POSEIDON

Synthetic methanol for shipping decarbonisation

European Institute for Energy Research by EDF and KIT

Propulsion Of Ships with E-methanol In favour of the Decarbonisation Of Naval transport

Key Facts

Funding Agency
HORIZON EUROPE – CINEA

Project Call
HORIZON-CL5-2022-D3-02

Duration
09/2023 – 08/2027

Coordinator
EIFER

Partners
- EDF
- Karlsruhe Institute for Technology (KIT)
- RINA
- Fundación Valenciaport
- Aristotle University of Thessaloniki
- ICODOS
- Fincantieri
- Isotta Fraschini Motori – IFM
- Winterthur Gas & Diesel – WinGD
- Steinbeis Innovation GmbH
- Global Omnium
- Port of Thessaloniki – ThPA S.A.
- CERTH
- CNR-STEMS
- Swedish Maritime Administration
- Inventors
- CAO Hellas
- AVEBIOM

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Funded by the European Union

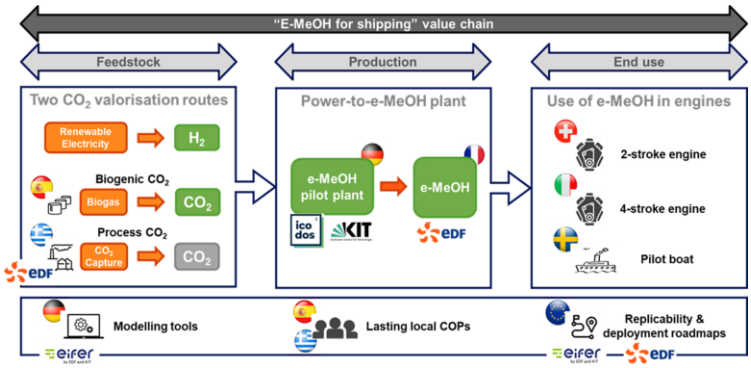
Project Objectives

POSEIDON aims at demonstrating the use of e-methanol for the decarbonization of the shipping sector along the value chain steps and at implementing local value chains in two major European ports:

- Port of Valencia (ES): use of biogenic CO_2 coming from the biogas plant of a wastewater treatment plant
- Port of Thessaloniki (GR): use of industrial CO_2 coming from lime production plants

Local communities of practice will be established in the two ports to bring local stakeholders together to strengthen collaborations, help them share their vision and raise awareness of the potential and benefits of renewable e-fuels.

An ICODOS´innovative synthetic methanol production technology will be demonstrated in EDF's "Power-to-X" test platform and tested in 2-stroke and 4-stroke engines and in a pilot boat.



EIFER's Contribution

- Leader of the work package dedicated to the identification of value chain requirements / barriers and creation of local communities of practice (COPs)
- Responsible for the value chain modelling and replication tools
- The expected outcomes are having scientific impact and economic/technological impact, in detail:
  - Complete portfolio of value chain and key stakeholders
  - Develop a maritime decarbonisation roadmap
  - Position the project with regard to other alternatives

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