



Picture courtesy of Gas Connect Austria

13th Advisory Panel for Future Gas Grids

7 November 2024

Agenda



#	Topic	Presenter	Start
1	Introduction and welcome	Piotr Kuś ENTSOG	11:00
2	Panel discussion on Carbon Capture and Storage	Linus Kilda (KN Energies) Caterina De Matteis (IOGP Europe) John-Henri Van Massenhove (Fluxys)	11:05
3	Q&A (10 Minutes)	Piotr Kuś ENTSOG	11:50
4	Presentation on Project Prinos CO2	Ioannis Stavrakopoulos DESFA SA	12:00
5	Presentation on CCU	Anastasios Perimenis CO2 Value Europe	12:25
6	Q&A (15 Minutes)	Piotr Kuś ENTSOG	12:50
7	Conclusions and next meeting	Piotr Kuś ENTSOG	12:55

2. Panel Discussion on Carbon Capture and Storage



International
Association
of Oil & Gas
Producers



13th meeting of Advisory Panel for Future Gas Grids

ENTSOG Offices
7 November 2024

Overview of existing and planned CO₂ storage projects in Europe

BULGARIA

1. ANRAV (IF)

CROATIA

1. Petrokemija Kutina*
2. Bio-Refinery Project*
3. CCGeo (IF)
4. CO₂ EOR Project Croatia*
5. Geothermal CCS project (PCI)

CZECH REPUBLIC

1. CO₂-SPICER

DENMARK

1. Greensand*
2. Bifrost* (PCI)
3. Stenlille demo CO₂-storage
4. Nornø (PCI)
5. Ruby

FRANCE

1. Pycasso* (PCI)

GREECE

1. Prinos CCS (PCI)

HUNGARY

1. MDL-Hungary CCS Project*

ICELAND

1. Orca
2. Silverstone (IF)
3. Coda Terminal (IF)
4. Mammoth

ITALY

1. Ravenna CCS (includes Callisto)* (PCI)

THE NETHERLANDS

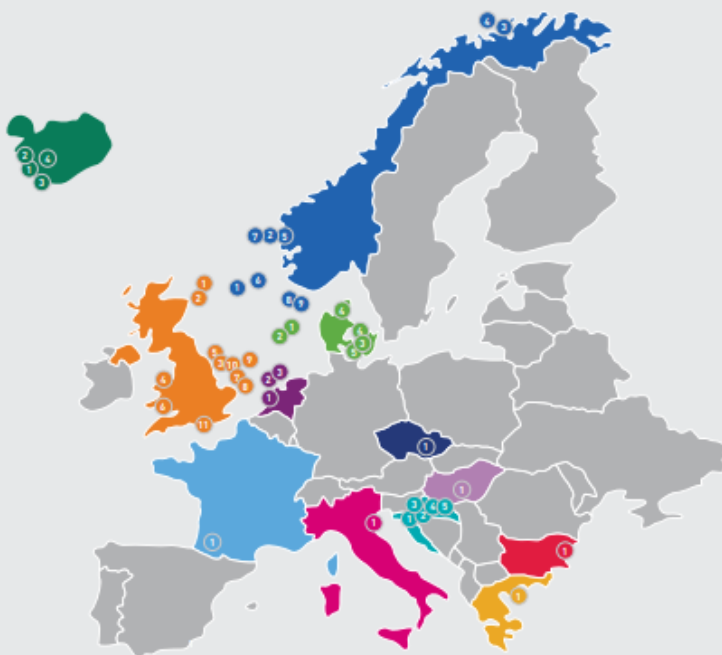
1. Porthos* (PCI)
2. Aramis* (PCI)
3. L10 CCS*

NORWAY

1. Sleipner*
2. Longship (includes Northern Lights)* (PMI)
3. Barents Blue (includes Polaris)
4. Snøhvit*
5. Smeaheia*
6. Trudvang*
7. Luna*
8. Havstjerne*
9. Poseidon (NO)*

UK

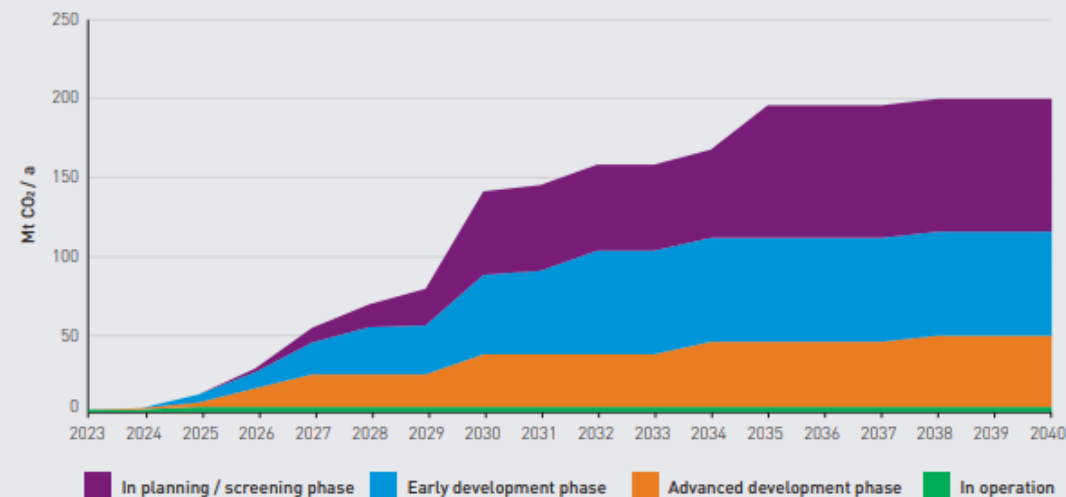
1. Acorn*
2. Caledonia Clean Energy
3. Zero Carbon Humber*
4. HyNet*
5. Net Zero Teesside*
6. South Wales Industrial Cluster
7. Bacton Thames Net Zero initiative*
8. Poseidon (UK)
9. Viking CCS*
10. Orion
11. Solent Cluster*



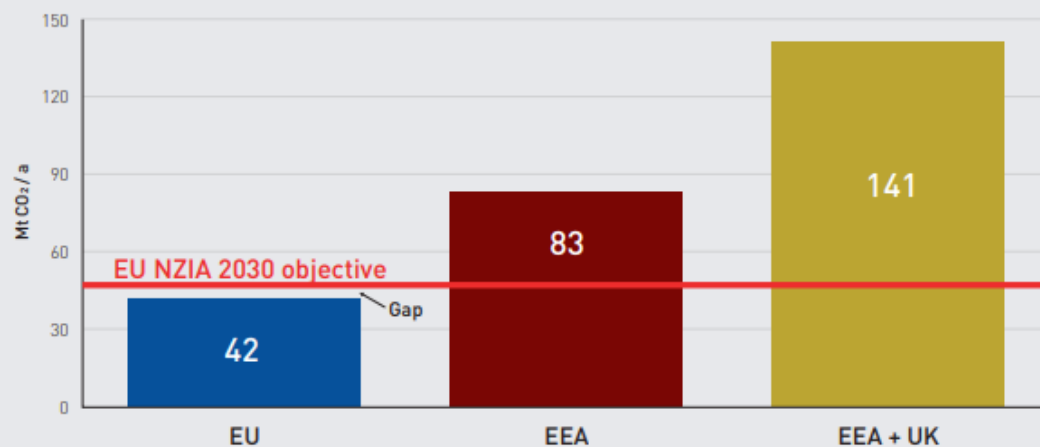
* Project where IOGP Members are involved
 Projects listed in **bold** are in operation
 (PCI) – Project of Common Interest
 (PMI) – Project of Mutual Interest
 (IF) – Project supported by the EU Innovation Fund

EU	19 projects - 42 MtCO ₂ /yr by 2030
Europe	43 projects - 141 MtCO ₂ /yr by 2030

Build-up of CO₂ storage injection capacity in Europe



Regional breakdown of CO₂ storage injection capacity by 2030



Key numbers

EU

19 CO₂ STORAGE PROJECTS

9 COUNTRIES WITH CO₂ STORAGE PROJECTS

42 MT CO₂/YEAR CO₂ storage injection capacity by 2030

Europe

43 CO₂ STORAGE PROJECTS

12 COUNTRIES WITH CO₂ STORAGE PROJECTS

141 MT CO₂/YEAR CO₂ storage injection capacity by 2030

Translating ambition into actions

NZIA (2030) and ICMS (2030+beyond) show ambition, but there is an incomplete enabling framework

Key areas for actions

1) CO2 infrastructure:

- Proposal for a regulatory framework for CO2 transport (CO2 storage infrastructure should not be regulated)

2) Cross-border cooperation:

- Accelerate harmonized accounting of EU and UK CO2 emissions by setting-up a dedicated EU-UK WG.

