

Investing in the Future of Energy

BLUE MED PROGRAM OVERVIEW

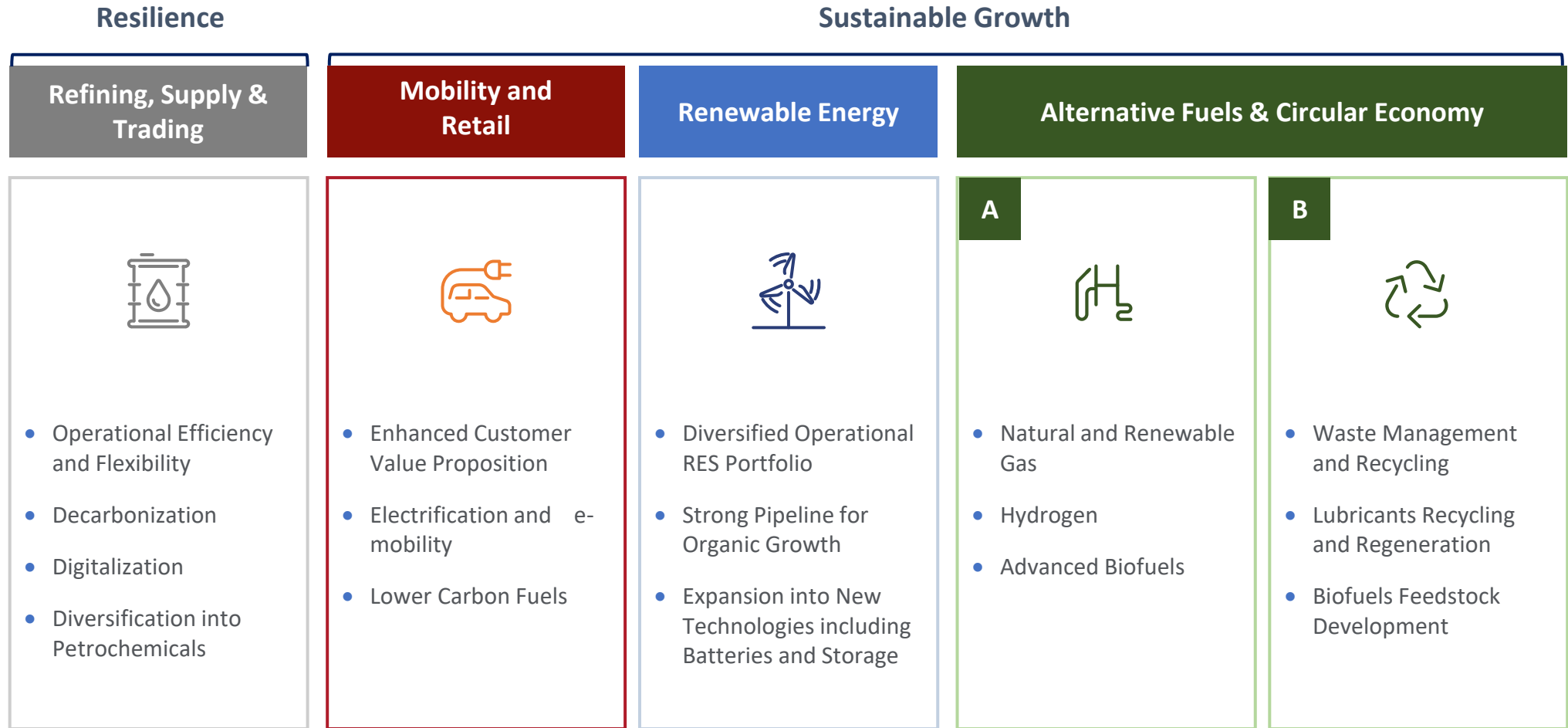


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MOH – Strategic Pillars Guiding our Path Forward

Driving Growth and Change Across a Diverse, Multi-Energy Portfolio

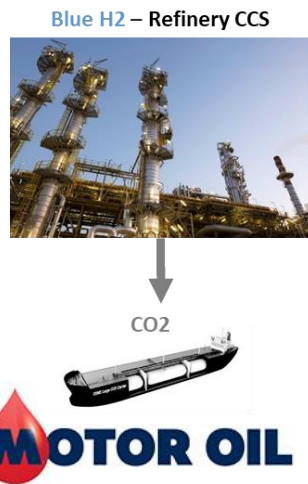


Executing One of the Largest Energy Transition Programs in the Region of >€ 4.0bn by 2030

