

The EU Islands Facility NESOI is pleased to introduce the clean energy projects receiving its support:

GHEKO

Green Hydrogen Ecosystem on Kos Island

Country  GREECE	Island KOS	Project promoter Municipality of Kos	Sector Hydrogen	Project value 2.5 M€
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“ This first-of-a-kind project includes the first refuelling hydrogen station in Greece together with the first hydrogen vehicles. ”

What is the project about?

- The project concerns the creation of a hydrogen ecosystem in Kos Island, centred at the Mastichari port.
- The hydrogen will be originated by the excess electricity production from local wind farms (that otherwise would be curtailed).
- An H2 refuelling station suitable for municipal vehicles and ferries will be placed in a strategic location.

How will the EU Islands Facility NESOI support the project?

- Assessment of the key project sizing drivers
- Identification of suitable technological options given existing project sizing requirements
- Study by a civil engineering company regarding the condition of the relevant marine structures at the site and the estimated installation cost of a project to the breakwater
- Definition of the required environmental permitting procedures
- Cost Benefit analysis and socio economic and environmental impact evaluation
- Definition of the technical, economic and financial, fiscal project inputs
- Risk analysis and identification of available mitigation strategies
- Assessment of existing procurement options (e.g. tender, PPP, etc.)
- Financial modelling and identification of target scenario
- Identification of financing/funding options
- Action plan and identification of project monitoring procedures



Wind turbines on Kos island (Source: sani)