The major step of implementation: the ALFION-INFRA project

Upgrade of Energy Infrastructure in the Port of Igoumenitsa



ALFION-INFRA

Co-financed by the European Union
Connecting Europe Facility

Project Details

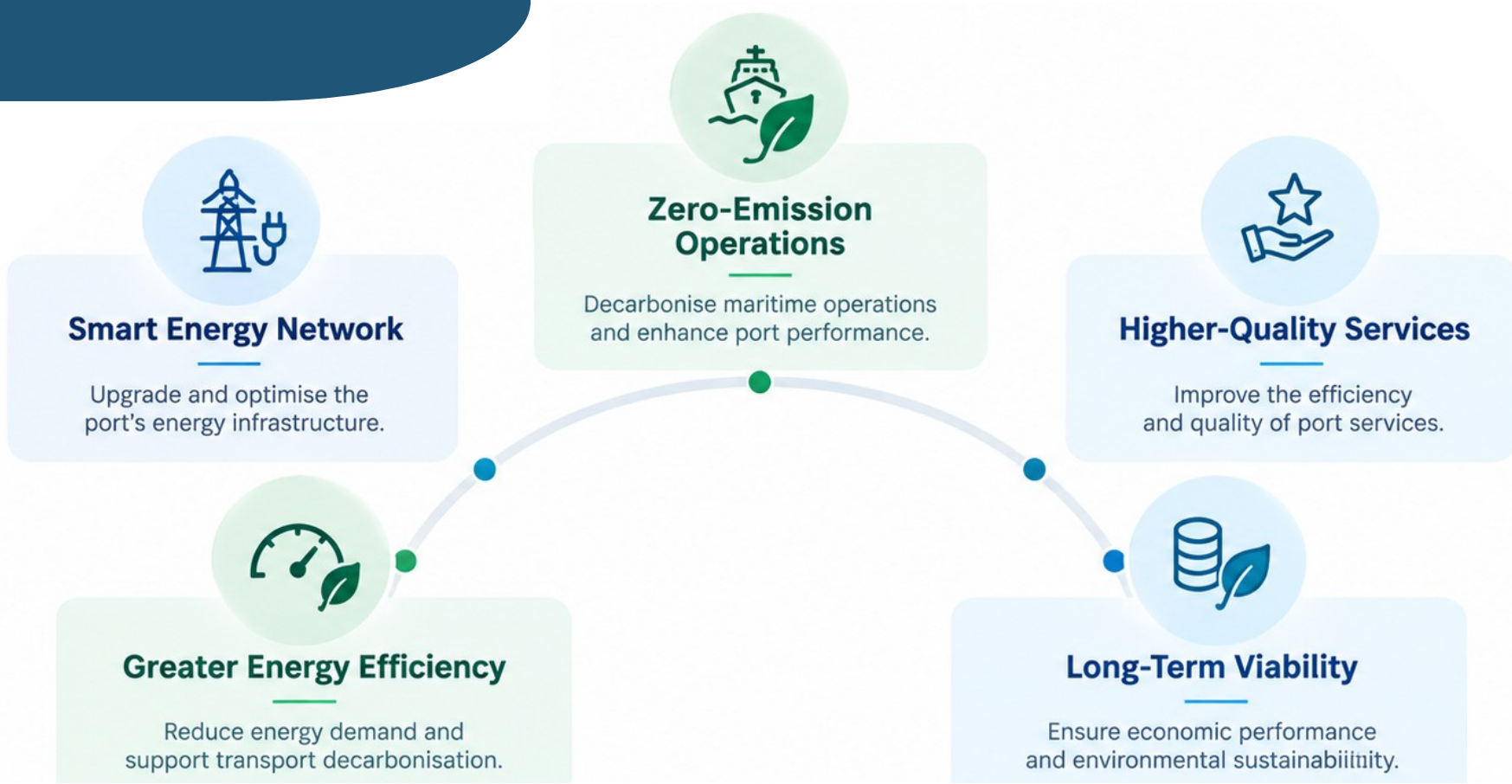
- **Project Name**
  - ✓ Upgrade of Energy Infrastructure in the Port of Igoumenitsa
- **Partners**
  - ✓ 6 partners
  - ✓ IGOUMENITSA PORT AUTHORITY S.A.
  - ✓ HEDNO, NTUA, PROTASIS, HYDRUS, WMG
- **Duration**
  - ✓ 01/10/2023 - 31/12/2026
- **Budget**
  - ✓ € 8.900.000,00 €
    (85% EU funding)
- **Operational Program**
  - ✓ Connecting Europe Facility (CEF)

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Project Objectives

Powering a Zero-Emission and Energy – Efficient Port of Igoumenitsa



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The vision



Transformation of Igoumenitsa Port into an energy hub in Ionian and Adriatic sea. Maximazation of environmental, social and economic benefits

HOW?

