# H2PORTS

# IMPLEMENTING FUEL CELLS AND HYDROGEN TECHNOLOGIES IN PORTS



https://h2ports.eu/

### **QUANTITATIVE TARGETS AND STATUS**

#### Consorcio, Enagás SA, Grimaldi Euromed SpA, Hyster-Yale Nederland BV, Mediterranean Shipping Company Terminal Valencias SA, Sociedad Española de Carburos Metálicos SA, Università degli Studi di Napoli Parthenope, Università degli Studi di

of H<sub>2</sub> in port environments.

as fuel for vessels.

**PROJECT AND OBJECTIVES** 

start in summer 2023.

aroup.

H2Ports will demonstrate and validate two

innovative solutions based on fuel cell tech-

nologies. A reach stacker and a terminal tractor

will be tested on a daily basis during 2 years of

real operational activities at the Port of Valen-

cia, and a mobile hydrogen refuelling station

(HRS) designed and built during the project

will provide the required hydrogen. All three

elements are currently in advanced stages of

building, and the piloting period is planned to

The project aims to disseminate H<sub>a</sub> tech-

nologies to the ports and maritime sector.

This goal has been accomplished through

the organisation of the stakeholder advisory

H2Ports will gather information on the use

It will gather information on the use of H<sub>a</sub>

**NON-OUANTITATIVE OBJECTIVES** 

# PROGRESS AND MAIN ACHIEVEMENTS

H2Ports has completed the HRS construction phase and is currently undertaking safety testing prior to the start of the operative period.

The fuel cell Reach Stacker is at a very advanced construction stage. The fuel cell's commissioning process has started, and the testing phase has been scheduled, prior to the delivery of the machine to the Port of Valencia.

The design and component selection of the terminal tractor has been completed; it is entering the final stage of the construction process, and the commissioning of the machine, the safety tests and CE certification will take place before its delivery to the Port of Valencia.

# **FUTURE STEPS AND PLANS**

The pilot period was expected to start in August 2023.



Target source	Parameter	Unit	Target	Target achieved?
Project's own objectives	HRS daily capacity	kg/day	60	
	Reach stacker vehicle power	kW	90	
	Vehicle power	kW	70	





