ABetter Way

POWER + COOLING

ECOMAX®

MODULAR ENERGY FOR

data centers

ABetter Way

The grid can't keep up. Your data center can.

Power
beyond grid limits

To accelerate timelines and reduce reliance on a constrained grid, data center developers are increasingly turning to gas engines for **continuous and reliable on-site generation.**

BUSINESS IMPACT FOR DEVELOPERS & OPERATORS

CUT CRITICAL PATH DELAYS
On-site power is now the fastest way to energize new AI/Cloud capacity.

CONTROL YOUR OPERATING COSTS
Reduced electric usage for cooling = lower PUE, lower energy.

DE-RISK YOUR BUILD
Avoid interconnection queues.

MEET SUSTAINABILITY EXPECTATIONS
RNG-ready, H_2-ready, lower CO_2 and improved KPIs.

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power + cooling | Ecomax® | modular energy for data center

Data center energy usage is defined by high-density computing loads that demand large amounts of electricity and the highest levels of reliability to ensure continuous operation.

Power + Cooling

in one integrated plant

TRIGENERATION = ELECTRICITY + HEAT + COOLING

ECOMAX® doesn't just generate electricity. It recovers engine waste heat and converts it into chilled water via absorption chillers.

KEY KPI IMPROVEMENTS ENABLED BY ECOMAX®

PUE (POWER USAGE EFFECTIVENESS)

Waste-heat-to-cooling reduces overall electricity demand.

WUE (WATER USAGE EFFECTIVENESS)

With hybrid/dry-cooling options, WUE can drop significantly.
In cold climates → **near-zero water usage**.

CO_2 EMISSIONS

Higher total efficiency.
Compatibility with **RNG** and **Hydrogen-ready** platforms.
CO_2 reduction vs. grid + mechanical chillers: 10–30% depending on grid carbon intensity.

ENERGY SAVING

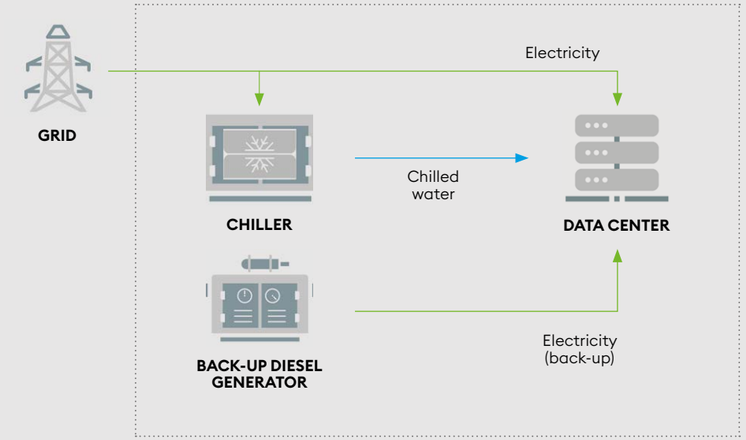
Combines prime power + cooling in one high-efficiency system.
Cuts electric power demand by **30–60%** for base cooling.
Reduces grid consumption and peak demand charges.

