

KOPER

KILLINI

PIRAEUS

LIMASSOL

electrification
in the eastern
Mediterranean

3 EU Member-States

4 Ports

10 Partners

1st Cohesion Funded project in Motorways of the Sea

1.6 m € budget

1st shore power installation in Eastern Mediterranean

About e/emed

e/emed project prepares the ground for the introduction of cold ironing, electric bunkering and hybrid ships across the Eastern Mediterranean Sea Corridor. It is co-funded by the European Union project, aiming at studying all matters related to developing low-carbon, resource-efficient cold ironing infrastructure in Mediterranean ports. The project involves three member states with their respective ports: Greece (Port of Piraeus & Port of Killini), Cyprus (Port of Limassol) and Slovenia (Port of Koper).

e/emed will establish the first operational On-Shore Power connection in Eastern Mediterranean region in the Port of Killini.



Photo Credit: Stelios Koutroumpanos

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partners:



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Co-financed by the European Union
Connecting Europe Facility

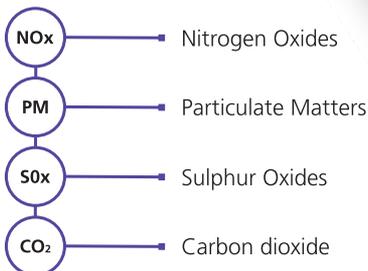
About cold-ironing

When a ship enters a port and stays at berth, her main engines are shut-down and the power demands for the services are covered by the auxiliary engines. This creates heavy local air pollution, such as Nitrogen Oxides, Particulate Matters and has serious social impact - especially in ports next to urban areas. Cold ironing, or on-shore power supply, is the process of providing shore side electric power to a ship at berth while her main and auxiliary engines are turned off and become "cold".

Project activities

- To formulate a solid regulatory framework for the use of electricity as marine fuel in the Eastern Mediterranean
- To define the technical requirements for cold ironing installations in ports
- To specify the technical requirements for shipping electrification
- To develop sustainable financing instruments for development of ports/vessels infrastructure
- To install the first onshore power supply system in the Eastern Mediterranean area, at Killini port (Greece)

our future
charged 



Benefits

- Minimisation of polluting emissions in the port surrounding areas
- Amelioration of quality of life with tangible impact on public health
- Blending clean fuels & the renewable energy with the shipping sector
- Alignment with the EU policies and International Requirements
- Improvement of port competitiveness
- Port preparation for accommodating hybrid zero-emission ships
- Introducing Sea mobility as key insular policy

Killini pilot shore power installation

- 1st Cold ironing Pilot implementation in East Med
- Serving Zakynthos & Kefallonia islands
- Supply 1 berthing position
- 500kVA needs during port stay
- 4 Shore connections projected
- 1 electric bunkering position projected