



PRINOS CO₂ STORAGE

IENE's Workshop on "The Economics
of CCUS applications"

March 2025



Prinos CO₂ storage is a scalable CO₂ injection and storage project

One of the only two storage sites to be operational in the Mediterranean before 2030

Brown field infrastructure to support speedy project delivery

Prinos CO₂ represents the only known CO₂ storage site in Greece

Potential injection capacity of around 3 MtCO₂/year

NSAI CPR confirmed 66.4 Mt CO₂ contingent storage capacity (2C)

The project will be receiving compressed and liquid CO₂ and shall offer a long-term permanent storage service

Attractive commercial positioning

Prinos CO₂ is included in the 6th Union List of European PCIs

12 MoUs for captured quantities of 5.44 MtCO₂/year have been signed

4 CO₂ capture projects totalling 3.8MtCO₂/year have already been funded by EU IF so the speedy development of a chain is a reality.

c. €270 mil in grants allocated to Prinos CO₂ from the Greek RRF and the Connecting Europe Facility



Prinos CO₂ storage

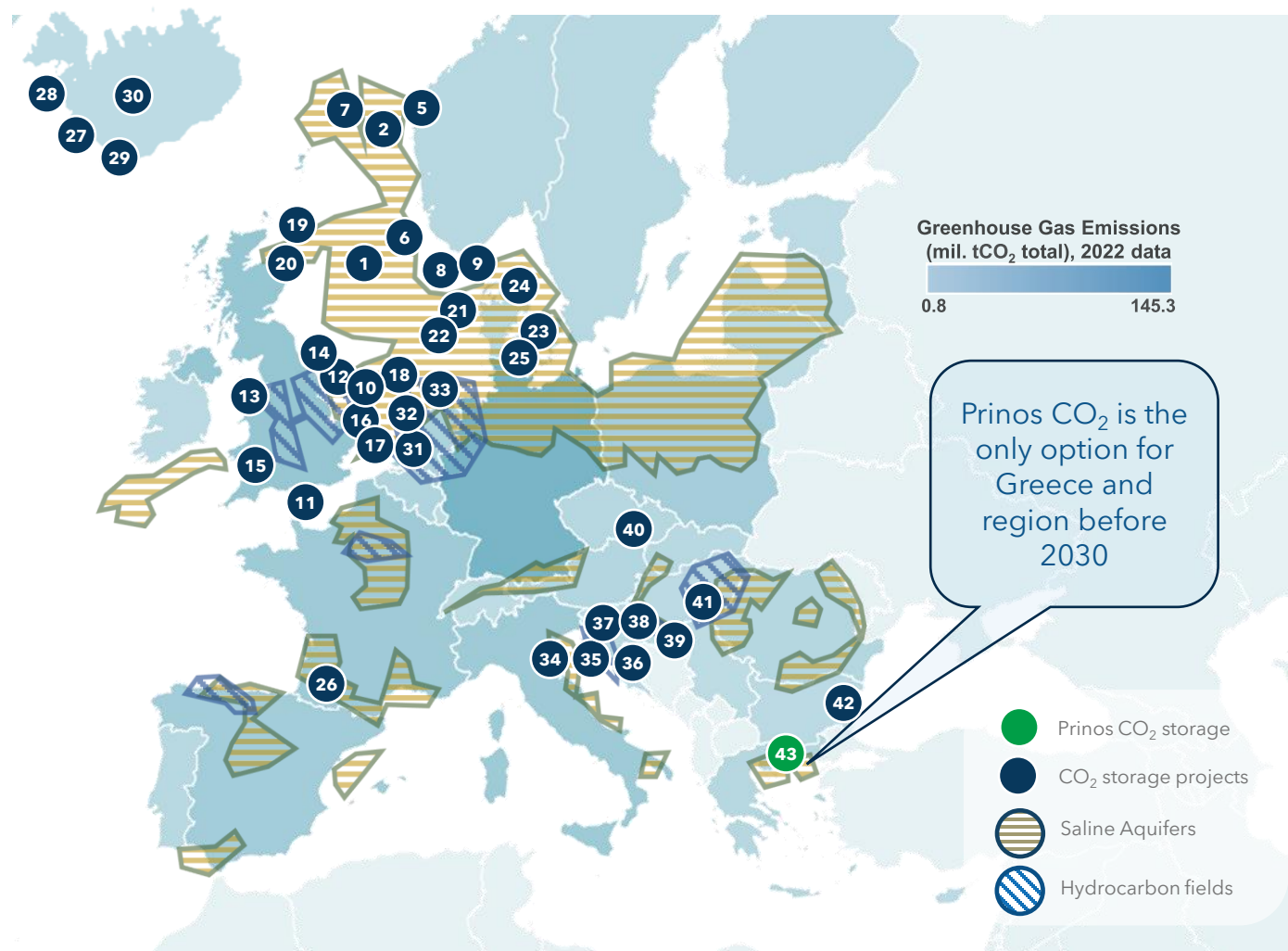


CO₂ storage availability is determined by the suitability of the subsurface

Extensive oil & gas exploration and production in the NE of Europe provides extensive understanding of the subsurface

In the South already identified saline aquifers and hydrocarbon fields are scarce. Additional fields may exist, but exploration activities take time. On the other hand, even in the NE, industrial emissions significantly exceed demand

Country(*)	Industrial CO ₂ emissions (MTPA)	CO ₂ injection capacity (MTPA)
Belgium	27.69	0
Bulgaria	6.67	0.8
Czech Republic	14.32	0.4
Germany	145.40	0
Greece	13.76	3
Spain	57.27	0
France	62.58	5.9
Denmark	4.14	6.02
Italy	63.21	16
Hungary	6.62	0.7
Netherlands	34.24	12.5
Iceland	1.88	0.57
Austria	22.25	0
Poland	51.87	0
Portugal	9.65	0
Romania	17.95	0
Slovakia	11.83	0
Finland	6.89	0
Sweden	11.44	0
Norway	10.40	35.7
United Kingdom	79	30.2
TOTAL	659.06	95.82

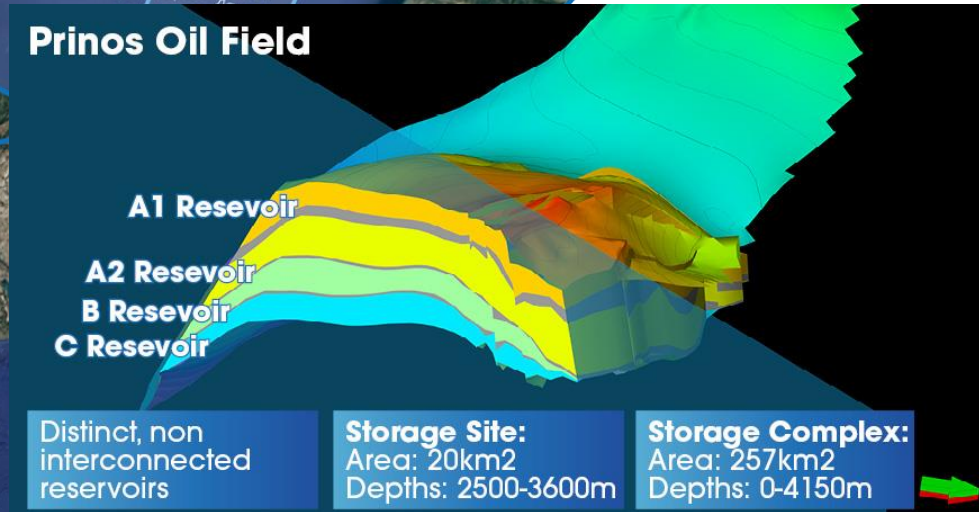
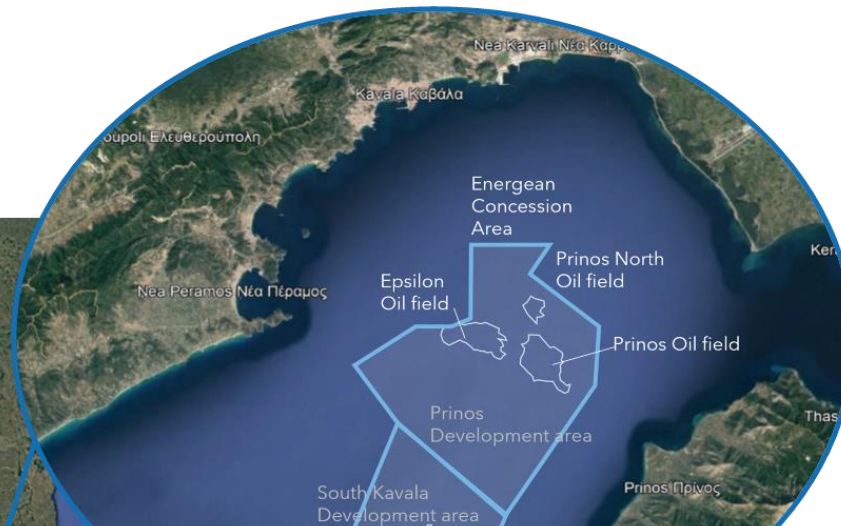