Standard VS

Trigeneration

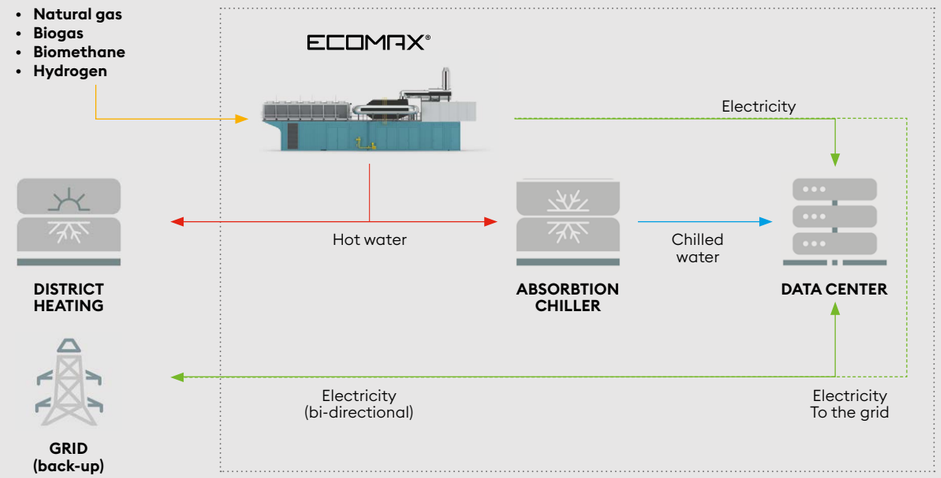
STANDARD SOLUTION

CONVENTIONAL POWER SUPPLY VIA THE LOCAL GRID



TRIGENERATION SOLUTION

SECURE, DECENTRALIZED ELECTRICITY PLUS HEAT AND COOLING SUPPLY



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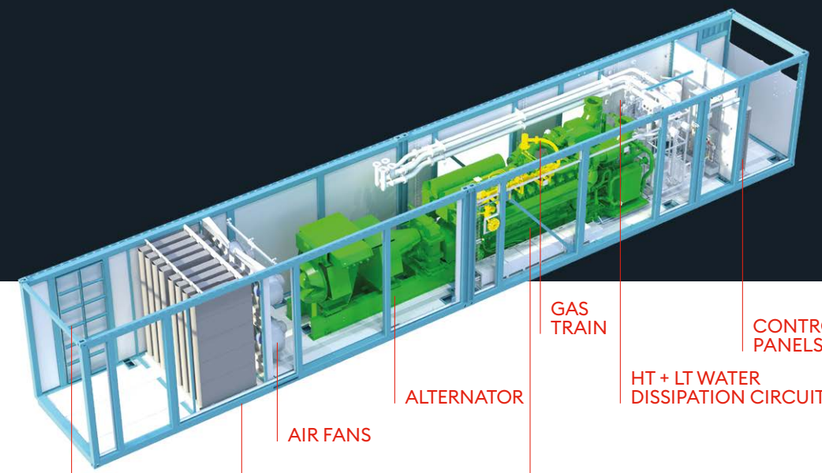
ECOMAX®
Modular. Scalable. Repeatable.

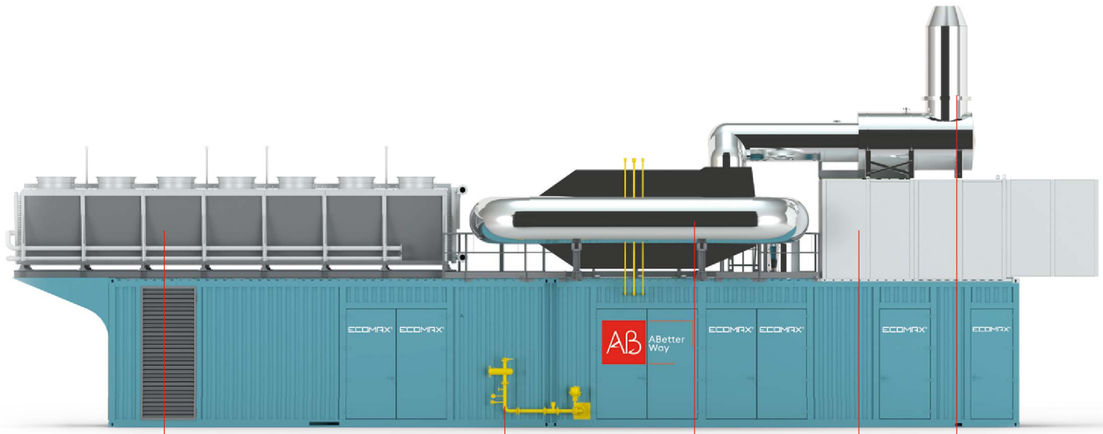
Standardized 10–500 MWe + Power Blocks

Indoor or outdoor containerized solutions.
Single-vendor responsibility (AB handles engineering, EPC support, commissioning, lifecycle service).
Multi-site replication for hyperscale roll-outs.

The Fastest Path to Power

- FACTORY-ASSEMBLED, TESTED, AND DELIVERED AS MODULAR BLOCKS
- RAPID PERMITTING THANKS TO ULTRA LOW EMISSIONS
- PERFECT FOR PHASED BUILDS AND FAST-GROWING AI CAMPUSES





Engineered for the Data Center Market

BUILT FOR AI LOADS, HIGH DENSITY & TOUGH CLIMATES

- → Handles extreme **ambient temperatures**
- → **Dry-cooler** options for water-constrained regions
- → Fast-start configurations
- → Designed for microgrid operation in full integration with **UPS**, **flywheels** and **BESS**

RESILIENCE

ECOMAX® becomes the continuous prime power layer, delivering:

- → **Island mode**
- → **Black-start options**
- → **On-site firm capacity** independent of grid availability
- → **Fuel flexibility**: Natural Gas, Biogas, RNG and H_2

A FUTURE-READY PATH TO DECARBONIZATION

ECOMAX® supports low-carbon fuels without major redesign:

- → **RNG (Renewable Natural Gas)**
- → **Hydrogen blends**
- → **100% Hydrogen-ready options** for long-term energy strategy.

Operation and service

AB guarantees constant support of each plant installed throughout its life cycle, provided by specialized AB technicians worldwide and backed by AB's global service organization.

AB Service Advantages

- SINGLE SOURCE OF RESPONSIBILITY
- 24/7 REMOTE MONITORING SUPPORT AND ONLINE DIAGNOSIS
- FULLY IOT-ENABLED PLANT
- AVAILABILITY AND SUPPLY OF ORIGINAL SPARE PARTS
- GLOBAL SERVICE ORGANIZATION WITH DEDICATED PLANT SUPPORT IN THE COUNTRIES WHERE WE HAVE SUBSIDIARIES
- GLOBAL NETWORK OF SPARE PARTS WAREHOUSES
- FAST TURNAROUND FOR REPAIRS, UPDATES AND OVERHAULS

AB is the global leader in energy sustainability solutions. The company delivers high-efficiency cogeneration and renewable natural gas systems.