3) Funding and de-risking:

- IPCEI for CCUS
- CCfDs under Innovation Fund
- Continued research in capture technologies to bring cost down (economies of scale)

IOGP Europe views on CO2 transport regulatory framework

Recommendations for an EU framework on CO₂ transport infrastructure

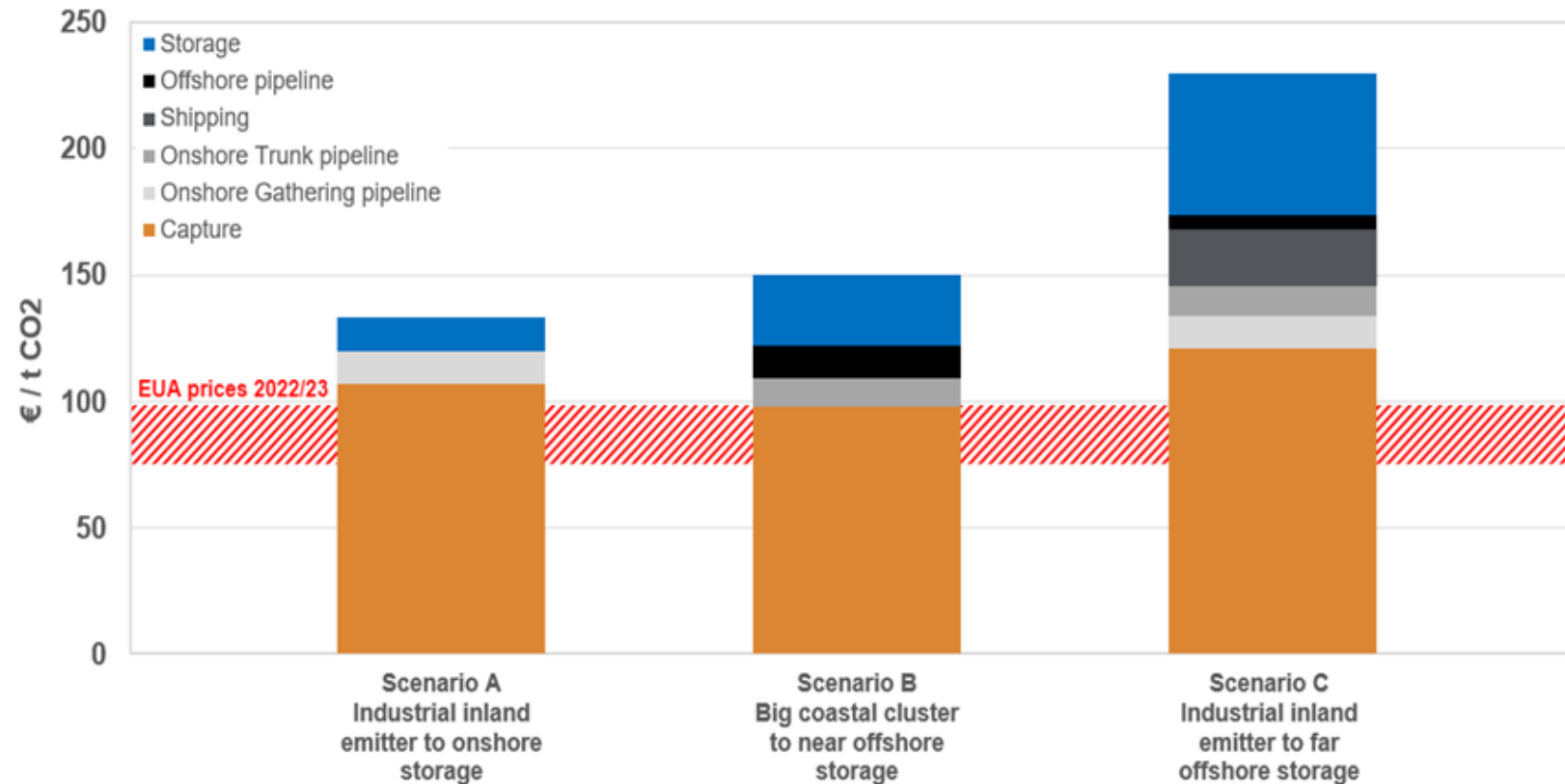


- Need for robust development of CO₂ transport infrastructure, with balanced risk and reward mechanisms along the value chain, supported by long-term contracts and dedicated funding
- Flexible regulatory approach → conditions in MSs are different
 - Access to the CO₂ transport network and storage sites guided by CCS Directive principles of transparent and non-discrimination
 - A one-size-fits-all regulatory approach for CO₂ transportation pipelines is not suitable → framework for distinguishing different types of pipelines
 - Storage operators to compete against each other, leading to cost-efficient market-driven solutions

IOGP Europe paper 'key principles on a future regulatory framework for CO₂ transport infrastructure' [HERE](#)

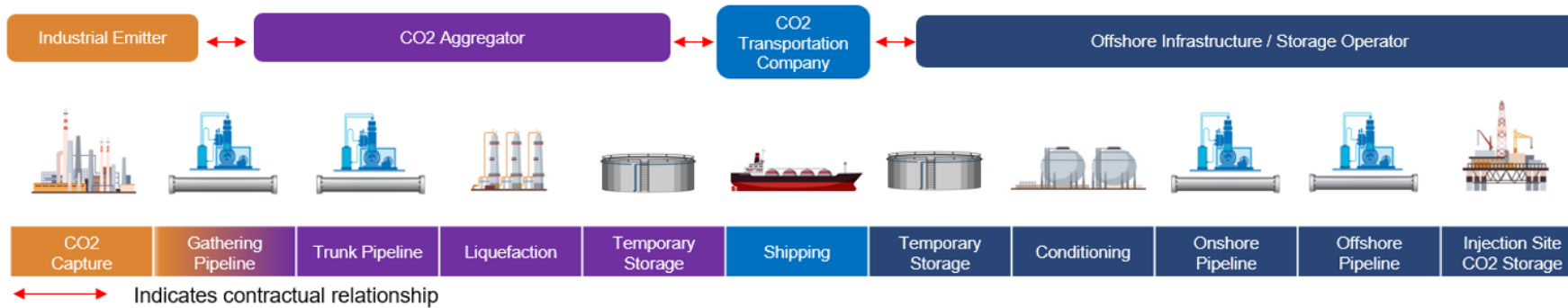
Europe needs a business case

Levelized cost of CCS value chains range from 130 to 230 €/t_{CO2}
3 scenarios based on Rystad Energy data



➤ **Current ETS allowances prices are insufficient for emitters to underpin CCS value chains**

Each segment of CCS value chain needs targeted support



Member States need to take necessary measures for entities to reach the target by 2030, however:

- **An enabling framework is still missing**
- **Industrial Carbon Management Strategy sets actions, but actions set (including enabling legislation) will be ready only in 2026!**

Key de-risking & funding mechanisms along the CCS value chain

- CCfDs
- Targeted funding
- Long term CO2 offtakes contacts
- Economic incentives

- Government backed guarantees
- CO2 aggregators with public backing
- Long term back-to-back capacity bookings
- Regulated tariffs

- Targeted funding
- Long term store-or-pay contracts
- Financial security optionality
- Improving the framework for cross-border carbon accounting and bilateral agreements





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4. Presentation on Prinos CO2 Project

DESFA's CCS PCI Project

13th meeting of Advisory Panel
for Future Gas Grids

November 2024



AGENDA

About DESFA

Our CCS project – ApolloCO2

DESFA counts 17 years of successful operation post the liberalization of natural gas market in 2007



About DESFA

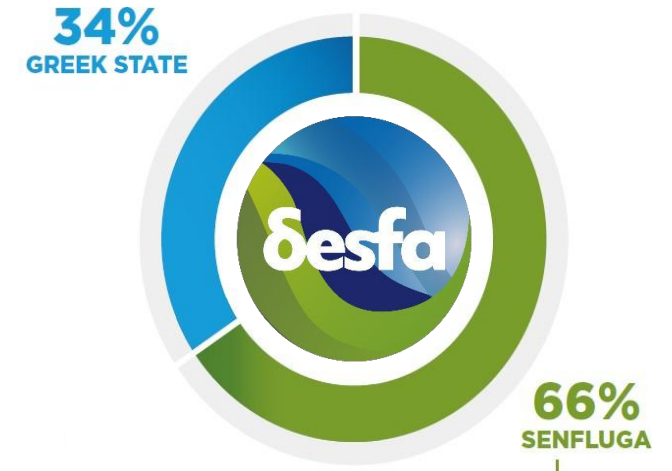
Key Points

- Established in **March 2007**, DESFA owns & operates the **Greek Natural Gas System (NNGS)**, consisting of the **National Natural Gas Transmission System** & the **LNG Terminal** in the islet of **Revithoussa**
- DESFA has been certified as an **Ownership Unbundled Operator** under the **3rd EU Energy Package**, following the **completion of a privatization process on 20th December of 2018**
- DESFA **operates, maintains & develops the Greek Natural Gas System** in a **safe, reliable and economically efficient way**, offering:
 - **Regulated Third Party Access services** in a transparent and non-discriminatory way
 - **A range of non-regulated services** to a number of national & international clients
- DESFA has the **necessary know-how, highly trained staff and the proper equipment** to provide **high-level operation and maintenance services for LNG storage and gasification facilities**