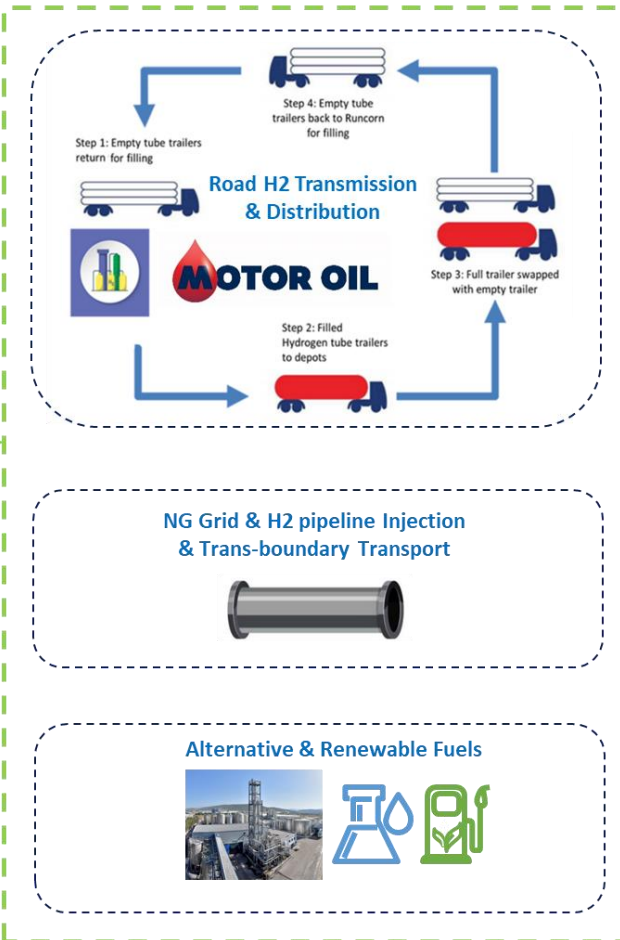
BLUE MED: The Path Towards a Low Carbon Energy Hub in East Med

Phased development of flexible, scalable and cost advantaged infrastructure for the production and distribution of Renewable & Ultra-low Carbon Hydrogen for use in industry and transport

PRODUCTION



CONVERSION & DISTRIBUTION



UTILIZATION



Investment*
> €320 m.

*Production - Supply - Distribution
excluding H2 utilization projects

H2 Product
~60,000 t/y

to refinery
~34,000 t/y

to customers
~26,000 t/y

**Decarbonization of
Industry and Transport**

Scope-1*
-465,000
t CO2/y

Scope-3*
-80,000
t CO2/y

*Direct avoidance (excl. conversion)

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BLUE MED: The Ecosystem & Value Chain

