

LVSC according to IEC-PAS 80005-3 Old Harbour Reykjavík

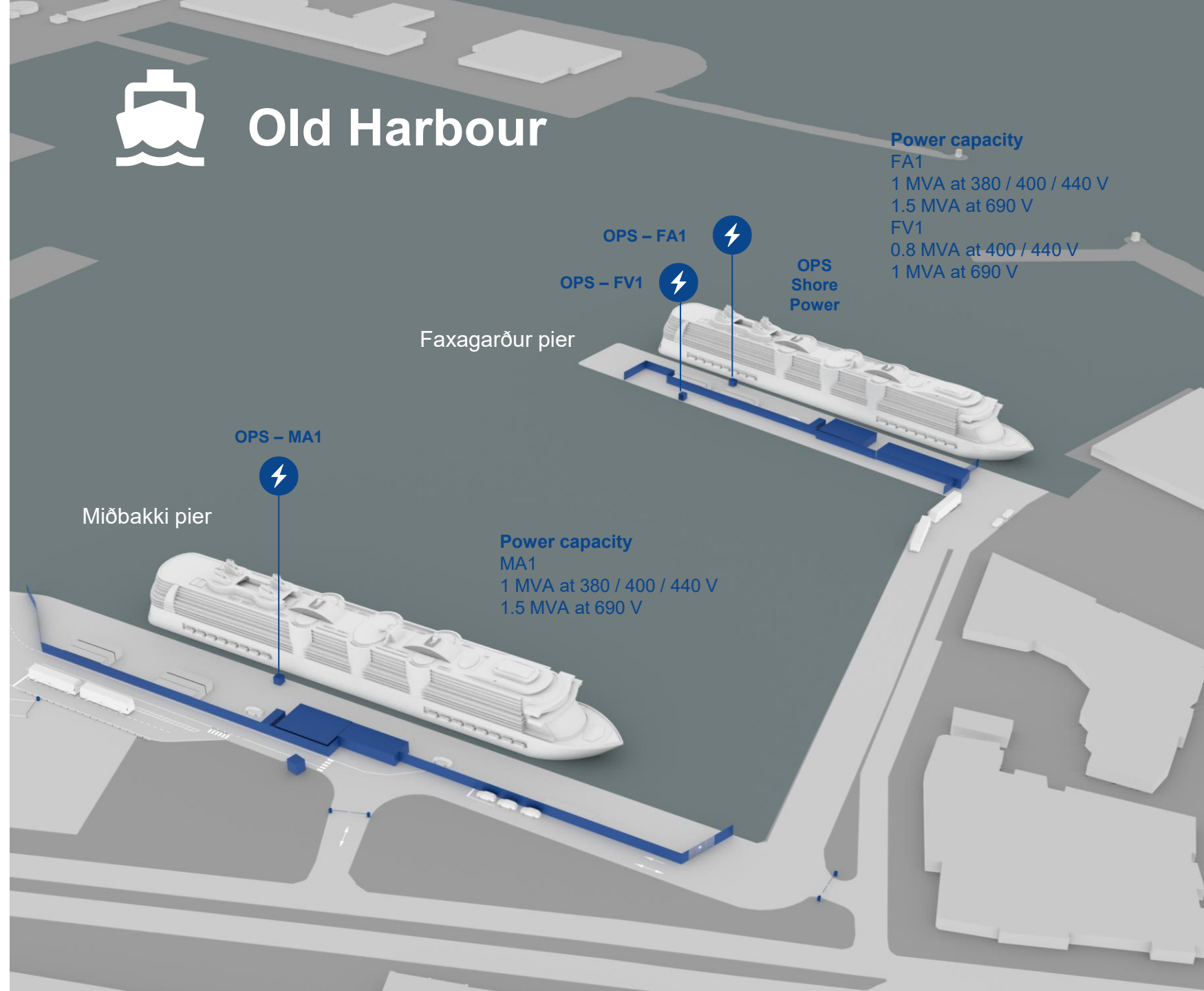
Faxaflóahafnir (FFH) requires all vessels to connect to shore power where a shore connection is available.

Ships at Faxagarður or Miðbakki pier to connect to the available Low Voltage Shore Connection (LVSC).