About AB

Backed by more than 40 years of experience, **AB** supports the growing demand for reliable, lower carbon power across industrial, commercial and data center applications.
AB manages every stage of combined heat and power (CHP) and renewable natural gas (RNG) projects in-house, reducing risk, and accelerating results.

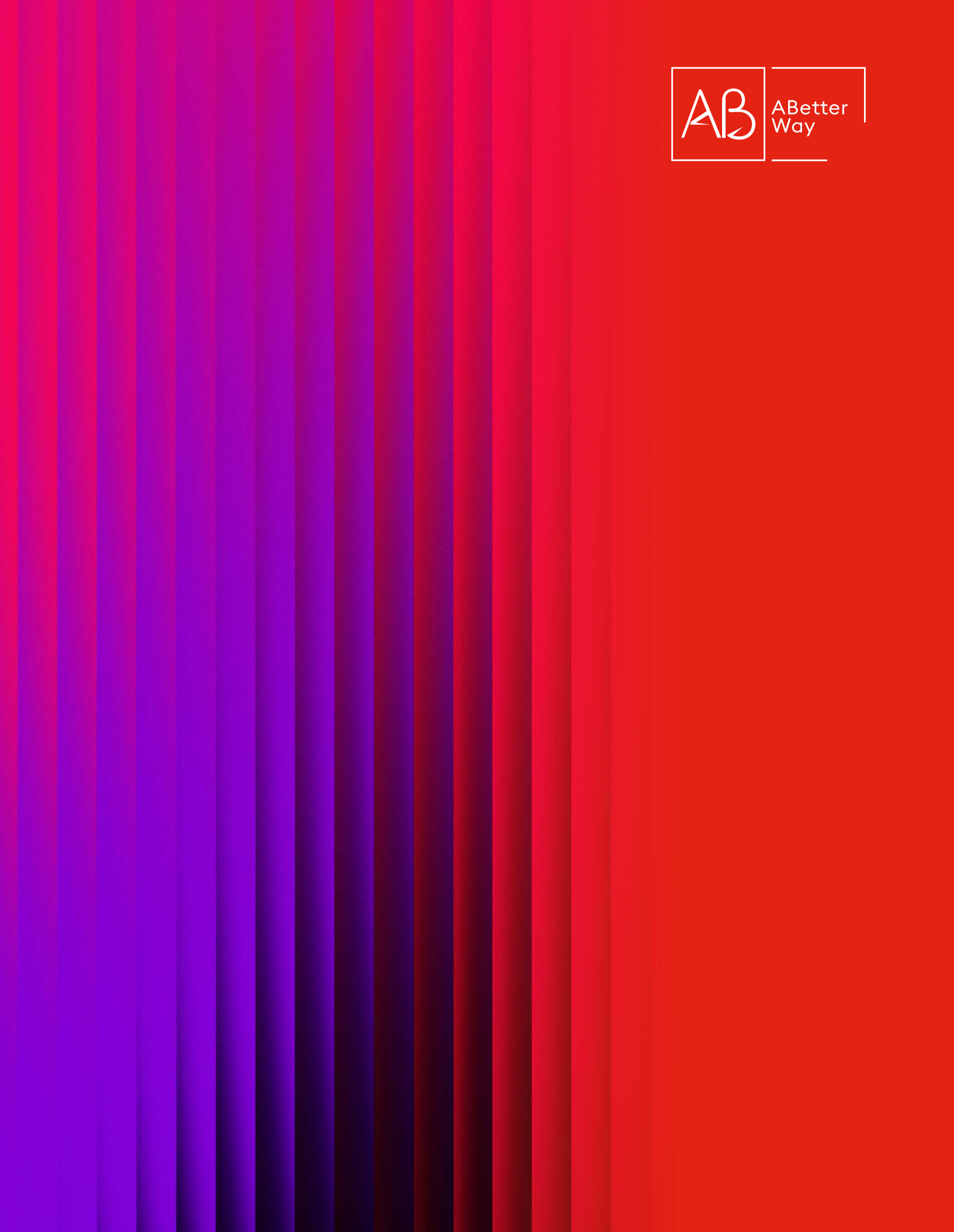
The company helps partners meet today's performance needs while supporting long-term sustainability goals. Globally, AB employs more than 1,500 people across 22 countries, with primary engineering and manufacturing operations based in Orzinuovi, Italy.

Ready to power
your next data center?

Let’s design your ECOMAX®-powered site and cut years off your critical path.

Contact us to evaluate how ECOMAX® modular power plants can deliver reliable, high-efficiency power, tailored directly to your next project.

info@gruppoab.com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