10 sub-Projects

- 2 Production
- 3 Distribution
- 5 HRS

11 Use Cases

- 4 Industrial Use Cases
- 5 Transport Use cases
- 2 Energy Use Cases

1 H2 Valley

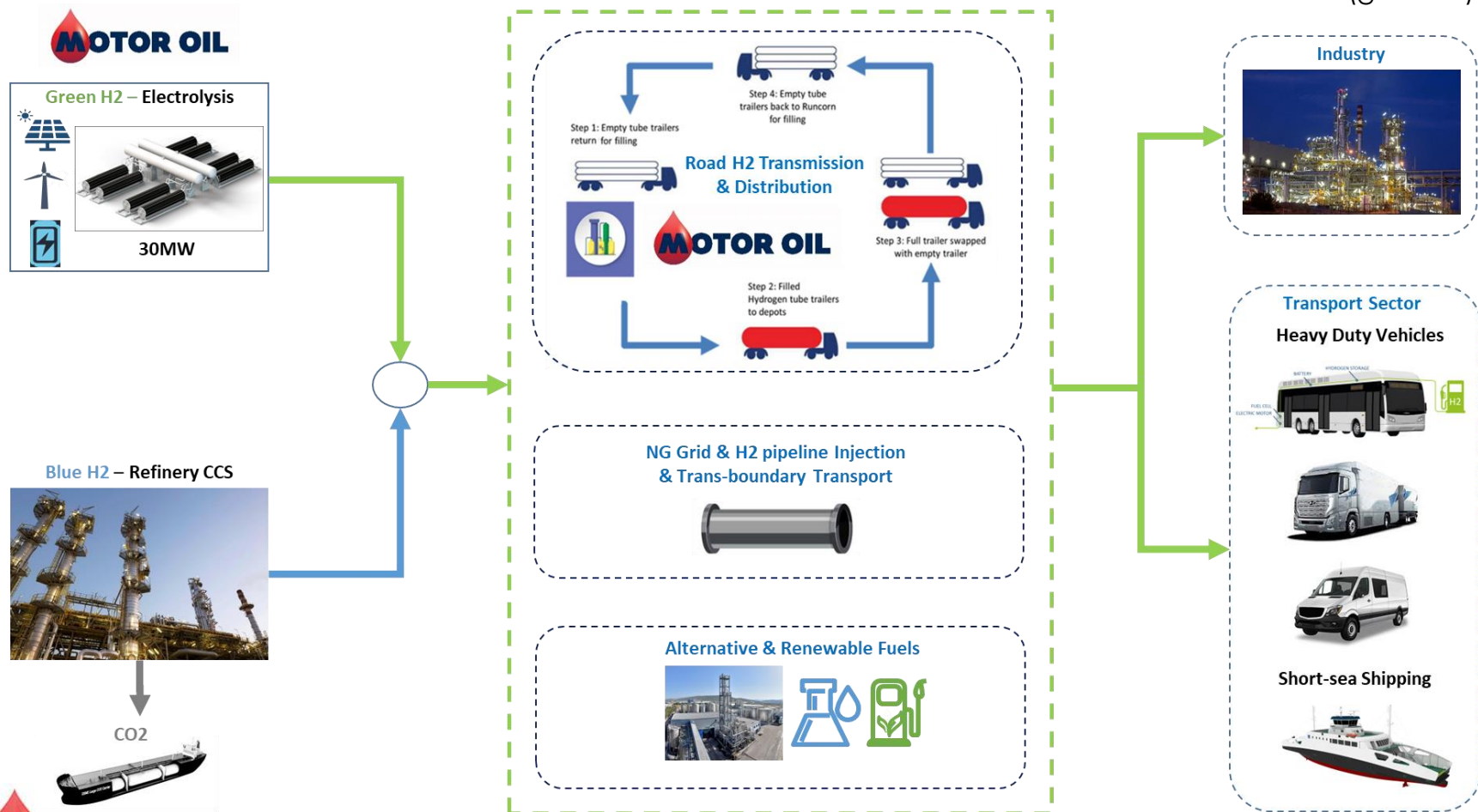
- 26 partners
- 5 Countries
- 4 Pilots

7 Co-Funding Schemes

- 3 Horizon (2 granted/1 evaluat.)
- 2 CEF Transport (granted)
- 1 Innovation fund (in evaluation)
- 1 EIB Loan (granted)

CEEAG Framework*

* Previously IPCEI candidate



Achieve Competitiveness by:

1. Value Chain Integration
2. Value Chain Innovation
3. Renewables Integration
4. Industrial Symbiosis
5. Targeted co-funding
6. Favourable policy framework

Achieve market penetration by:

1. Partnerships
2. Competitiveness & reliability
3. Market uptake incentives

Ongoing Hydrogen Projects & Approved Funding

2024

2024

2025

2026

1. Trailer Filling Terminal

In Implementation



Project TRIERES (HORIZON)

- ✓ First step in creating a hydrogen ecosystem around the refinery (26 partners, 5 countries)

2. Hydrogen Refueling Stations

In Implementation



2 HRS Awarded (CEF Transport)

- ✓ Supporting the development of H2 fuelling stations in Akrata and Corinth (connecting Attica to Italian routes).