* Only countries with CO₂ emissions over 5 MTPA are shown. Values of industrial emissions refer to 2022 data as published by Eurostat. Values presented refer to the following sectors: Manufacture of coke and refined petroleum products, Manufacture of chemicals and chemical products, Manufacture of other non-metallic mineral products, Manufacture of basic metals, Manufacture of fabricated metal products, except machinery and equipment

Compiled from: Eurostat, IOGP, Department for energy security & net zero, Project Websites. Marked area indicates the geological locations suitable for CO₂ storage by the Geological Survey of Denmark and Greenland for Clean Air Task Force.

Prinos CO₂ Storage Project

Integral part of the Mediterranean CCS Strategic Plan



The rock formations have defined porosity & permeability.

There is a proven sealing caprock above the reservoir formation.

The area of the reservoir can accommodate industrial emissions for several years.

The reservoir depth allows for CO₂ storage in supercritical conditions.

There are hyper-saline aquifers underlying and overlying the oil fields within Prinos basin.

Prinos basin is a tectonically stable area.

Prinos CO₂ facilities

Existing facilities to be combined with new state of the art infrastructure



Pre-feed and field development plan completed



Existing infrastructure to be used for first phase of CO₂ injections



New dedicated infrastructure to be built to accommodate 3MMT of LCO₂ per annum



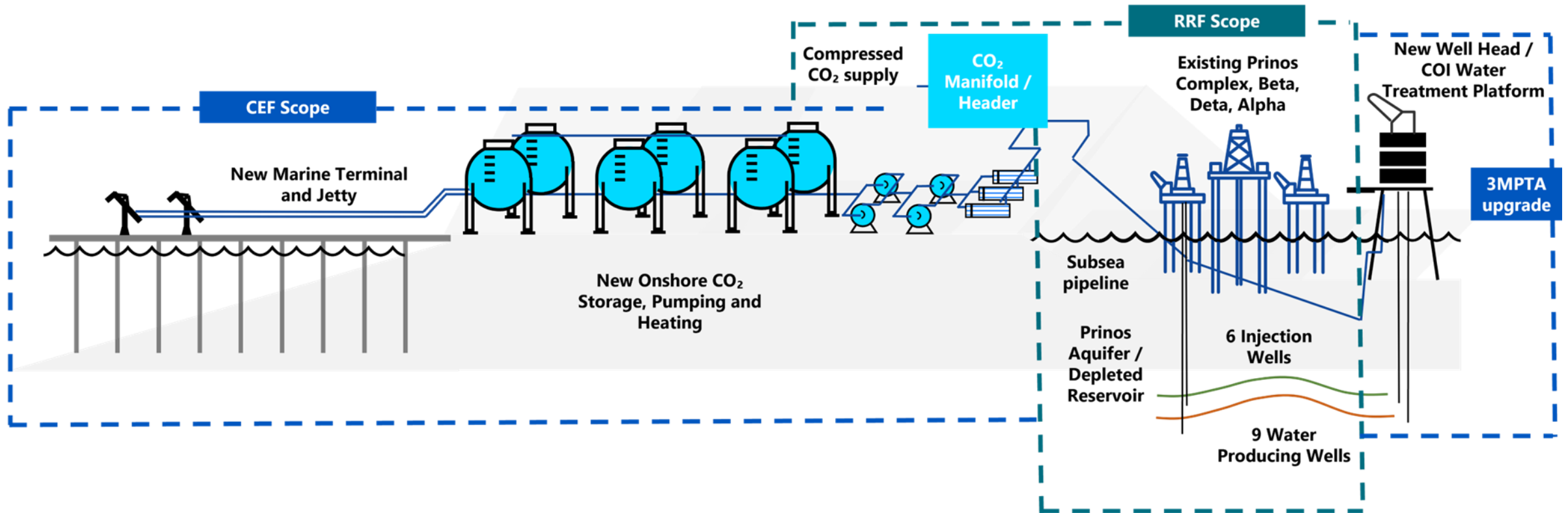
Existing infrastructure in place since the 1980s and supports industrial operations



