

SHOREPOWER

# A case study: Shore Power for Valetta port, Malta

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# Malta Takes Charge to preserve air quality and attractiveness of his historic city

Valletta welcomes every year about **1Million** ship-bound tourists!

Objective: reduce ships emissions in port by **90%**

An **EU funded** initiative

Driven by Infrastructure Malta



# The first shore power system for cruise in the Mediterranean!

## Provision of Shore Power at 5 quays

- Deep Water Quay
- Pinto 1 / 2
- Pinto 3
- Pinto 4 / 5
- Boiler Wharf Senglea



## A Partnership between Cavotec & Nidec

### Shore equipment (NIDEC)

Primary CB on shore (connection to the Power Utility Grid)  
Shore Step-down transformer  
Frequency converter  
Secondary CB on shore (distribution )

### Interface equipment (NIDEC/CAVOTEC)

Socket outlet Junction Box (shore based)  
Cable management system (shore based)



# Cavotec innovative PowerMove selected to meet the specific requirements of Valetta

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- Fit vessel high power & hot temperature
  - Max power at 45°C – 11 kV – 24 MVA
  - Max power at 45°C – 6,6 kV – 14 MVA
- Match the berths design & environmental constraints
  - Connect even when vessel hatch is below quay line
  - Connect vessels over the entire berth length: PowerMove for deepWater quay provide record length, spanning more than 55m
- Flexibility & safety
  - A foldable and mobile system with minimized height
  - Include ergonomic remote-controlled arm
  - System fully compliant with IEC 80005:1 and DNV GL certified HV cables



# Thank you for your attention



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