

**EUNICE**  
ENERGY GROUP



REGION OF CRETE  
ΠΕΡΙΦΕΡΕΙΑ ΚΡΗΤΗΣ



POLITECNICO  
DI TORINO



**CERTH**  
CENTRE FOR  
RESEARCH & TECHNOLOGY  
HELLAS

**SOLMAR**



# CRAVE H<sub>2</sub>



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• Crete Aegean Hydrogen Valley -  
CRAVE H2



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# CRAVE H<sub>2</sub>

## Crete-Aegean Hydrogen Valley

# Vision

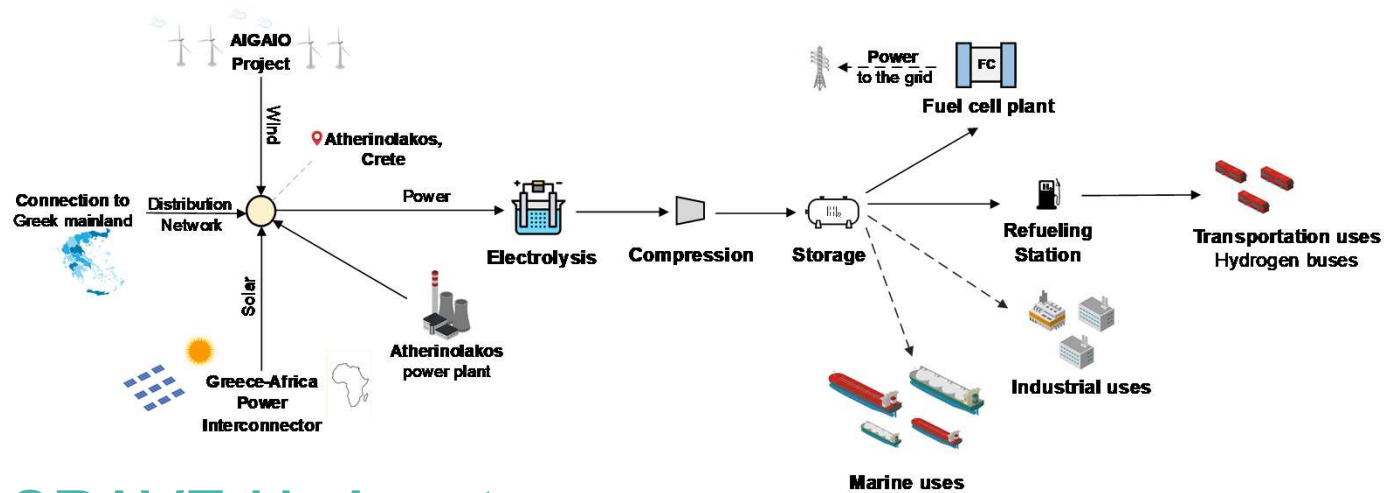
CRAVE-H<sub>2</sub> constitutes a substantial financial investment and covers all necessary steps in the hydrogen value chain, from production (securing dedicated renewable electricity production from the 582 MW Aigaio project) to subsequent high-pressure storage & distribution to a hydrogen filling station and other potential off-takers. The Cretan-Aegean hydrogen valley has already been initiated and bears the full support of the regional authorities that pursue the transition to a "hydrogen economy".



# Objectives

The scope CRAVE-H<sub>2</sub> is to develop, deploy and demonstrate a hydrogen valley, with the objective of also increasing its capacity in the future.

- Create the 1<sup>st</sup> Green Hydrogen hub in Greece at the Atherinolakos Area
- Initiate the offtake for Green electricity imports from the GAP Interconnector



# CRAVE-H<sub>2</sub> Assets

1

Electrolyser with max. production of 500 tons/year H<sub>2</sub>

2

PEM FC: 0.4 MWeI, which will consume 100 tons of H<sub>2</sub> and act as powerful daily/weekly energy storage tool

3

Hydrogen buses and additional vehicles

4

Re-use of water produced from the FC to partially cover the electrolyser requirements and increase circularity

5

All required AC/DC rectifier and DC/AC converters

6

A painstaking study of potential further H<sub>2</sub> uses in power plants, industry and maritime applications across the island of Crete