Allows for both LCO₂ and compressed CO₂ allowing both European and local decarbonization

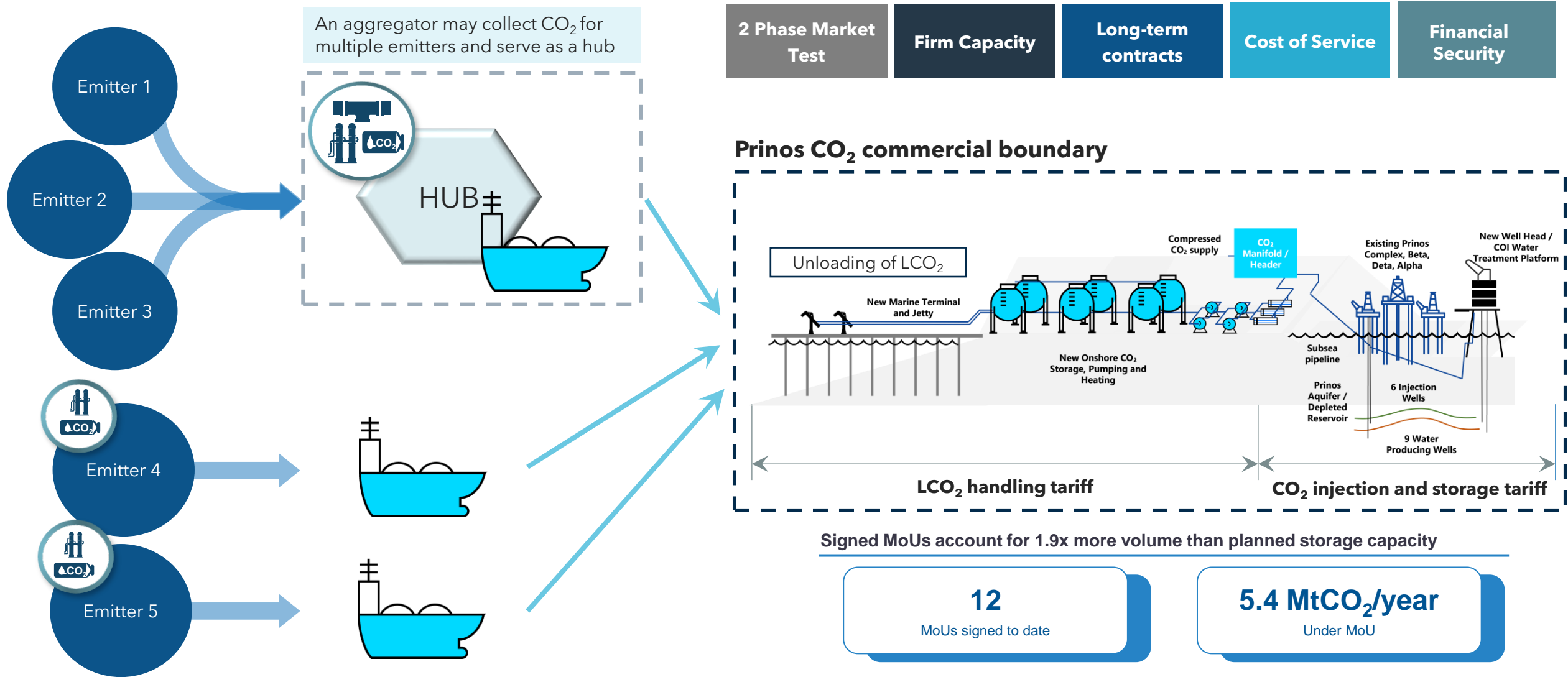


Catalyst for development of a Green hub in the region



Value Chain & Products

Clients to Prinos CO₂ will sign long-term binding agreements for LCO₂ handling, injection capacity and storage