Key Milestones

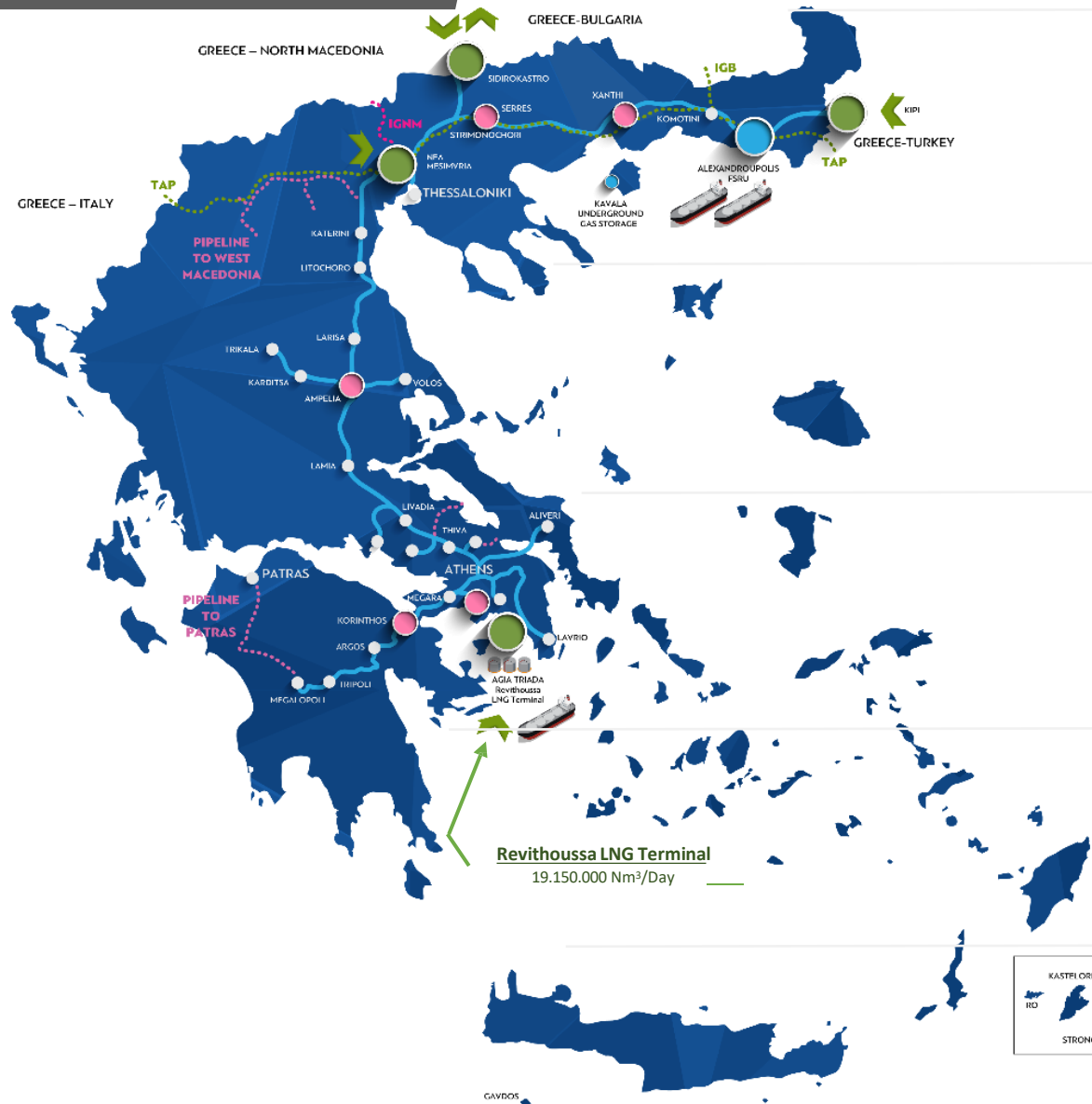
2007	2014	2018
<ul style="list-style-type: none">• Establishment of DESFA	<ul style="list-style-type: none">• Certification of DESFA as Independent Transmission Operator under the 3rd EU Energy Package	<ul style="list-style-type: none">• Completion of privatization process & certification as Ownership Unbundled Operator• Participation as a shareholder (7%) in the Hellenic Energy Exchange (HEEx)

Shareholders' Structure



DESFA's network at a glance

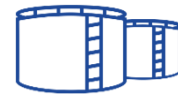
About DESFA



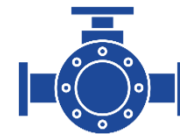
1,466 km
High Pressure
Pipelines



6
Operation &
Maintenance
Centers



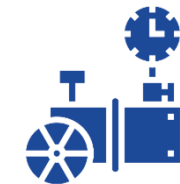
1
LNG Storage &
Regasification Terminal Station
in Revithoussa



25
Exit Points to
Distribution
Systems



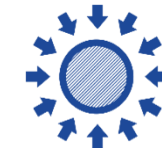
4
Interconnection
Points



2
Dispatch
Centers



53
Metering &
Regulating Stations

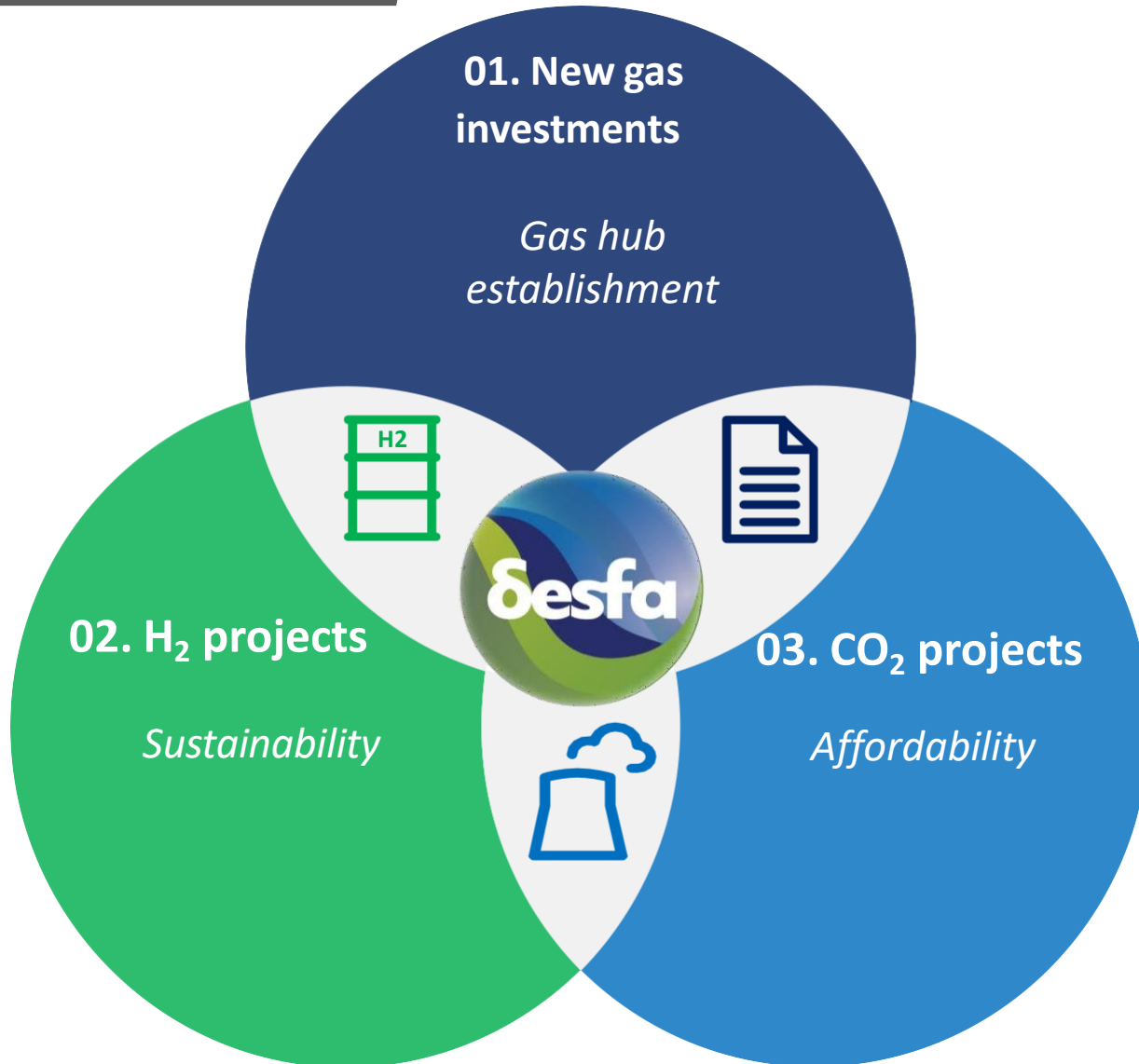


1
Compression
Station

DESFA's focuses on three main pillars to address the energy transition ambition as well as to support EU succeeding in its climate targets



About DESFA



01

Through **new (100% H₂ ready) gas investments** in Greek transmission system and in line with its **extroverted activity**, DESFA secure the supply of NG in SEE and central EU

02

Based on **EU targets**, the Greek TSO has set as one of its **main strategic goals** the **development of H₂ sector in Greece** through the assessment of **Smart Gas Grid and H₂ pipelines projects**

03

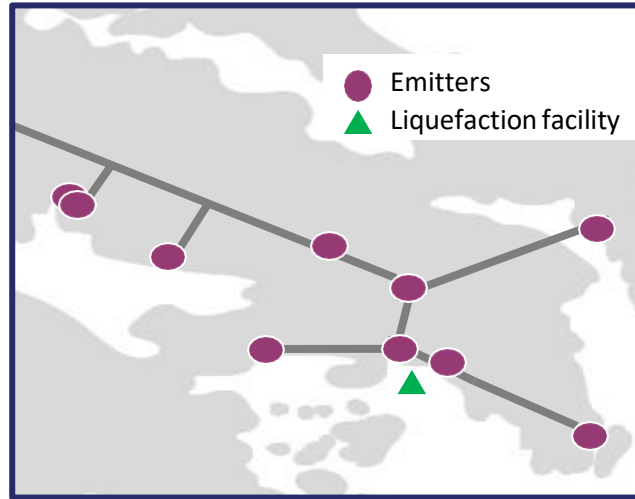
DESFA focuses on being **integral part** and constituting a **vital role in the CCUS business in Greece**, activated in the **midstream** part of the value chain

