

# JTF.08.989: Provision of High and Low Voltage On-shore Power Shore Supply in the South Harbour Region of the Grand Harbour

5 December 2025



**INFRASTRUCTURE**  
MALTA



GOVERNMENT OF MALTA  
MINISTRY FOR TRANSPORT,  
INFRASTRUCTURE AND PUBLIC WORKS



# Onshore Power Supply (OPS)



Allows ships at port to turn off onboard fossil fuelled engines and draw power from shore side electrical grid



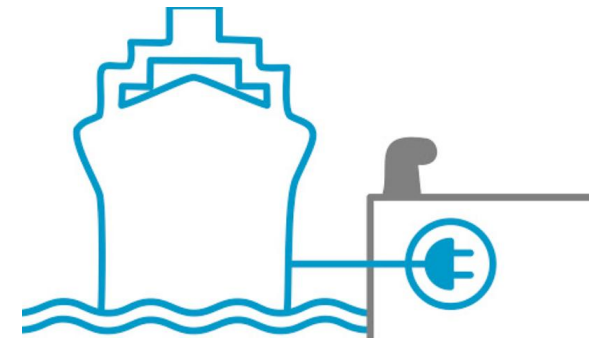
By plugging into shore power, ships reduce emissions, noise and vibration in port areas



OPS systems are based on technical standards for safety and compatibility



Ongoing technical innovation



# Why is OPS Important in the EU?



## Environment:

Fossil fuel powered ships are a significant source of emissions

OPS practically eliminates ship emissions in port

Carbon footprint significantly reduced through use of electricity