Prinos CO₂ Storage Project

Progress to date

FEASIBILITY & TECHNICAL STUDIES

- Inhouse subsurface studies
- 1st HALLIBURTON Subsurface Study
- 2nd HALLIBURTON Study/CPR/Other Subsurface Studies
- Wood Prefeed
- Additional Engineering Studies (ongoing)
- Consultation with potential users on CO₂ specs (ongoing)

PERMITTING

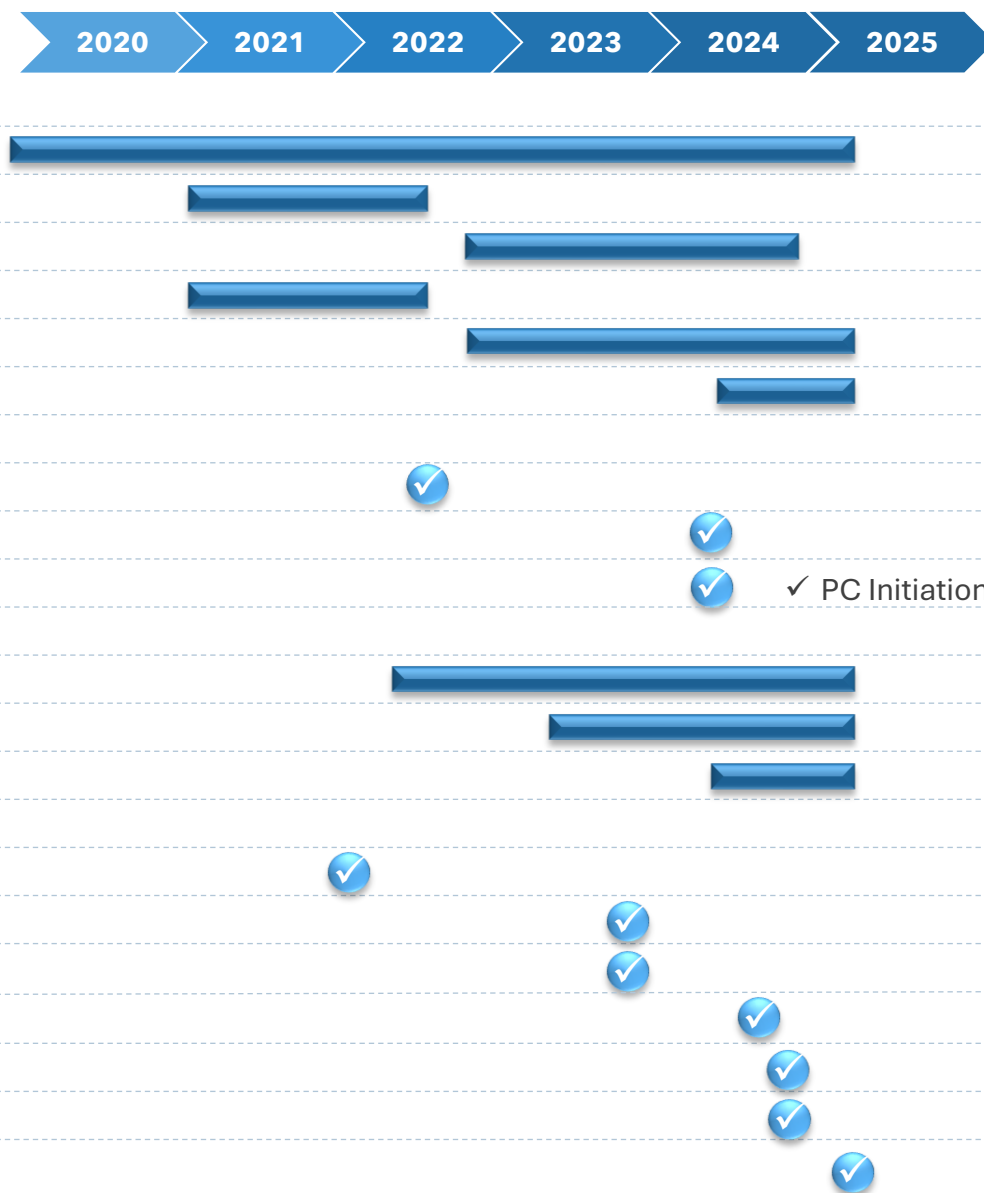
- Exploration Permit
- Storage Permit application (1 MTPA, submitted)
- Environmental and Social Impact Assessment (1 MTPA, submitted) ✓ PC Initiation