The purpose of the LVSC system is to provide a safe, reliable and sustainable power supply to ships, supporting efficient port operations and reduced emissions.



Old Harbour



Faxagarður Pier

Faxagarður is located in the Old Harbour in Reykjavík, provides shore power in accordance with IEC PAS 80005-3.

First Ship Connected to Shore Power – September 2023

Voltage and frequency options:

380 / 400 V, 50 Hz

440 V, 60 Hz

690 V, 50 or 60 Hz

Two shore connection points

FA1: 4 × 350 A plugs

FV1: 3 × 350 A plugs

Cable management system: ZINUS Shore Power Compact 215/115

Integrated Kirk Key safety system

Power capacity

FA1:

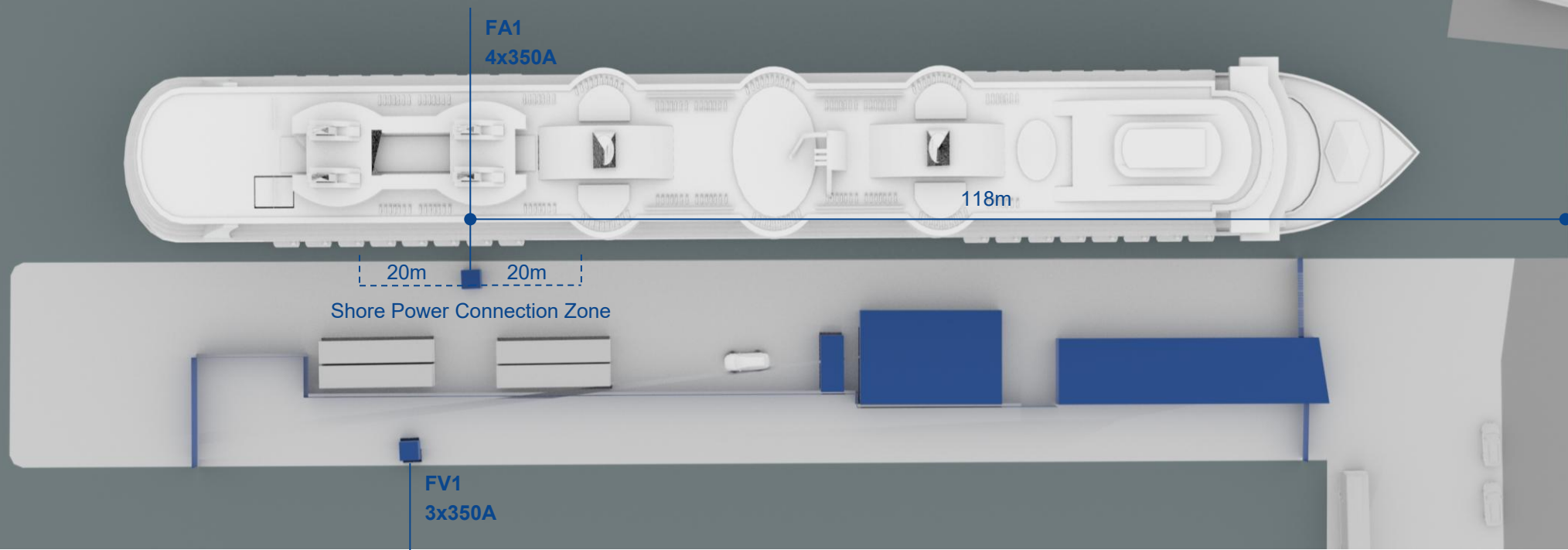
1 MVA at 380 / 400 / 440 V

1.5 MVA at 690 V

FV1:

0.8 MVA at 400 / 440 V

1 MVA at 690 V



Miðbakki Pier

Miðbakki is located in the Old Harbour in Reykjavík, provides shore power in accordance with IEC PAS 80005-3. Shore power available since 16 May 2024

Voltage and frequency options:

380 / 400 V, 50 Hz

440 V, 60 Hz

690 V, 50 or 60 Hz

Connection infrastructure

One shore connection point

MA1: 4 × 350 A plugs

Cable management system: ZINUS Shore Power Compact 215/115

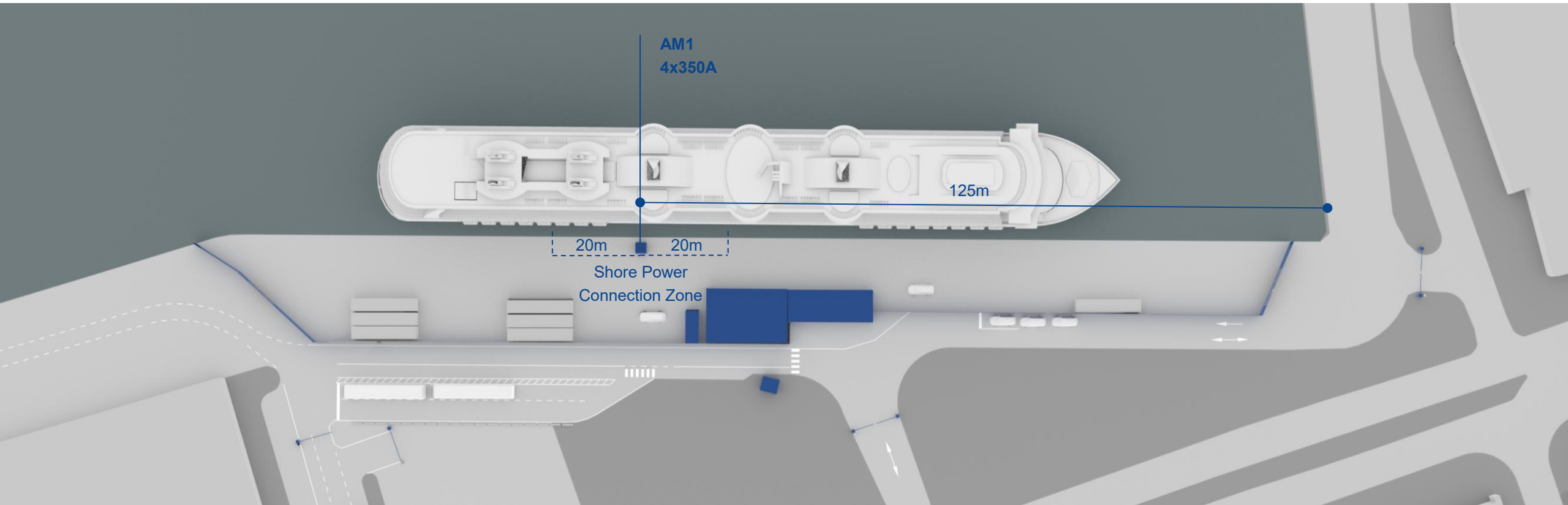
Integrated Kirk Key safety system

Power capacity

MA1:

1 MVA at 380 / 400 / 440 V

1.5 MVA at 690 V



Cable Management System (CMS)

Faxaflóahafnir provides Zinus Shore Power Compact unit (ZPP115/215) for ship-to shore connection.

Each ZPP unit equipped with two cables. Therefore, two units are required when three or four cables are needed.

In accordance with IEC PAS 80005-3:2014, all shore connectors have an electrical interlock through pilot pins 1 and 3. Without this safety circuit intact, it is impossible to energize the system.

Additional requirements:

- A system is required onboard the ship to safely bring cables onboard
- All sharp edges that may damage cables must be protected with covers or similar solutions



Picture 3 Zinus Shore Power Compact ZPP215



Picture 4 Proconnect 3PX5 350A



Interlock
Pilot Pin 1 & 3

Picture 5 Interlock pilot pin 1 & 3

On board connector system

Proconect 3PX5 plug is compatible with:

- Proconect 3PX5 male (X5DM315-LV70)
- Cavotec 420A male (PC5-WX04-15024)



Proconect
Type 3PX5
Ref X5DM315-LV70
420A 690VAC 50/60Hz

Cavotec 420A
Code: PC5-WX04-15024
Amp: Max 420A / Rec 420A
Serial: PC-20160842

Important notice

All information regarding vessel service requirements, including requests for shore power, must be submitted no later than **five (5) days prior to arrival in Reykjavík.**

Ship agents are requested to include the ship's PIC information in the service request

Further enquiries regarding shore power should be directed to **shorepower@faxafloahafnir.is**

Picture 6 compatible onboard connectors