3. Electrolyzer 30 MW

In Engineering



Project EPHYRA (HORIZON)

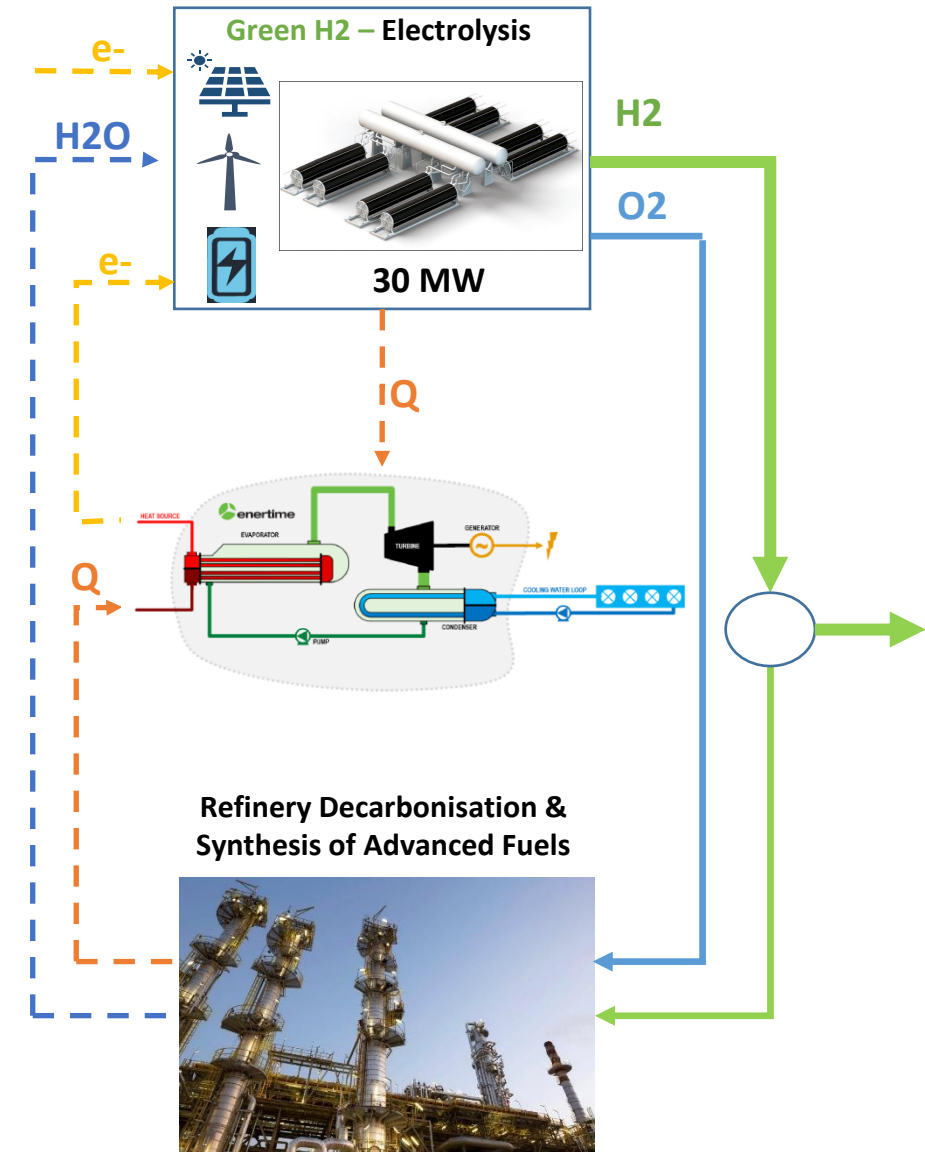
- ✓ The biggest subsidy that Greece has received from Horizon Europe for Energy.
- ✓ Largest electrolyser in SE-Europe

EPHYRA Project – HORIZON 2022

- ✓ **Electrolysis system 30 MW**
- ✓ **Industrial Symbiosis:**
 - ✓ Oxygen use at the refinery
 - ✓ Waste heat recovery for own-harvested energy
 - ✓ Non-fresh water (re-)use
- ✓ **Energy Management & Digital twin of operations**

EPHYRA will demonstrate the integration of a first-of-its kind renewable hydrogen production facility at industrial scale in Greece by employing an improved electrolysis technology at a scale of **30MW** to produce green hydrogen at the Motor Oil Hellas' Refinery.

The project will demonstrate the system's improved integration both within the industrial process plant and with associated renewable energy sources and its reliability of supply at the lowest possible cost of bulk renewable hydrogen.



Thank You

At Motor Oil Group we are moving responsibly towards a sustainable future. Shaping the future of energy.