## Health:

Reduced NO<sub>x</sub>, SO<sub>x</sub>, particulate matter and noise in port

Cleaner air important for ports such as Valletta surrounded by cities

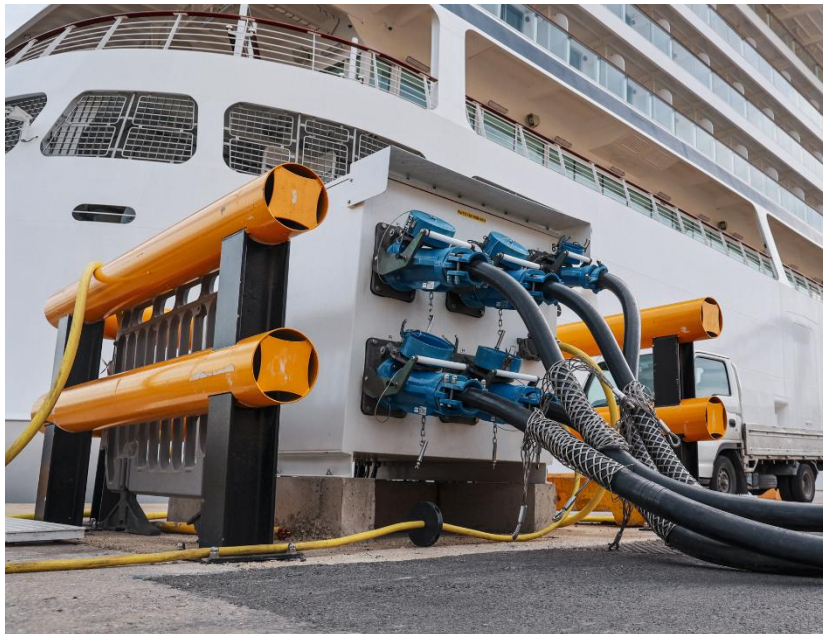


## Regulatory:

Alternative Fuels Infrastructure Directive (AFID) 2014/94/EU

FuelEU and AFIR: 2030 target for Cruise, Container and RoRo ships

# PORT OF VALLETTA OPS PROJECTS

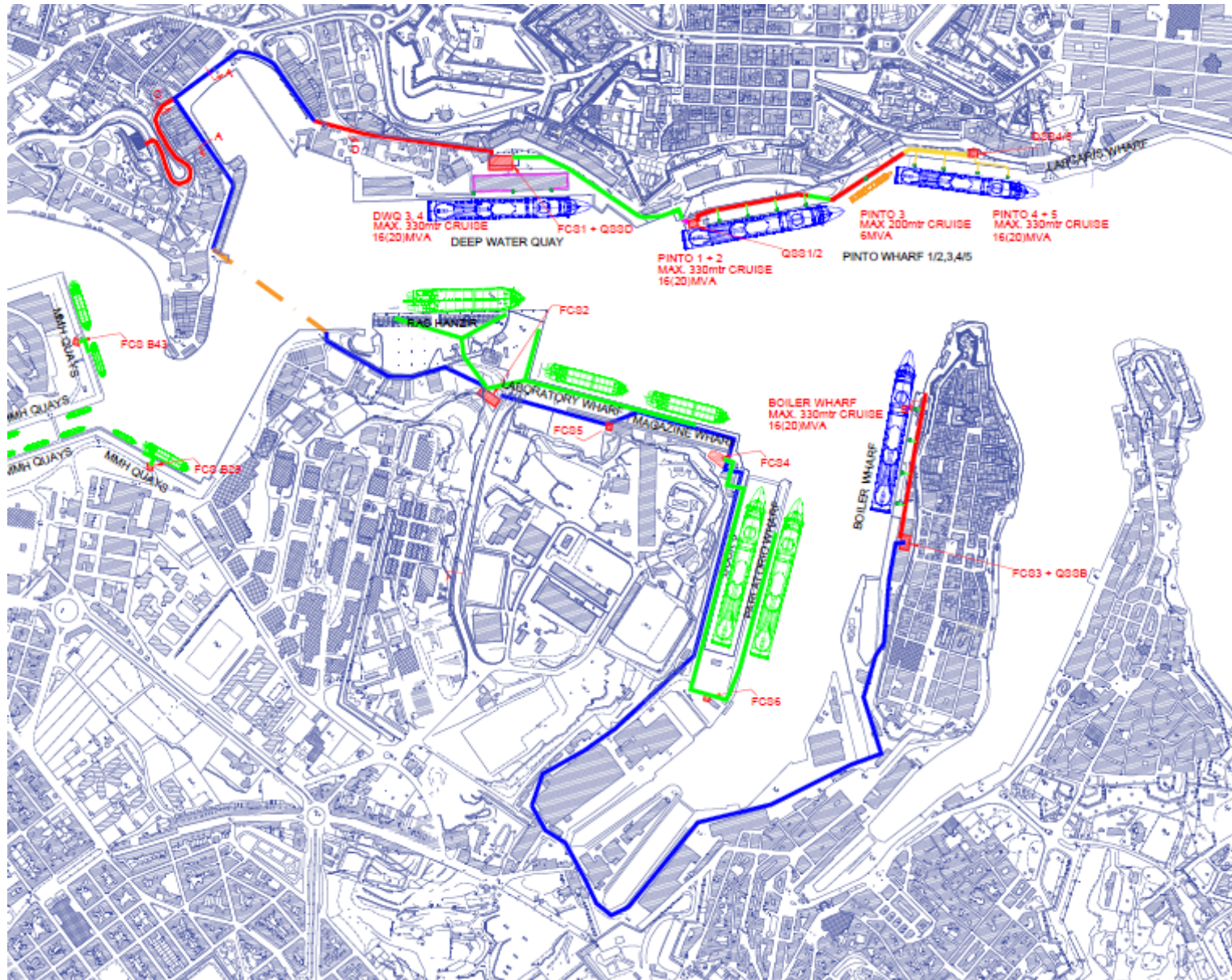


- **OPS North Harbour Region and Boiler Wharf**
- Target ships: Cruise Liners in operation
- Implementation: 2020-2024
- Operational
- Co-financed through Connecting Europe Facility (CEF) ✓
- **OPS South Harbour Region**
- Target ships: RoRo and General Ships (Operational)
- Cruise, Container and General Ships (in Dock)
- Envisaged Completion: 2026
- In-progress
- Co-financed through Just Transition Facility (JTF), CEF and national funding