Use of Electricity as an AF → Electrification of different types of vessels → Smart Grid Port Operation

The port of Igoumenitsa is the first Greek port implementing Shore Side Electricity (SSE) in full scale meaning a breakthrough stop in its transformation to a greaner and cleaner port.

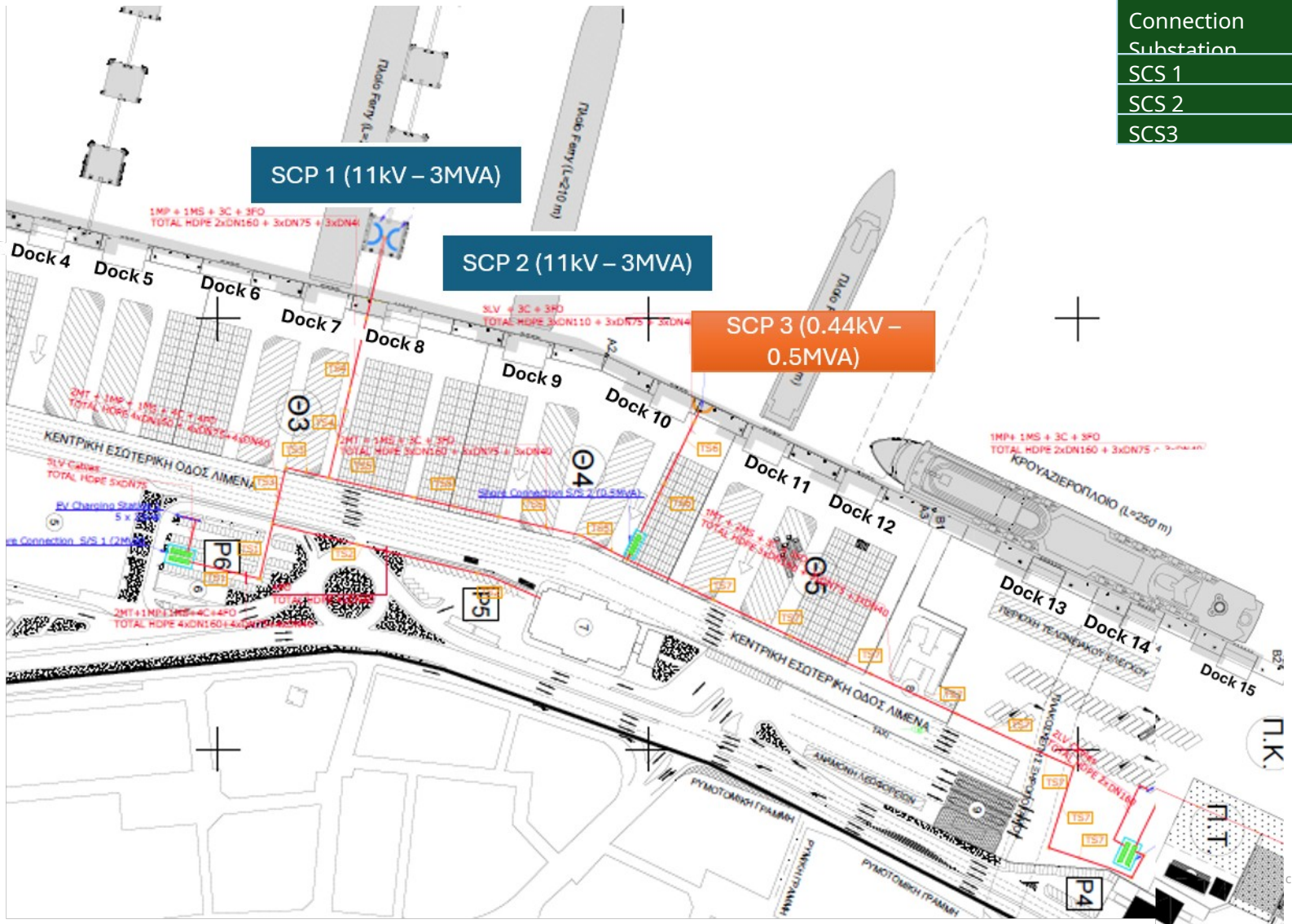
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CONSTRUCTION

3 SSE positions for passenger vessels

Shore Connection Substation	Shore Connection Point	Power (MVA)	Voltage (kV)	Vessel Type
SCS 1	SCP 1	16	11	Ro-Pax
SCS 2	SCP 2	3	11	Ro-Pax
SCS3	SCP3	0.5	11	Ro-Pax