AGENDA

About DESFA

Our CCS project – ApolloCO2

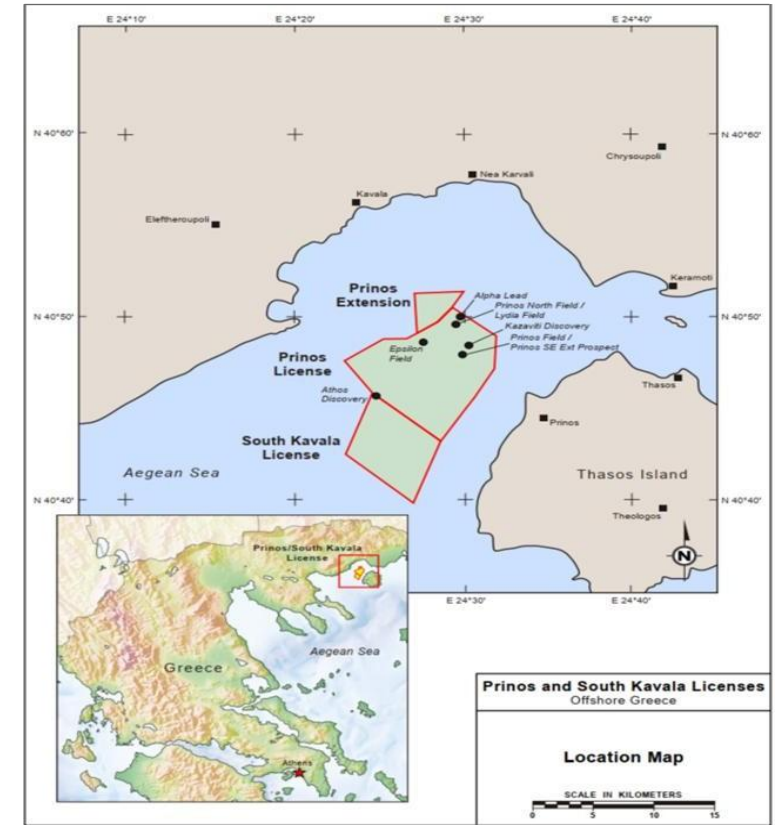
Prinos CCS project developed by DESFA and Energean is part of the latest PCI list



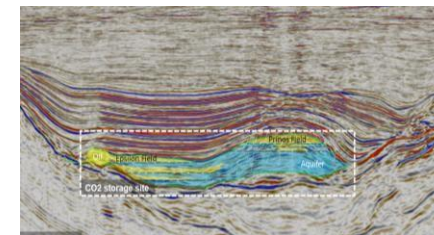
Key Highlights

The “Prinos CO₂” project submitted by Energean and DESFA has been included in the latest PCI list of EC

- ✓ **Energean’s project** envisages Prinos CO₂ Storage Project to be among the **first CO₂ storage hubs at industrial/commercial scale in the Mediterranean. Prinos capacity is expected to be deployed in Phases; Phase 1 (2025-2028): 1 MTPA; Phase 2 (12/2027 – onwards): 3 MTPA**
- ✓ **DESFA’s project** includes the construction of a **dedicated CO₂ pipeline** collecting CO₂ from emitters, a liquefaction terminal, from where the liquid CO₂ will be temporarily stored in a dedicated facility and then loaded to CO₂ carriers that will transport it by sea to Prinos Storage facility, but also to future storage facilities to be developed in the wider European neighborhood



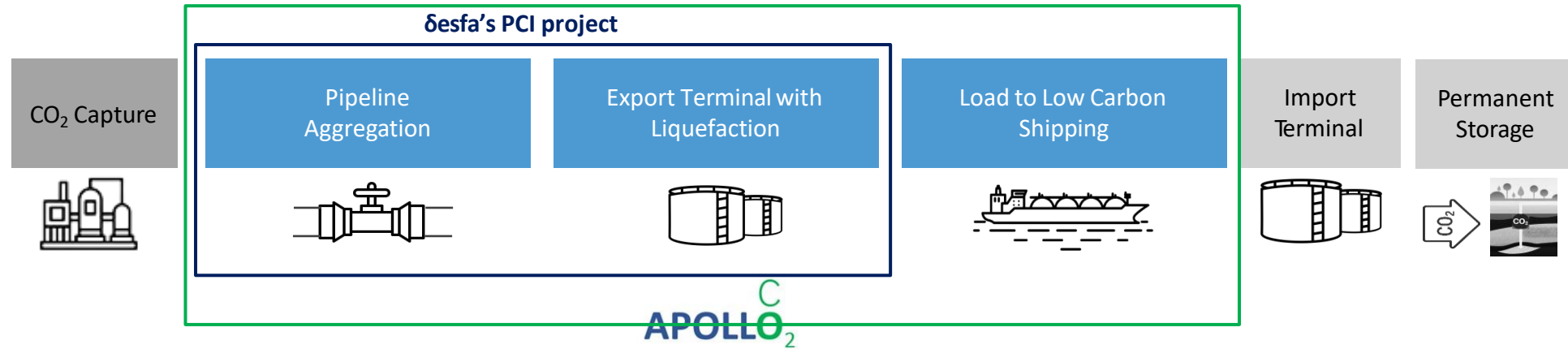
Mapping of CO₂ Storage Site



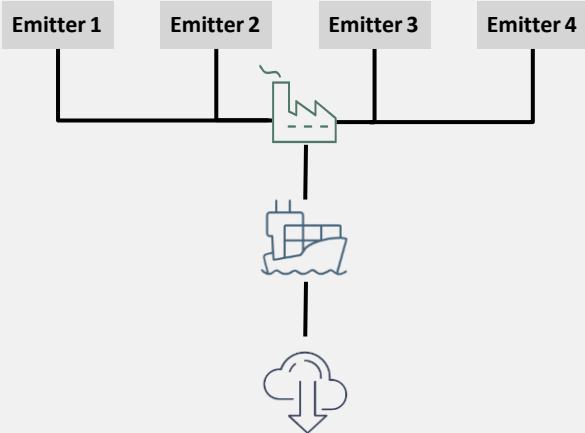
Existing On-Site Infrastructure



APOLLOCO₂ will cover the midstream part of the CCS system value chain



Key highlights



- Due to the benefits offered by **economies of scale**, DESFA proposes an **aggregated scenario** of a **single export facility** located centrally regarding industrial plants
- CCS Hub based on a scalable platform-as-a-service, with an **open-access system to add potential partners and technology** (e.g., smaller-scale emitters and cold energy usage)
- Accelerated licensing and permitting application and process

Main benefits from CCUS



Strengthen the Energy Transition pathway, decarbonizing part of Greek industrial emission by 2030



Development of a leading EU Infrastructure project



Support Greek Industry to stay in country by enhancing competitiveness in Green Products



Substantial Investment in Greek infrastructure for export terminal and pipeline



Green Job Creation for construction, engineering and innovation with opportunity for Local Labour Upskilling