COMMERCIAL

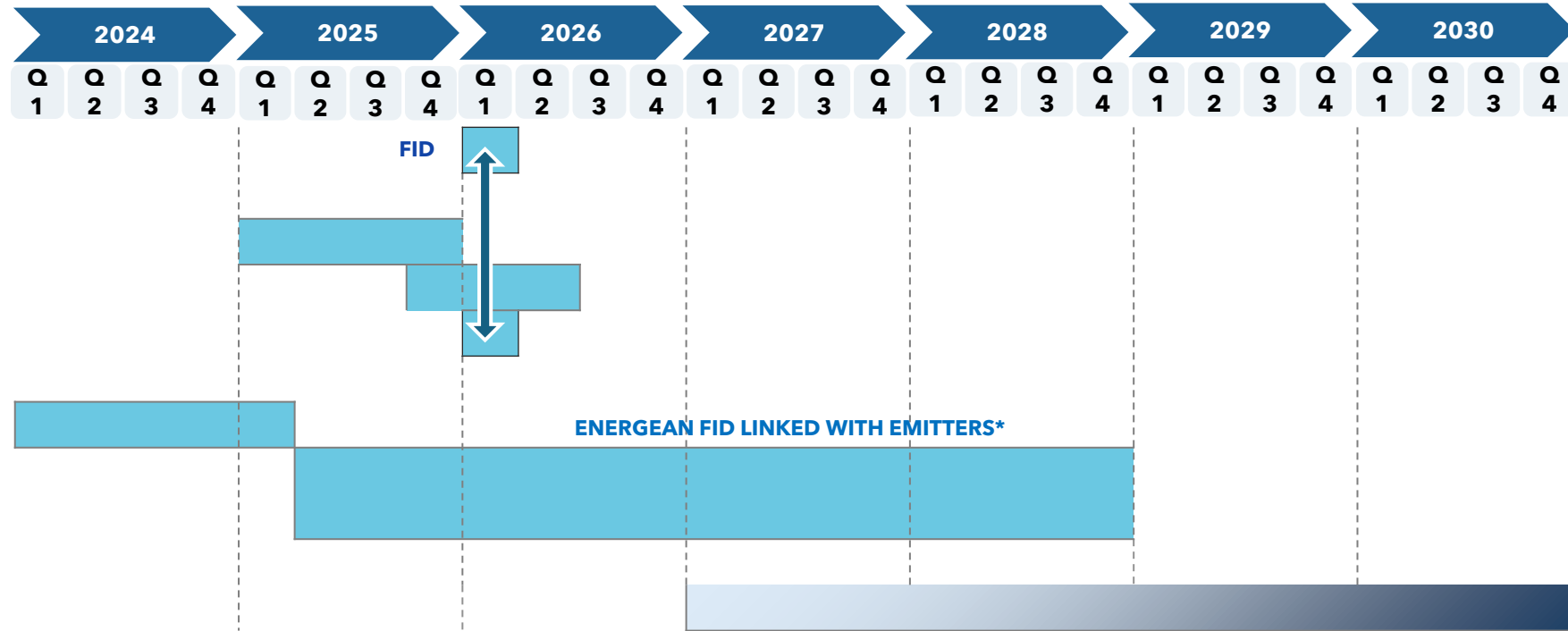
- 12 signed MoUs of 5.4 MTPA captured CO₂
- Market Test for capacity allocation (design ongoing)
- T&C for model long-term storage contract (design ongoing)

GRANTS AND RECOGNITION

- Inclusion of Prinos CO₂ in Greek Recovery and Resilience plan
- 6th Union List of European PCIs
- EL National Energy and Climate Plan
- 150 million euros State Aid approved by the Commission for Phase 1
- Formal inclusion in the RRF scope
- Application for the inclusion in the 7th Union List of European PCIs
- 120 million euros approved by the Commission under CEF for Phase 2



Projected Timeline



EMITTERS READINESS

EMITTERS SELECTION PROCESS

Market test for capacity allocation

Binding long term contract with allocated emitter(s)

Financial close and FID(s)

ENGINEERING PROCUREMENT AND CONSTRUCTION

Engineering studies

Facilities detailed engineering, procurement & construction

Well design, long lead items procurement & drilling

CO2 INJECTION AND STORAGE

Ramp-up to 3 MTPA



Thank you!