90834
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	LTO Network
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	1578.84579
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	LUKSO
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	3794.30238
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Maverick Protocol
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	4.14717
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Heroes of Mavia
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	12.39675
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Merlin Chain
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	5396.85954
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	NFPrompt
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	0.04921
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	NULS
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	548.89256
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Ontology Gas
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	9516.8386
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	peaq
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	11640.79851
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Phoenix
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	0.07475
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Prom
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	13244.17816
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	QuarkChain
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	1.19035
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Radiant Capital
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	10.47357
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Scroll
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	7428.98092
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Self Chain
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	2547.77415
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Stratis
S.4	Consensus Mechanism	Proof of Stake (PoS)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Stake (PoS) consensus mechanism incentivizes validators to secure the network and validate transactions by staking their own crypto-assets as collateral. Validators are selected to create new blocks based on the amount of cryptocurrency they hold and are willing to 'stake', rather than through computational power. If validators act honestly, they earn rewards through transaction fees; however, malicious behavior or proposing invalid blocks can lead to a reduction of their staked assets, creating an economic penalty that discourages misconduct and ensures network integrity.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	12205.369
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	TARS AI
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	11.322
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Viction
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	2981.79154
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Toshi
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	4.84448
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	UXLINK
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	7.35856
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Vana
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	20238.0753
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Virtuals Protocol
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	22.01354
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Verasity
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	51.90903
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	WINkLink
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	0.86276
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Zircuit
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	9214.00706
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Act I The AI Prophecy
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	73.77868
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	CYBER
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	5055.30534
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Movement
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	88014.90038
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Kaia
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	75190.72385
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Shentu
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	5808.41734
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Mobox
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	8.86199
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	ARK
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	9951.06936
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Myria
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	2631.97087
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Telos
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	4475.08918
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Bio Protocol
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	11.19691
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Frontier
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	0.57496
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Official Trump
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	203.17501
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Baby Doge Coin
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	37.47245
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Decubate
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	0.2127
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	SingularityNET
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	4.78402
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Terra Luna Classic
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	40109.74267
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Schuman EURØP
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	0.11559
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Melania Meme
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	71.58641
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	PAAL AI
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	42.14761
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	RedStone
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	9.17443
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Usual
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	91.32861
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Sonic
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	190637.49126
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	ai16z
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	78.07042
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Animecoin
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	13.61469
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Atari
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	0.0693
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	CARV
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	12.32356
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	ChainGPT
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	9.26531
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	delta.theta
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	0.01211
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Elixir
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	8.26753
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Epic Cash
S.4	Consensus Mechanism	Proof of Work (PoW)
S.5	Incentive Mechanisms and Applicable Fees	A Proof-of-Work (PoW) consensus mechanism incentivizes miners to secure the network by publishing updates to the ledger in the form of blocks, containing newly submitted and verified transactions. Miners compete to solve cryptographic puzzles, and the first to succeed earns newly minted crypto-assets (block reward) and user-paid transaction fees. Misconduct, such as attempting to add invalid blocks or rewrite the history of the ledger, results in wasted computational resources and opportunity costs, creating an economic penalty that discourages dishonest behavior.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	640667.05642
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Heima
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	0.84345
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Story
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	122559.16125
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	KAITO
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	3.3243
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Lido Staked SOL
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	7.26537
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Plume
S.4	Consensus Mechanism	Byzantine-Fault Tolerant (BFT)
S.5	Incentive Mechanisms and Applicable Fees	Byzantine-Fault-Tolerant (BFT) consensus mechanisms, such as Proof of Authority (PoA), Practical Byzantine Fault Tolerance (PBFT), Byzantine Agreement (BA) or similar mechanisms, secure the network through a predefined set of validators who are trusted to validate transactions and add blocks to the ledger. Unlike open networks where anyone can participate (as in Proof-of-Work or Proof-of-Stake), BFT and similar mechanisms operate with known and vetted participants, often selected by a governing entity. Validators are incentivized to maintain the network's integrity through monetary rewards or external motivations, such as institutional trust or regulatory obligations. Malicious actions, such as submitting invalid transactions or failing to participate in consensus, can result in penalties, removal from the validator set, or other repercussions, creating an economic and reputational deterrent to dishonest behavior. Validators reach consensus by verifying transactions and proposing blocks, and, as long as a majority of validators act honestly, the network remains secure.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	41611.82945
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Solidus Ai Tech
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	1.37533
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	StakeWise
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	0.49348
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Thena
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	1.37134
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	UPCX
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	1.25584
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Viberate
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	0.79968
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Base Protocol
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	1.82874
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Bluefin
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	0.35196
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Cloud
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	5.83546
Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
	General information	
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Sologenic
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
	Mandatory key indicator on energy consumption	
S.8	Energy consumption (per year) in kWh	0.06439
	Sources and methodologies	
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Mandatory information on principal adverse impacts on the climate and other environment-related adverse impacts of the consensus mechanism

N	Field	Content
General information		
S.1	Name	Tangany GmbH
S.2	Relevant legal entity identifier	529900WKXS5ZPJY9W498
S.3	Name of the cryptoasset	Suilend
S.4	Consensus Mechanism	Token / No Consensus Algorithm
S.5	Incentive Mechanisms and Applicable Fees	Tokens do not have an own consensus mechanism, but rely on the consensus mechanism of one or multiple underlying crypto-asset networks. Depending on the token design, incentive mechanisms arise from the utility, scarcity, or governance rights.
S.6	Beginning of the period to which the disclosure relates	2025-04-11
S.7	End of the period to which the disclosure relates	2025-04-24
Mandatory key indicator on energy consumption		
S.8	Energy consumption (per year) in kWh	0.3314
Sources and methodologies		
S.9	Energy consumption sources and methodologies	Data provided by CCRI; all indicators are based on a set of assumptions and thus represent estimates; methodology description and overview of input data, external datasets and underlying assumptions available at: https://carbon-ratings.com/dl/whitepaper-mica-methods-2024 and https://docs.mica.api.carbon-ratings.com. We do not account for any offsetting of energy consumption or other market-based mechanism as of today.

Last review: 2025-04-25