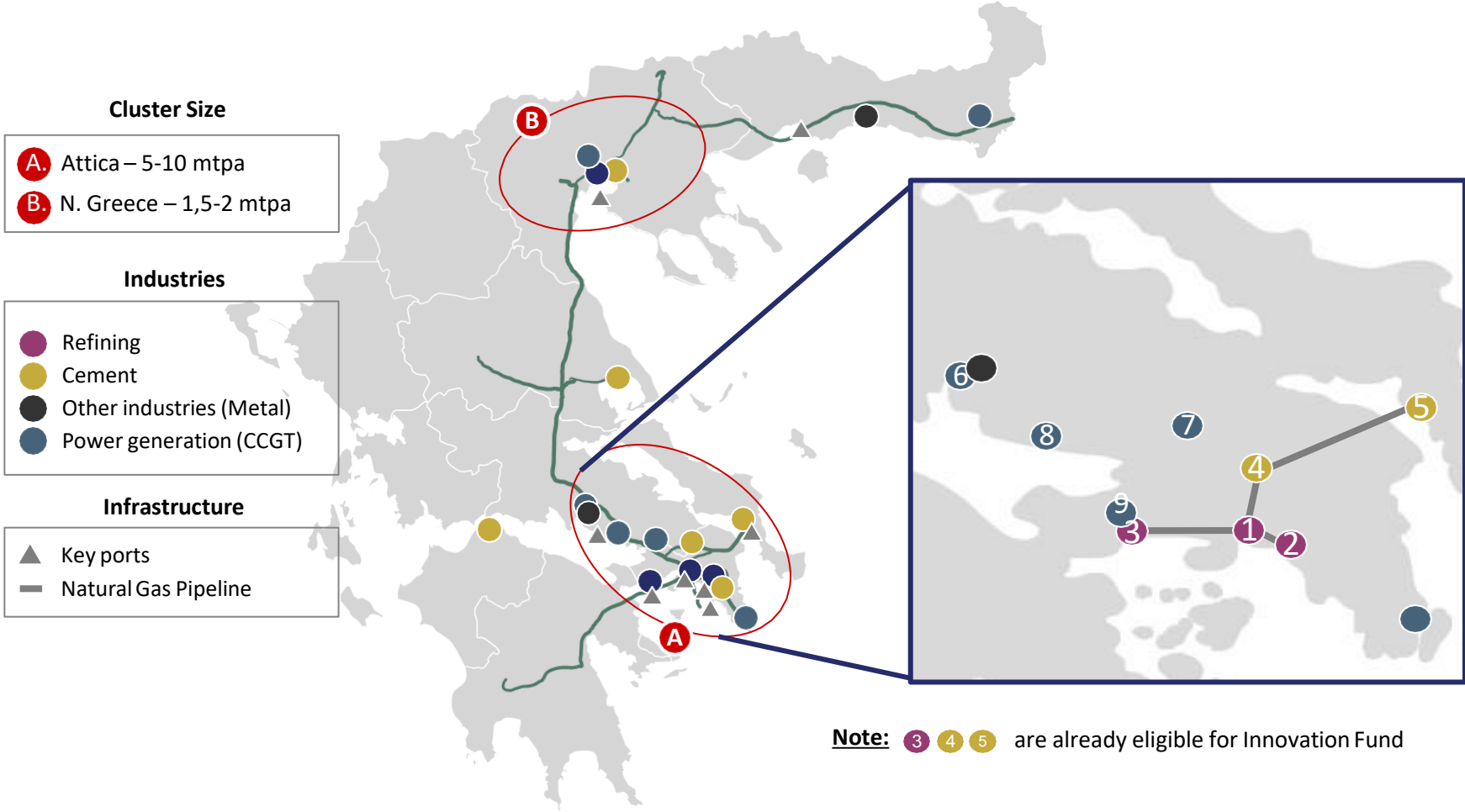


Significant support for National Businesses during construction and operation, generating wide Economic Benefits

There is a potential of approximately 9 Mtpa CO2 in Central Greece and Attica region



CO2 market potential



South Greece potential in phases

Phase 1: EoI & NDA in place (4,1 mtpa)

- Refining**
- 1 Refinery 1 (date tbc) -> 0,6 mtpa
 - 2 Refinery 2 (date tbc) -> tbd
 - 3 Refinery 3 (2028) -> 0,5 mtpa

- Cement**
- 4 Cement 1 (2028-2029) -> 1,9 mtpa
 - 5 Cement 2 (date tbc) -> 1,1 mtpa

Phase 2: Future emitters (4,7 mtpa)

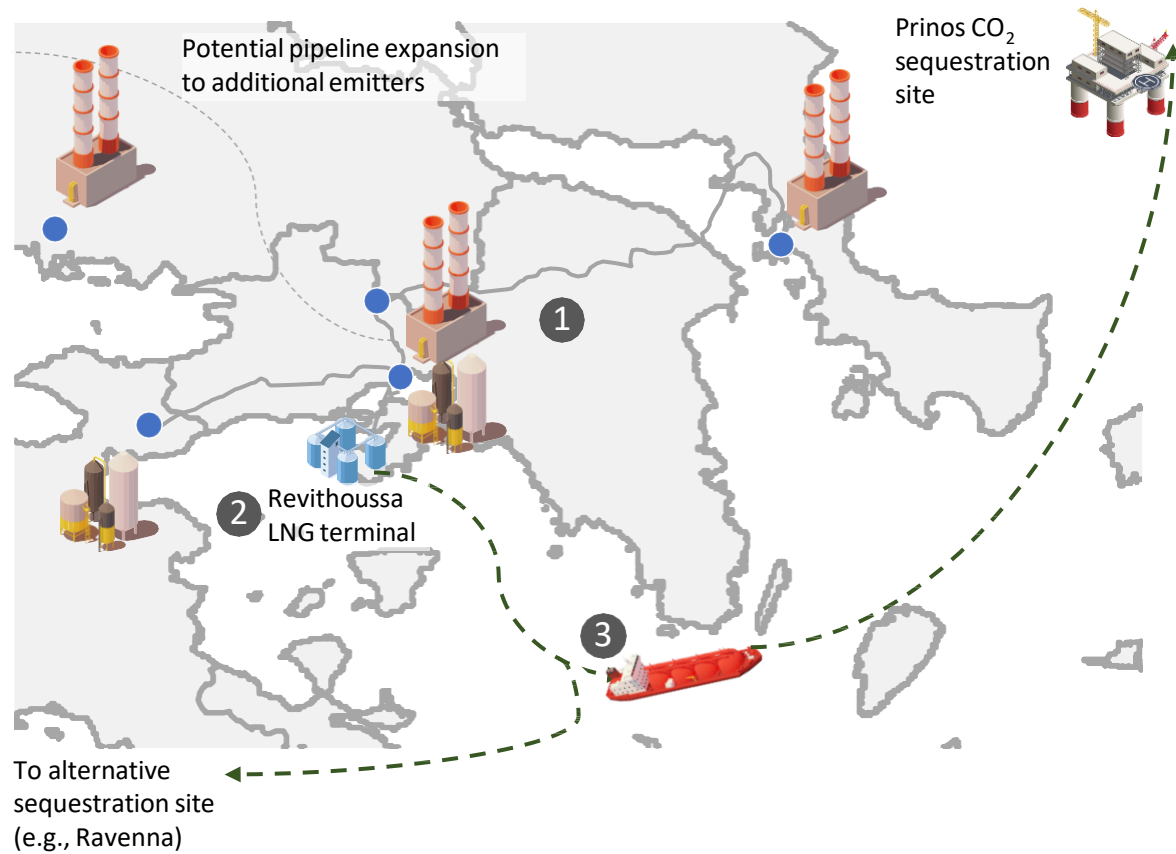
- Power plants**
- 6 Power producer 1 (date tbc) -> 2,3 mtpa
 - 7 Power producer 2 (date tbc) -> 1,6 mtpa
 - 8 Power producer 3 (date tbc) -> 0,4 mtpa
 - 9 Power producer 4 (date tbc) -> 0,4 mtpa

Total (Phase 1 & 2) ≈ 9 mtpa

The design and techno-economic aspects of the APOLLOCO₂ CCS hub in a nutshell

● Industrial emitters — CO₂ pipeline -- Potential expansion: CO₂ pipeline → LCO₂ shipping

APOLLOCO₂ CCS hub schematic



Details of core value-chain assets

1 Pipeline network to integrate key emitters in South Greece

- Aggregates ~50% industrial emissions in Attica with expansion to Viotia
- Feasibility studies finalized, currently at the FEED stage



2 CO₂ liquefaction facility with synergies with Revythoussa LNG terminal

- 5 MTPA capacity to accommodate several emitters (expandable to 10 MTPA)
- Cost efficient CO₂ liquefaction, leveraging cold energy with LNG (~65% opex savings)



3 Large-scale liquid CO₂ vessel (22-40k cbm)

- Optimised vessel size and routes, considering draft limitations around Attica
- Up to ~60% cost savings from scale and maximising utilisation

