



Eni's Hydrogen perspective

The Evolutions of Clean Hydrogen. Perspectives from production to use in mobility and industry

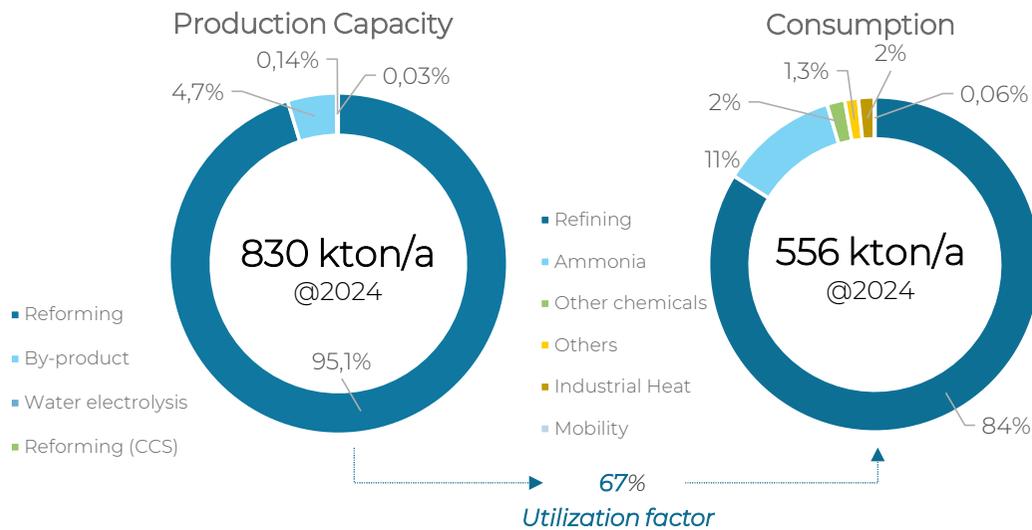
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Refineries are the main hydrogen demand centers in Italy



ITALY IS THE 5th HYDROGEN CONSUMER IN EUROPE



Eni is the main producer and consumer of grey hydrogen in Italy with a production capacity of 350 ktH₂/y

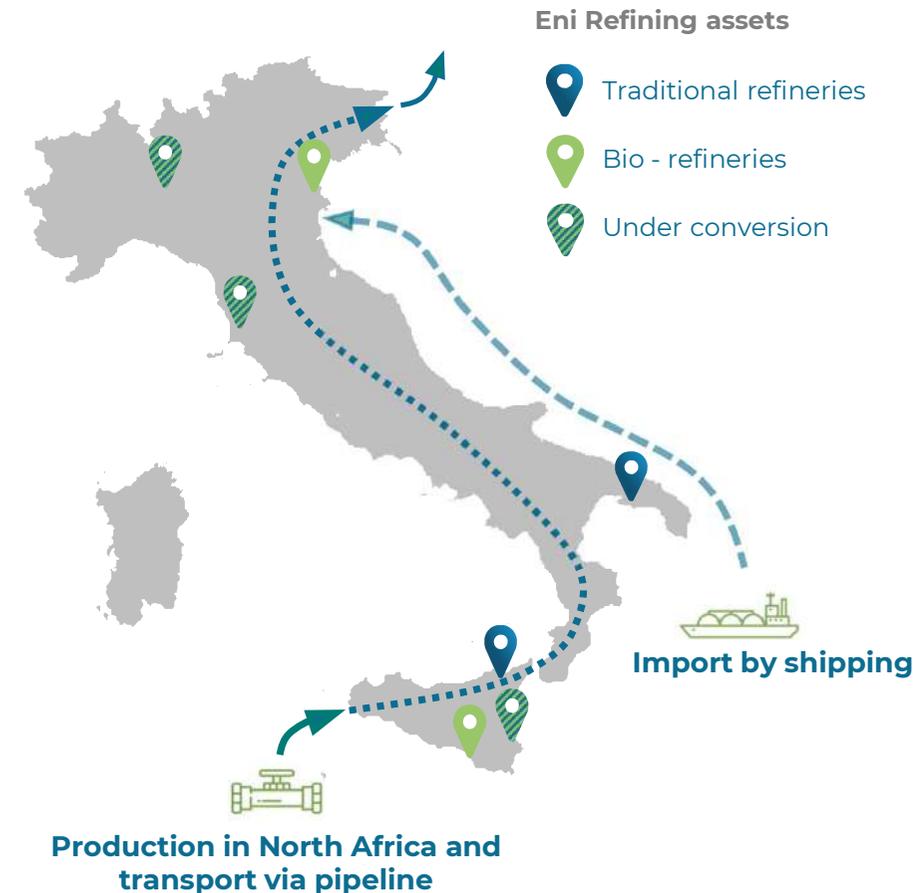
>70 years of experience in hydrogen production and consumption

What strategy to meet H2 RFNBO obligations?