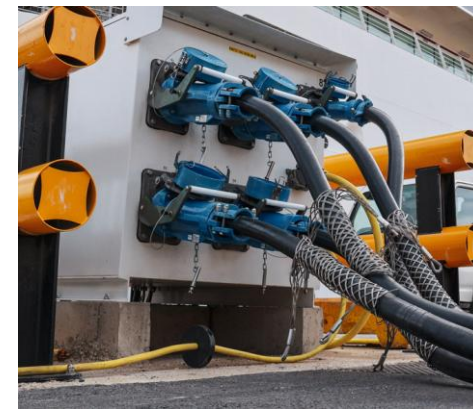
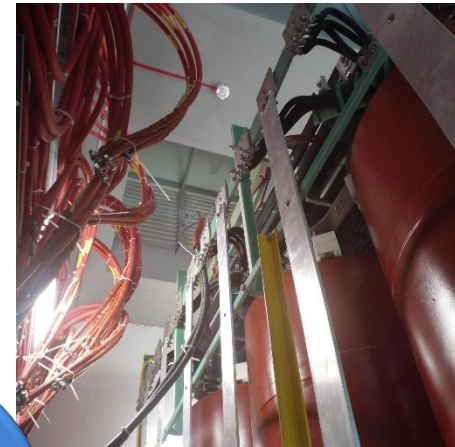
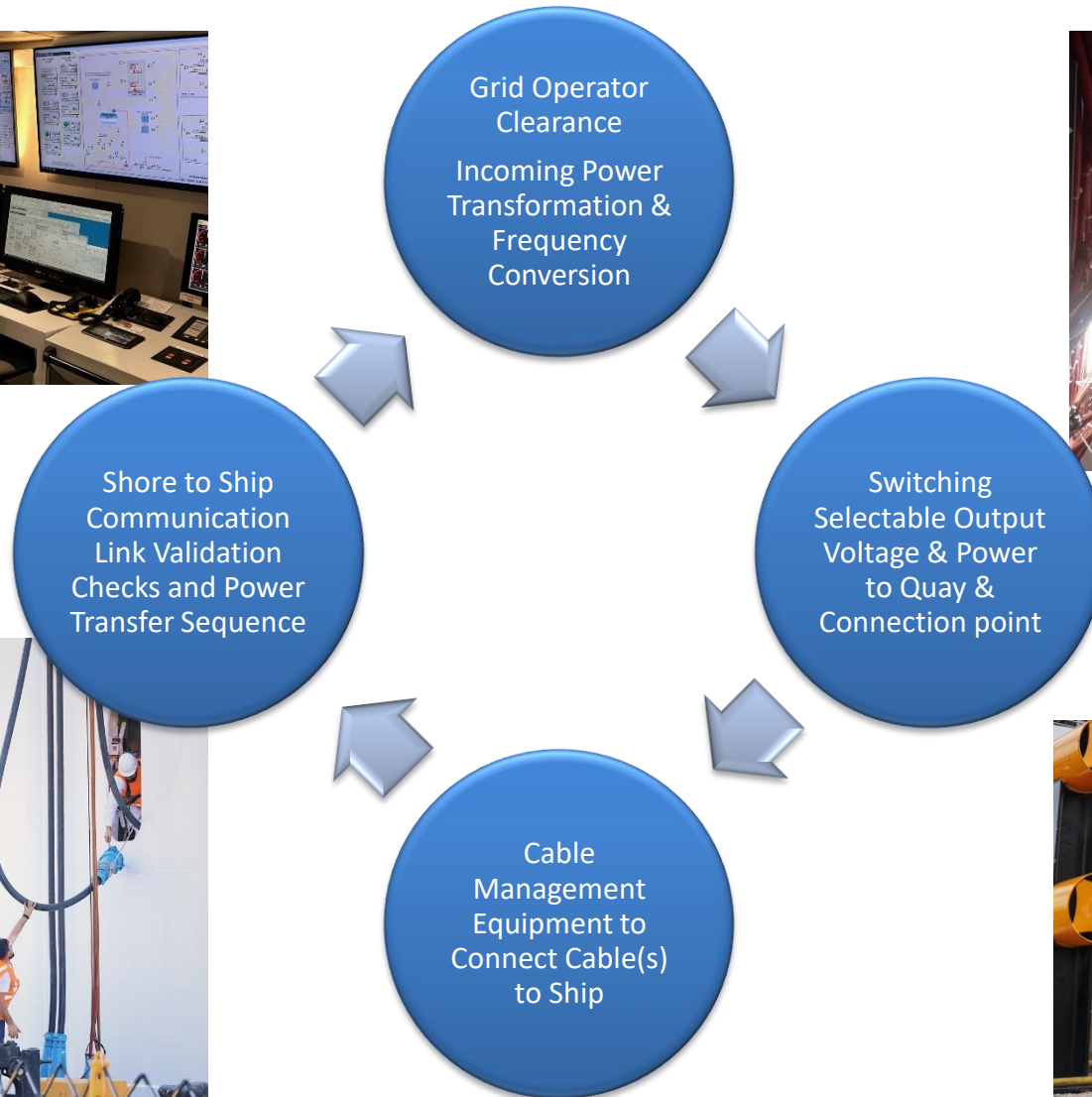


# PORT OF VALLETTA OPS SYSTEM





# HOW OPS WORKS



# BUDGET – SOUTH HARBOUR PROJECT

€43.66m total budget funded as follows:

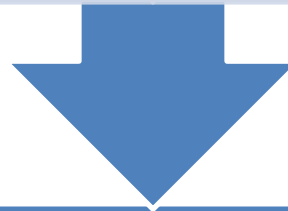
**€23.39m through JTF Grant plus**

**€5.25m through National Funds**

Civil works and equipment at Palumbo & MMH

**€15.0m through CEF Grant**

Equipment at Ras Hanzir, Magazine and Laboratory  
Wharves



Clear demarcation both financially and in  
terms of physical works

# PROJECT OBJECTIVES & DELIVERABLES



## Target ships:

Ro-Ro

Container

General Cargo

Cruise



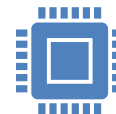
## Quays: 8

Ras Hanzir

Laboratory &  
Magazine wharves

MMH Quay 2,  
Quay 5 and Dock  
No. 7

Palumbo Parlatorio  
Wharf & Dock No. 6



## Buildings: 4 Frequency Control Stations & 2 Switch Rooms

Ras Hanzir Lab &  
Magazine Wharves :  
FCS2 and FCS5

Palumbo: FCS4 and  
FCS6

MMH: FCS B29 and FCS  
B43



# PROJECT OBJECTIVES & DELIVERABLES



Power Delivery to Ships 36 MVA



Connections Points

- 7 at Palumbo (through JTF)
- 17 at MMH (through JTF)
- 3 at Ras Hanzir (through CEF)
- 3 at Laboratory Wharf (through CEF)
- 3 at Magazine Wharf (through CEF)



Cable management Mobile & fixed cable connections

# PROJECT WORKS BEING CARRIED OUT



Design



Equipment selection and ordering



New frequency converter buildings' construction



Existing building restoration and re-purposing



Earthing of buildings



Rock Stabilisation



Underground cable infrastructure duck banks

# FREQUENCY CONVERTER BUILDINGS



**FSC6**



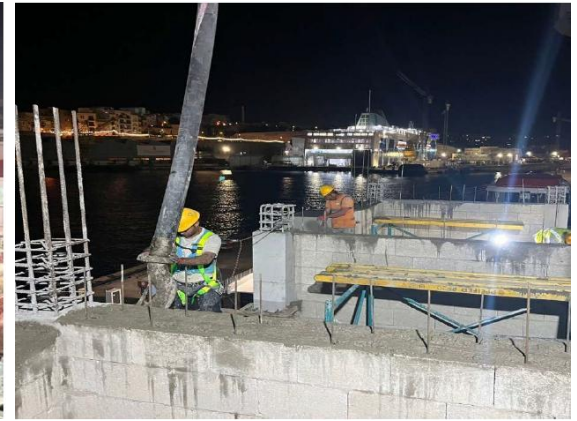
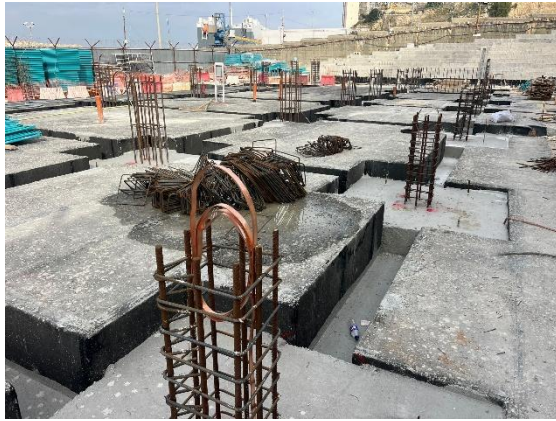
**FSC2**



**FSC4**



# NEW BUILDING WORKS



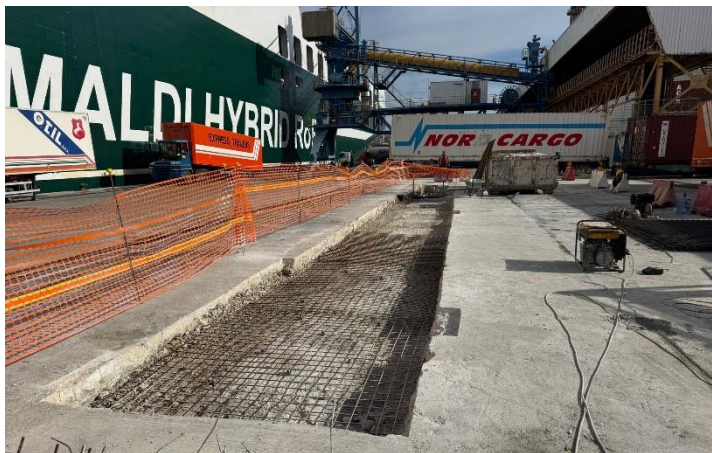


# ROCK STABILISATION & RESTORATION WORKS





# UNDERGROUND INFRASTRUCTURE WORKS



# QUESTIONS AND COMMENTS



THANK YOU



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Thank You