Potential Ship Size and Outline Specification

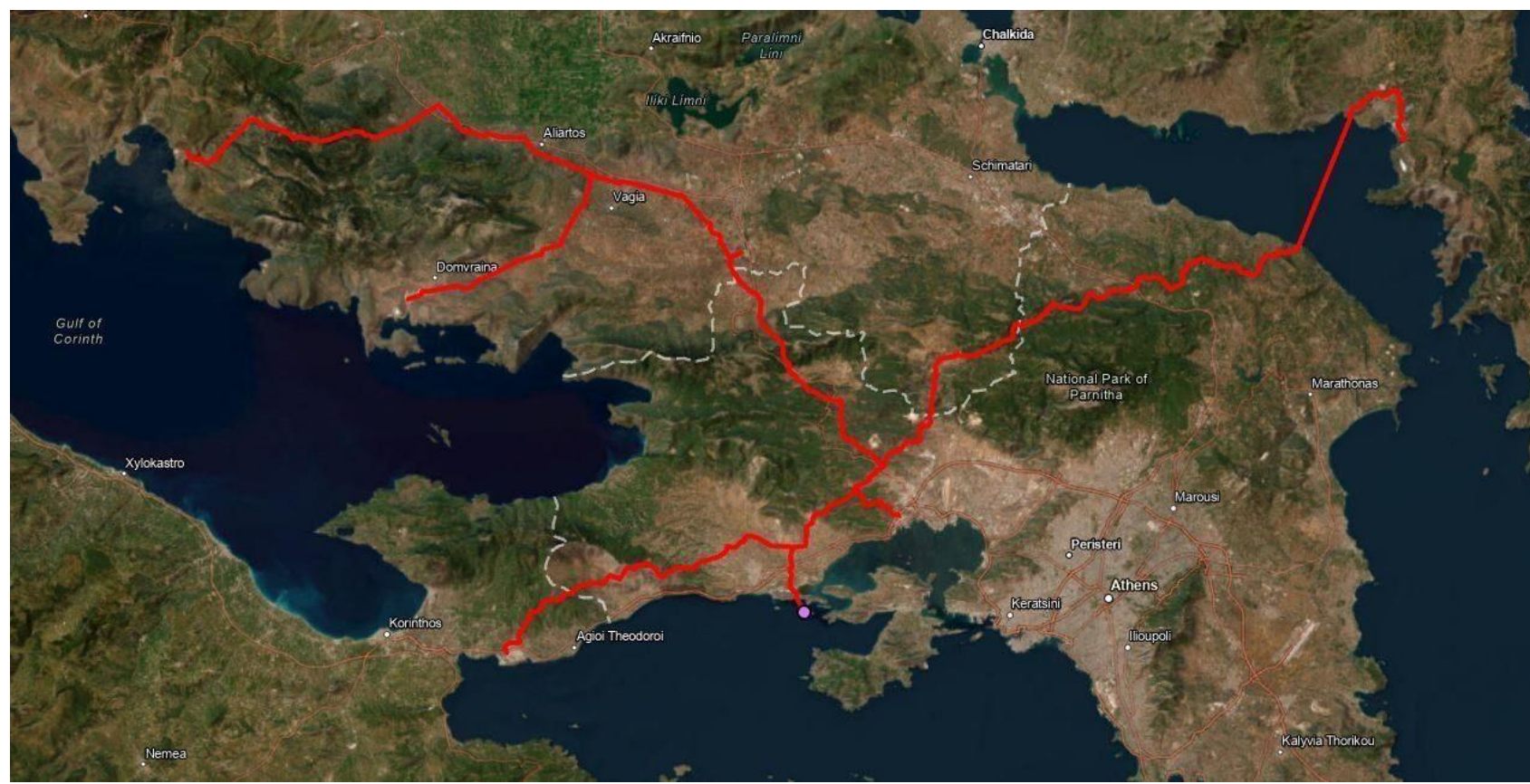
CO₂ SHIPPING

Work in progress

HYUNDAI

Ship Dimension	Classical Tank	Special Tank
LOA	180m	190m
Breadth	27.0m	27.0m
Draft	12.0m	12.0m

Feasibility study for CO2 Pipelines has been executed in 2 phases, resulting in a network of ~300km if all big emitters join ApolloCO2



Pipeline dimensions

Total length	275 km
Pipeline Diameter	20'' – 24''

Gas composition

Northern Lights specification

Gas conditions

Upstream (Inlet of the CO2 pipelines)

Temperature	40 oC
Maximum pressure	42 barg

Downstream (Inlet of Liquefaction Terminal)

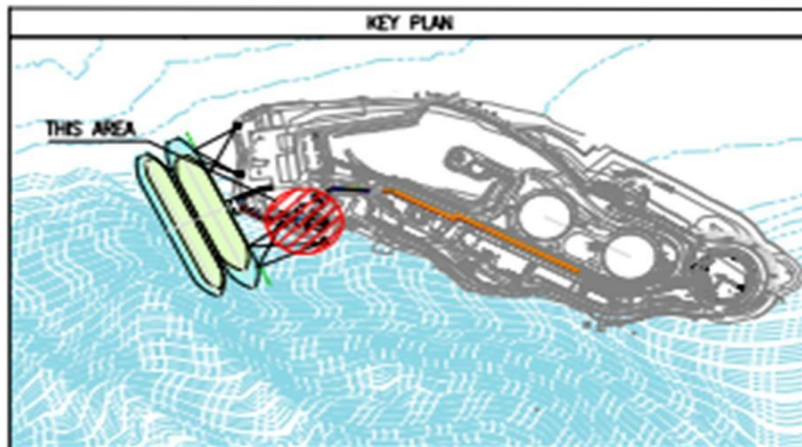
Delivery pressure	20 barg
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Feasibility study for Liquefaction & Export Terminal has proven the benefits of proceeding with Revithoussa as the preferable terminal location

Liquefaction Terminal

1 Technical solution

- ✓ Carbon dioxide **liquefaction facility located on Revithoussa Island** will comprise of both onshore and offshore parts
- ✓ Gas CO₂ will be delivered through pipelines in Revithoussa and **the cold energy exchange will take place on the island** (onshore part)
- ✓ Due to space constraints on the island, for **Storage, Backup liquefaction system** (in the case of LNG unavailability) and **Offloading** of LCO₂ an **FSU solution** was selected
- ✓ **FLSU Jetty linked** at south – west area of Revithoussa Island



2 Innovative characteristics of the proposal



Cold energy utilisation

Exploitation of the otherwise wasted **cold energy generated from LNG regasification processes** to significantly reduce the energy requirements for the CO₂ liquefaction and LNG regasification at the same time.



Low pressure solution

Implementation of a low pressure/gas phase system for the aggregation of CO₂, **providing scalability, safety in terminal's operation, mitigation of permitting hurdles & a cost-competitive advantage by minimising infrastructure & transportation expenses.**



Floating liquefaction & storage unit

Introduction of a FLSU as a **ground-breaking solution to geographical and physical constraints**, with a primary focus on temporary storage and secondary on liquefaction as a backup option. The depth of Revithoussa island enables the accommodation of larger vessels, which can cover greater distances and enable the feasibility of otherwise much more costly standalone CCS supply chains.

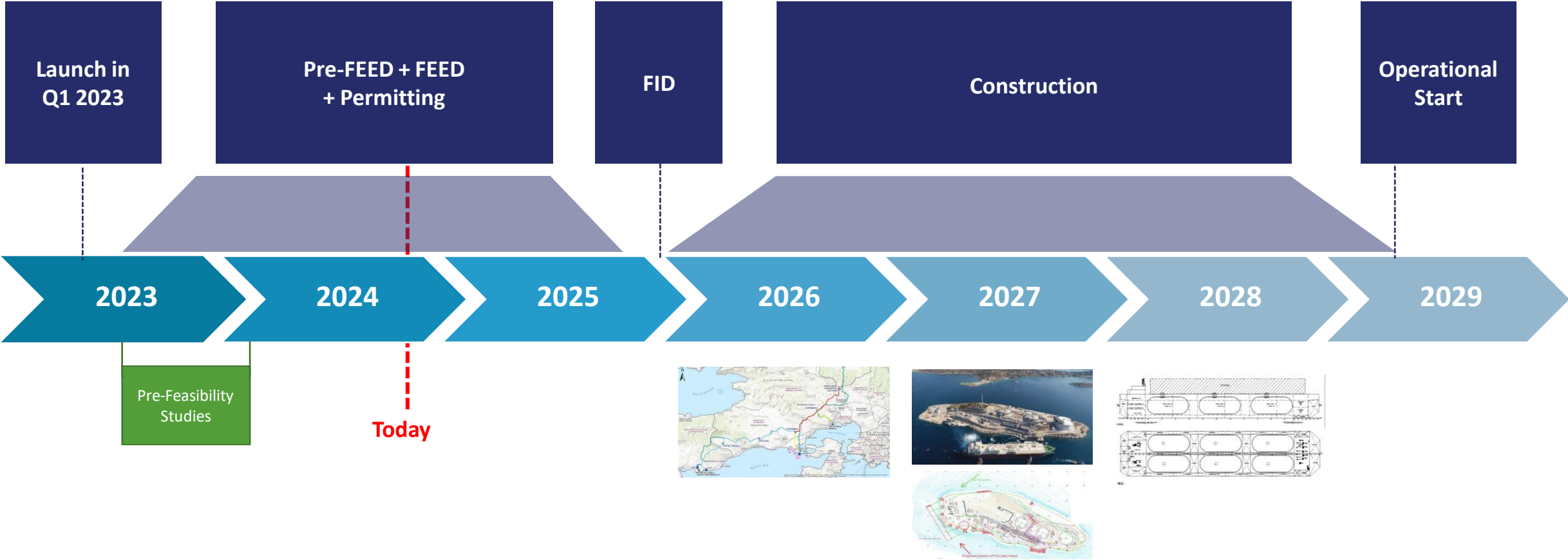
CO2 Sequestration Site Optionality

- APOLLOCO₂ through its partners is in advanced discussions with several sequestration providers in Europe, mitigating storage capacity and delay risks to customers
- By aggregating the volume and increasing the ship size, there are more storage options available for emitters with optimised costs

Potential Partner	Distance to Athens (Nm)	Note
	250	<ul style="list-style-type: none"> ▪ Nearest sequestration site / lowest transportation cost ▪ Limited sequestration capacity
	815	<ul style="list-style-type: none"> ▪ Within Mediterranean ▪ Large sequestration capacity (c. 500mt) ▪ Significant emitter cluster in Northern Italy ▪ Restricted depth for shipping
	2,900	<ul style="list-style-type: none"> ▪ Longer distances / higher transportation cost ▪ More mature compared to Med sequestration sites
	3,140	<ul style="list-style-type: none"> ▪ Longer distance/ higher transportation cost / low sequestration cost
	3,215	<ul style="list-style-type: none"> ▪ More mature compared to Med sequestration sites ▪ Regulatory hurdle to sequestrate outside of EU



APOLLOCO₂ Timeplan



Thank you!