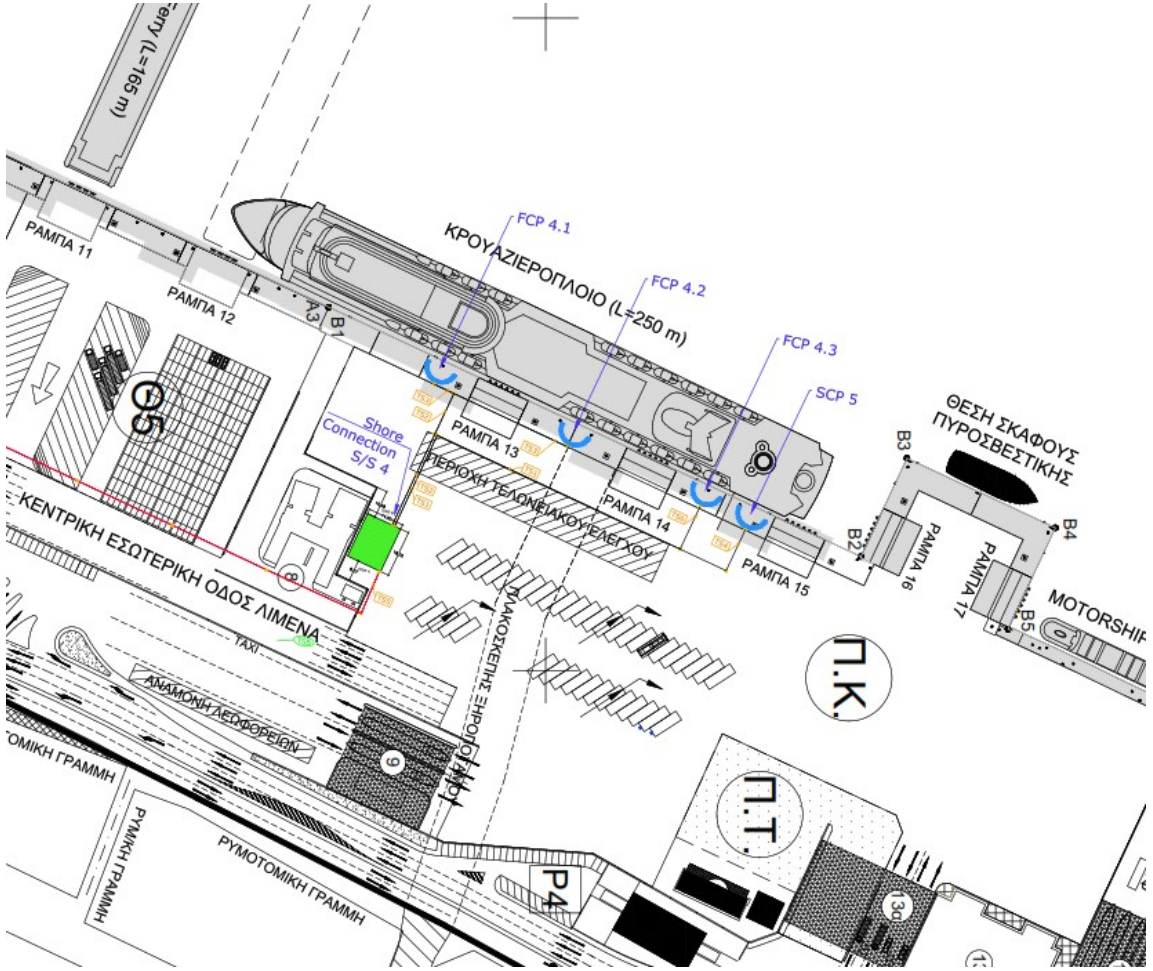


- civil and electrical works
- electromechanical installations
- upgrading of electrical substation
- installation of CMS
- connection to the national electrical grid
- development of EMS
- Commissioning and operational validation

criminal matters.

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1 SSE position for cruise vessels



Shore Connection Substation	Shore Connection Point	Fixed Connection Point	Power (MVA)	Voltage (kV)	Vessel Type
SCS 4	SCP 4	FCP 4.1	16	11	Cruise
		FCP 4.2	16	11	Cruise
		FCP 4.3	16	11	Cruise
	SCP 5	N/A	3	11	Ro-Pax
		FCP 5	3	11	Ro-Pax

- final technical studies – engineering designs
- environmental Impact Assessment (EIA)
- cost-Benefit Analysis

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Project Benefits

Public Health



Emission reduction in port and urban area



Zero emission solutions and RES in the shipping and port sectors





Noise and vibration reduction (elimination) at berth

Port Competitiveness



uality of life and benefits for tourism and trade



Employment

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