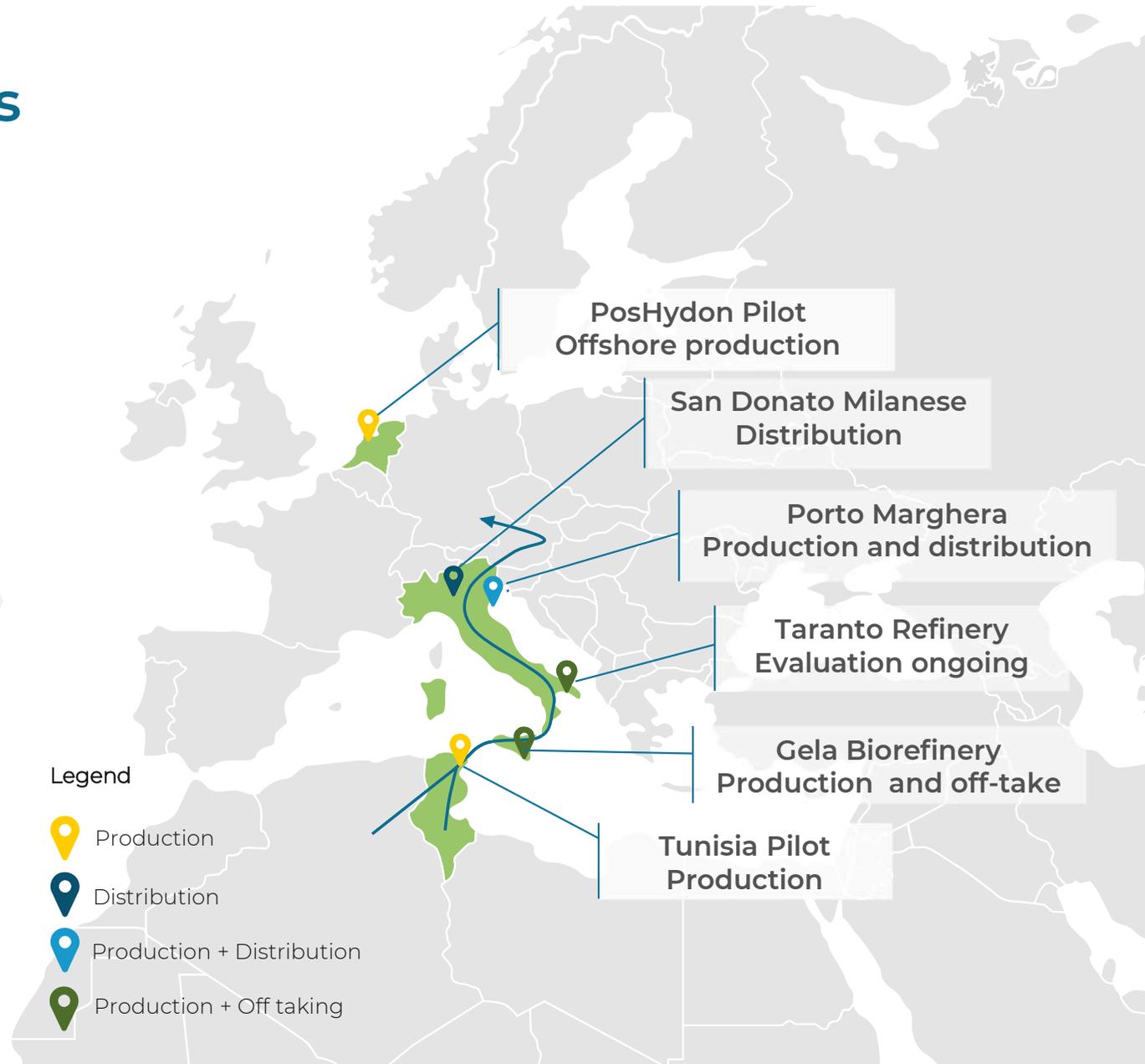
Two different ways to satisfy the H₂ RFNBO obligations

- 1 Local production** of H₂ RFNBO with proper incentives in favorable contexts
- 2 Import** of H₂ RFNBO along two different corridors:
 -  Shipping as derivative (ammonia)
 -  Pipeline transport



Eni Hydrogen Initiatives

Eni is investing in pilot and first of a kind projects to evaluate multiple business perspectives of renewable hydrogen