Giannis Stavrakopoulos

Energy Transition & Strategic Planning Specialist

i.stavrakopoulos@desfa.gr



4. Presentation on CCU



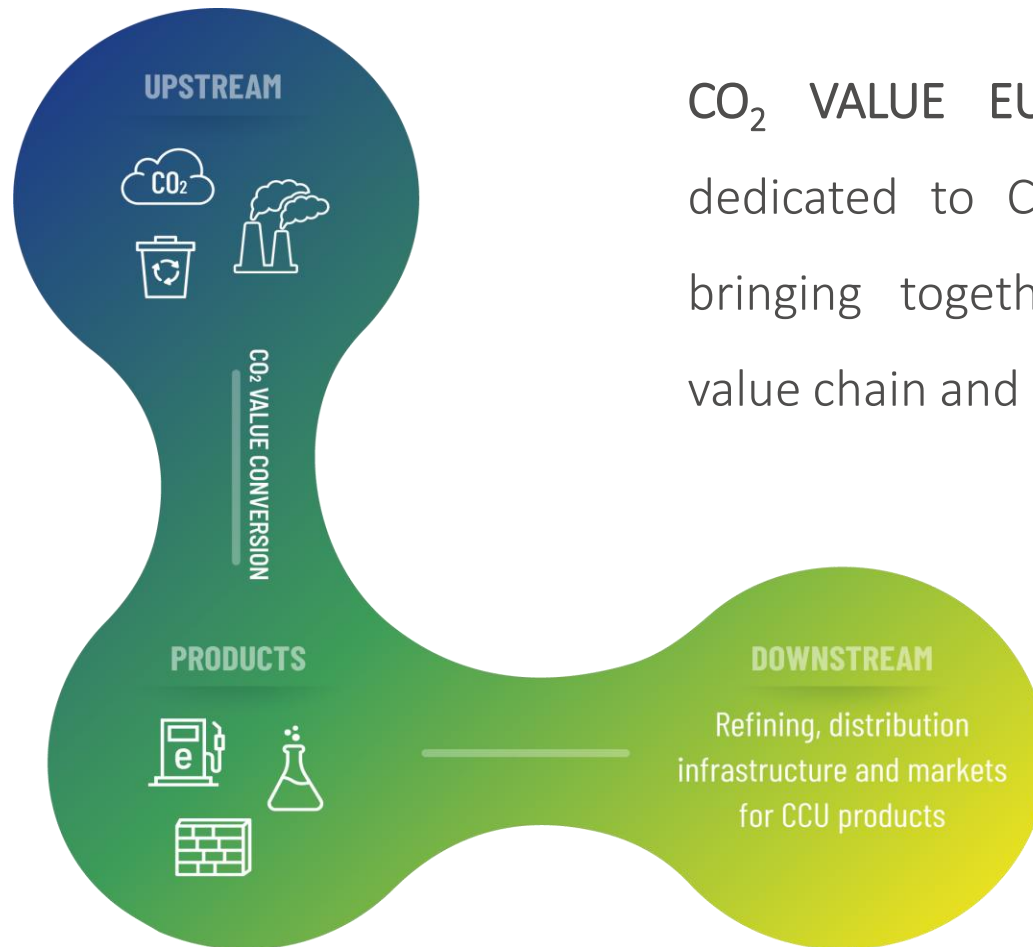
CCU in the current EU context

Anastasios Perimenis, Secretary General

Advisory Panel for Future Gas Grids

07 November 2024

The association



CO₂ VALUE EUROPE is the European association dedicated to Carbon Capture & Utilisation (CCU), bringing together stakeholders from the complete value chain and across industries.

Our priorities

Provide scientific & technical knowledge and evidence-based information on CCU

Raise awareness, engage with stakeholders, communicate about CCU and CVE



Create a supportive and consistent regulatory framework for large-scale deployment of CCU

Support and accompany innovative and industrial-scale project development

Our members

38 Large Companies

27 Research Organisations

47 SMEs

6 Clusters

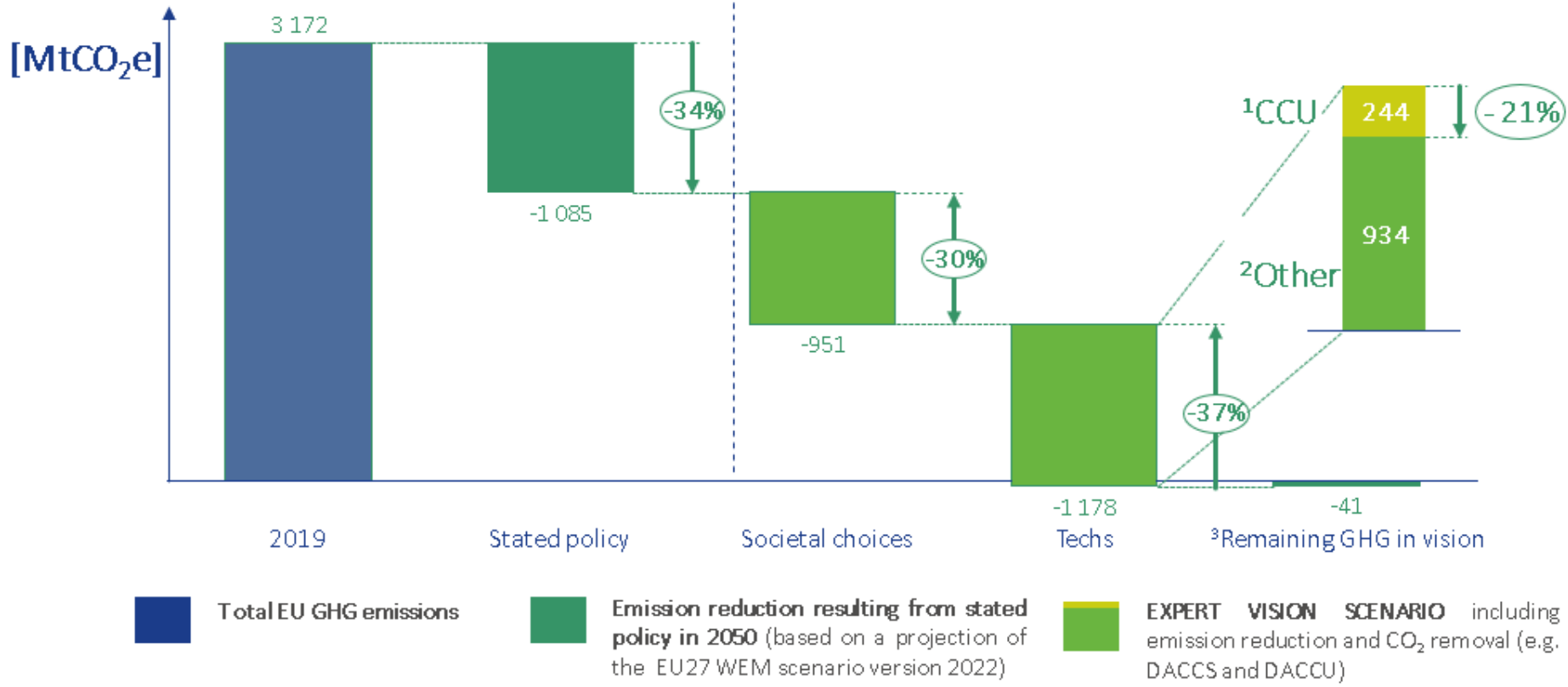
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CARMUSE Celanese CMA CGM
climeworks CRISTAL_UNION ERH fortum
ENGIE Endress+Hauser
FLUOR HOLCIM Iba
Keppel Seghers LYB Mitsubishi Corporation LESAFFRE
Lhoist LyondellBasell ORLEN PAUL WURTH
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GHENT UNIVERSITY imec KIT iit
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LIÈGE université UMONS
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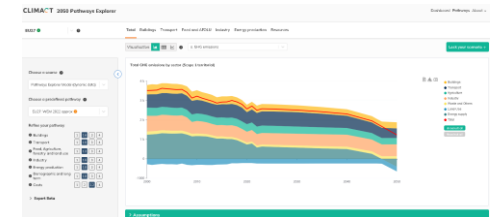
accelera again Biostoom blended
carbon8 carbon clean carbon upcycling CarbonWorks
ENVIRO Ambient ENERGO eChemicles fairbrics hynamics
econic GCT H2 HYSYTECH INERATEC INFINIUM KHIMOD LanzaTech
MGH energy NeoCarbens neustark nordic Electrofuel
norsk e-fuel orbix Paebbl Qair Revcoo ROHRDORFER SEABOUND
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THE JAPAN GAS ASSOCIATION