Porto Marghera Integrated Project Description



Production plant

Distribution plant

8
MW



Electrolysis plant sized to guarantee the supply 365 d/y

Electrolyser remote control cabin and connecting pipe with the distribution station

Fuel station comprising the compression and storage plant and parking slots for 94 Bus

Ancillary services: rest areas, auto repair workshop, bus washing facilities and driver's parking



Demand of around 1.700 kg/d

Refueling in 8 night hours

94 hydrogen bus
| 79 of 12 mt
| 15 of 18 mt

Total investment: >50 M€

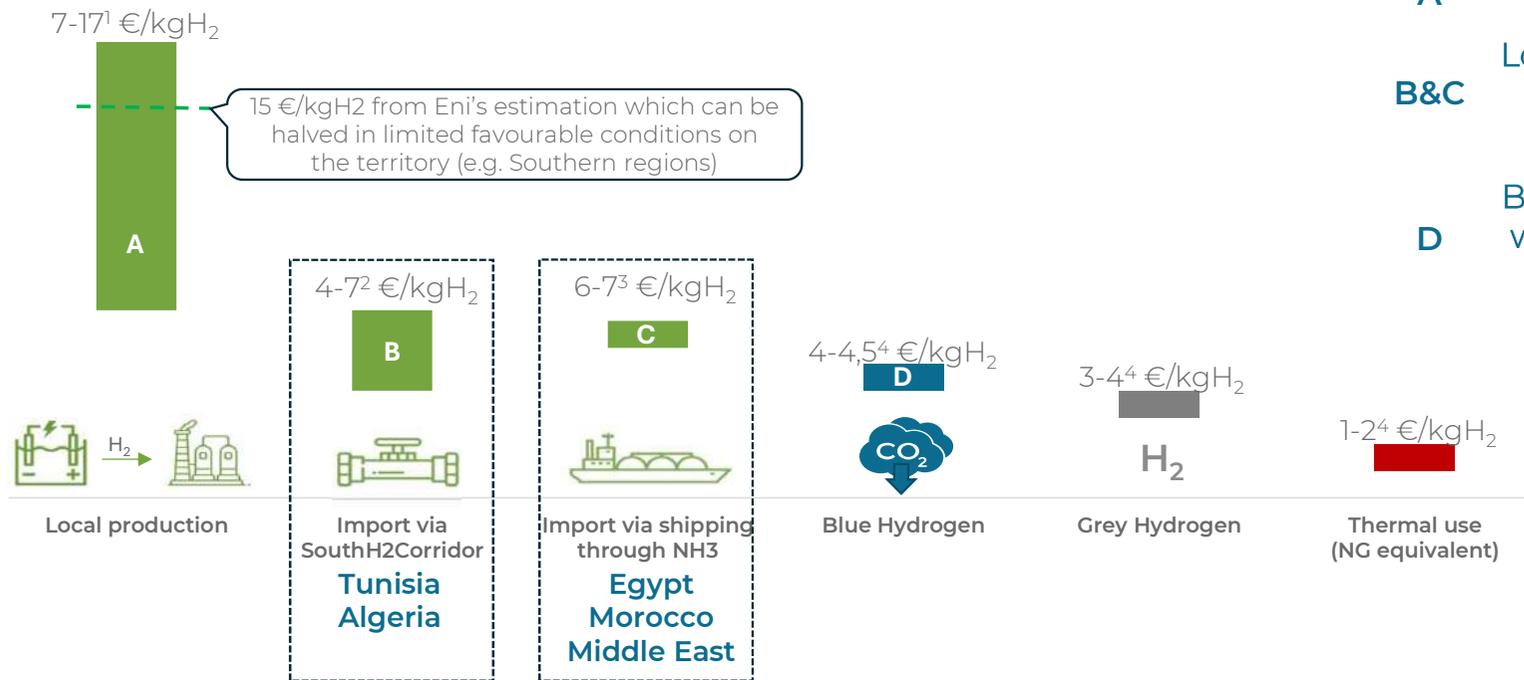


Thank you!

Low Carbon Hydrogen economic overview



Hydrogen costs in Italy [€/kgH₂]



Key highlights

- A** High costs for domestic production: high incentives needed
- B&C** Lower hydrogen import costs, with some uncertainties on import infrastructure
- D** Blue hydrogen can be competitive with grey (depending on gas and CO₂ price assumptions)

¹Source: Italian hydrogen strategy;

²Source: Italian hydrogen strategy, internal assessment of large-scale potential in North Africa

³Source: Benchmark project in Middle East

⁴Source: Eni internal evaluation (PSV: 30-35 €/MWh; ETS: 100-150 €/tCO₂, T&S Ravenna tariff: 50 €/tCO₂)