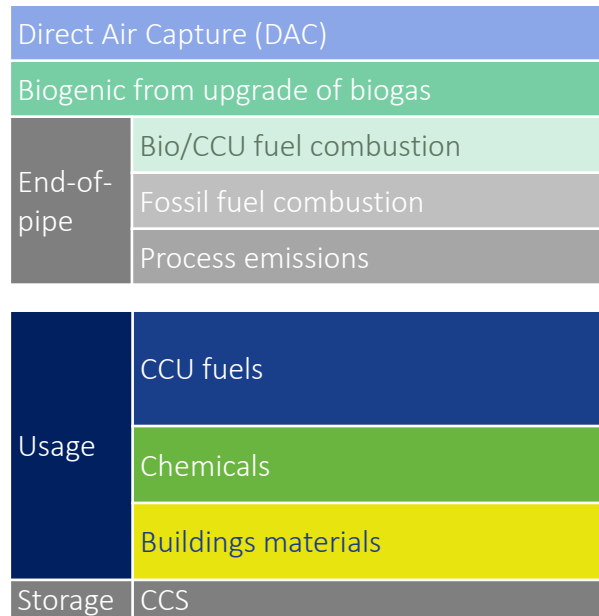
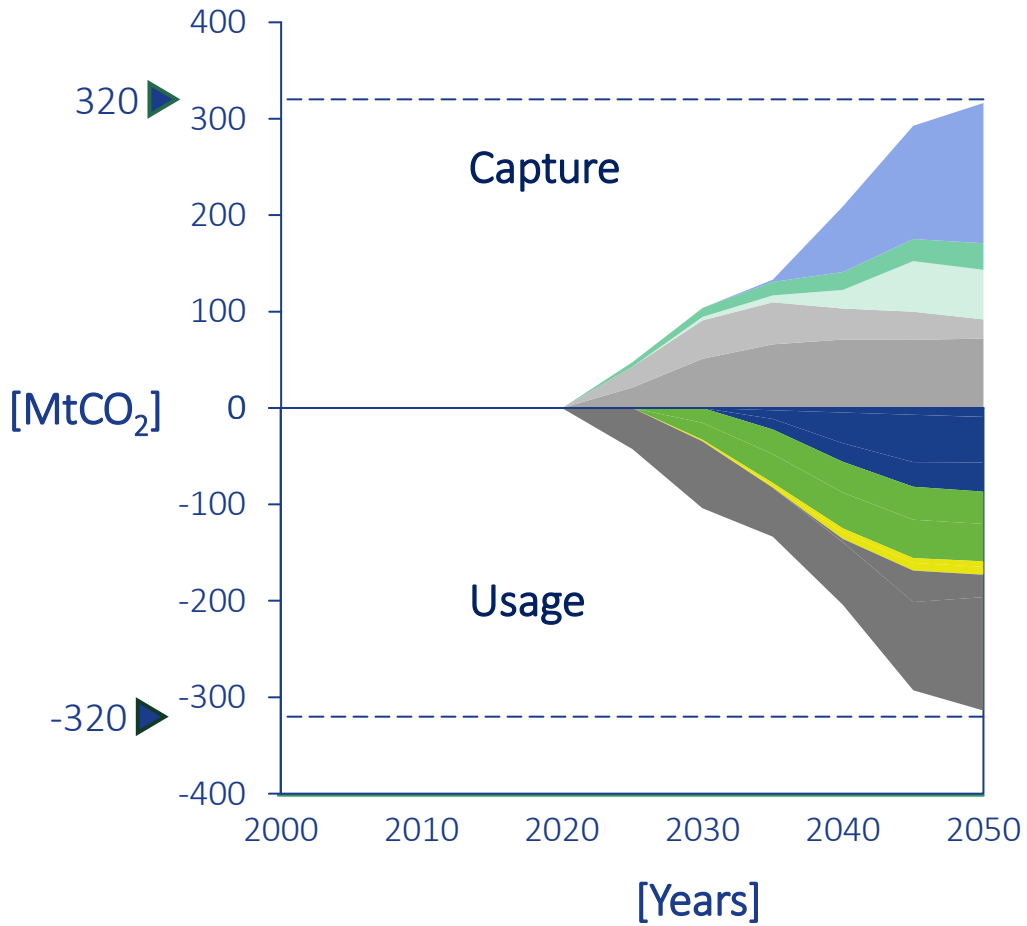
Essential contribution of CCU



THE CONTRIBUTION OF CARBON CAPTURE & UTILISATION TOWARDS CLIMATE NEUTRALITY IN EUROPE
A SCENARIO DEVELOPMENT AND MODELLING EXERCISE



Essential contribution of CCU



	Share	Mt CO ₂
CO ₂ from DAC	46%	147
CO ₂ from biogenic sources	23%	72.6
CO ₂ from CCU-fuel combustion	2%	6
CO ₂ from fossil fuel combustion ¹	6%	20
CO ₂ process emissions	23%	72
CO ₂ used for CCU-fuels production	28%	87
CO ₂ used in chemicals production	23%	72
CO ₂ stored in building materials	4%	14
CO ₂ stored as CCS	45%	141

Projects

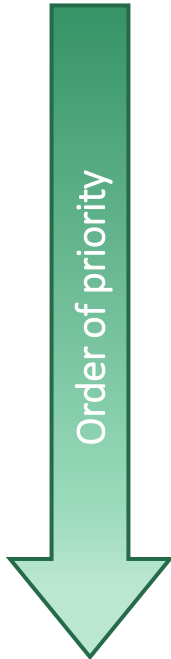
Project	Country	Product	Estimated capacity (t/a)
Carbon2Business	Germany (Lägerdorf)	Fuels & chemicals	350.000
HySkies	Sweden (Forsmark)	Fuels & chemicals	90.000
AIR	Sweden (Stenungsund)	Fuels & chemicals	200.000
eM-Rhône	France (Roussillon)	Fuels & chemicals	150.000
Green MEIGA	Spain (Caldas de Reis)	Fuels & chemicals	100.000
TRISKELION	Spain (Mugardos)	Fuels & chemicals	40.000
Flagship TWO	Sweden (Sundsvall)	Fuels & chemicals	130.000
E-fuel pilot	Norway (Porsgrunn)	Fuels & chemicals	8.000
Green Fuels for Denmark	Denmark (Copenhagen)	Fuels & chemicals	250.000
Norsk e-fuel	Norway (Mosjøen)	Fuels & chemicals	40.000
Power-to-Methanol	Finland (Lappeenranta)	Fuels & chemicals	25.000
Vordingborg	Denmark (Vordingborg)	Fuels & chemicals	80.000
E-fuel	Germany (Frankfurt)	Fuels & chemicals	2.500
AGGRECACO2	Spain (Muskiz)	Materials	56.000
CO2NCREAT	Belgium (Hermaille-sous-Huy)	Materials	130.000
CAP2U	Germany (Lengfurt)	Chemicals & Materials	70.000*
C2PAT	Austria (Mannersdorf)	Chemicals	160.000
Columbus	Belgium (Wallonia)	Fuels & Chemicals	330 GWh/y
REUZE	France (Dunkirk)	Fuels & Chemicals	100.000
HyNetherlands	Netherlands (Delfzijl)	Fuels	100 MW **
Hynovera	France (Meyreuil)	Fuels & Chemicals	100 MW **
LIPOR	Portugal (Meia)	Fuels & chemicals	32.000
Finnfjord	Norway (Finnfjord)	Fuels & chemicals	100.000
eNRG Kotka	Finland (Kotka)	Fuels	35.000
NeoCarb	France (Marseille)	Fuels	50.000
SkyKraft	Sweden (Skellefteå)	Fuels	100.000

*capture capacity, ** electrolytic capacity ;
Source: [CO₂ Value Europe database](#)

Policy framework

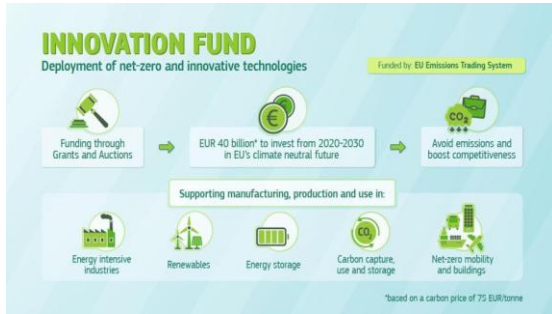
NEW Initiatives published in 2024

SOON Initiatives in the pipeline



Representation

Representation



Innovation Fund Expert Group (DG CLIMA)



Renewable & Low Carbon Fuels Alliance (DG MOVE)



Stakeholder Reference Group TYNDP (ENTSO-E & ENTSO-G)



Chemical Transition Pathway (DG GROW)



ICM Forum - WG CCU co-chair (DG ENER)

The European Strategic Energy Technology Plan

SET Plan key actions	14 implementation working groups
<ul style="list-style-type: none"> Hydrogen Energy systems Energy efficiency Sustainable development CCS - CCS Nuclear safety 	<ul style="list-style-type: none"> Offshore wind Photovoltaics On-shore geothermal On-shore wind Concentrated solar power Water thermal electricity Energy systems Positive energy districts High Voltage Direct Current (HVDC) Energy efficiency in buildings Energy efficiency in industry Energy efficiency in buildings Energy efficiency in industry Batteries Renewable fuels and bioenergy Carbon capture and storage Carbon capture and utilization (CCU - CCU) Nuclear safety

CCUS SET-Plan (DG ENER)



Metrology Network (EURAMET)



Climate Change Expert Group (DG CLIMA)

Representation

Industrial Carbon Management Forum – WG on CCU (co-chairs)

- **Mandate:** Describe challenges and provide recommendations to incentivise industrial-scale CCU deployment
- Addressing critical issues like:
 - Definitions (e.g. sustainable carbon, unavoidable emissions, renewable vs. low carbon vs. zero-rated, etc.)
 - Rules around RFNBO/RCF and derivatives (e.g. sunset clause of 2041, energetic vs non-energetic applications, additionality, geographical & temporal correlation)
 - Captured carbon as feedstock (e.g. treatment of captured carbon vs. virgin fossil carbon for chemicals)
 - Incentivising permanent and non-permanent CCU (e.g. ETS revision, Carbon removal certification)
 - Accounting of emissions from CCU value chains (e.g. GHG protocol)
 - Mix of inputs & mass balance,
 - Product and CO₂ certification
 - ...

Representation

TYNDP – Stakeholder Reference Group – WG on Carbon Management (chair)

- **Mandate:** Provide advice on the TYNDP scenarios
- WG on Carbon Management addressing issues like:
 - Calculation of carbon budget
 - Including non-energy emissions & more CCU energy carriers (e.g. methanol)
 - Assessing how CCU/CCS can be included in the model and not only as an external assumption → Innovation Roadmap
 - Including CO₂ transport infrastructure → Innovation Roadmap
 - ...



Thank you!

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3. Q&A



Thank you for your attention

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