



FOR A NET-ZERO FUTURE

The Economics of CCUS applications
Athens - March 2025

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HOLCIM

GLOBAL LEADER IN INNOVATIVE AND SUSTAINABLE BUILDING SOLUTIONS

63,448 
Employees

Net Zero

1.5°C-aligned 2030 & 2050 targets
validated by SBTi

2742 
Operating sites
around the world

60 Markets
around the World

27 BN
CHF 
Net Sales

20% 
reduction in our CO₂ per net
sales

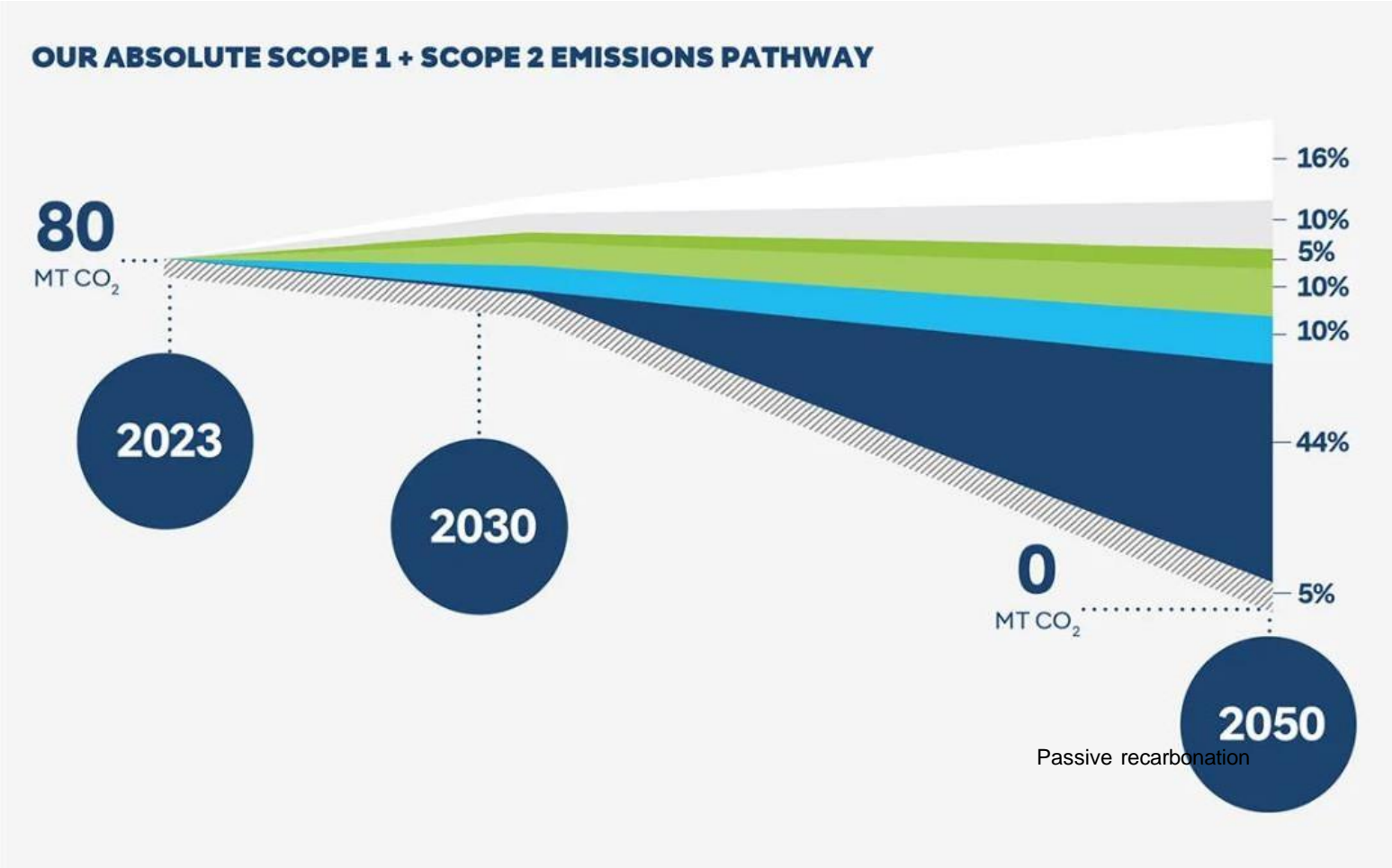
500+ Startups 
In our open
innovation ecosystem

#1 
R&D
organization in
our industry


5 
worldwide R&D
hubs

BECOMING A NET ZERO COMPANY

CLIMATE TARGETS VALIDATED BY SCIENCE-BASED TARGETS INITIATIVE (SBTI)



- Efficiency gains in design & construction
- Efficiency gains in concrete
- Decarbonized electricity
- Less clinker in cement
- Less CO₂ in clinker
- CCUS & other advanced technologies
- Passive recarbonation

- Ambitious 2030 climate targets validated by the Science-Based Targets initiative (SBTi)
 - Accelerating our reduction in CO₂ intensity to exceed 20% (compared to our 2018 baseline)
 - Partnering with SBTi beyond 2030, to set the first climate targets for a 1.5°C future in the cement sector
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DECARBONIZING HOLCIM FROM ENERGY TRANSITION TO LOW-CARBON FORMULATION



ENERGY TRANSITION

Alternative Fuels

from biomass to municipal waste

Renewable energy

from solar, wind and hydro to waste heat recovery



LOW-CARBON FORMULATION

Broad range of innovative low emission materials

from construction demolition materials to calcined clay



GREENER MOBILITY

Sustainable and efficient: From autonomous quarry e-vehicles to long-haul biofuel and e-trucks, to railways and barges

Digitalization: Proprietary digital technologies to optimize load and route efficiency, safety and carbon footprint



ADVANCED TECHNOLOGIES

CCUS and mineralization: 17 flagship projects including recycling CO₂ for applications like transport and agriculture

Plants of Tomorrow: automated and data-driven solutions, from robotics to predictive maintenance

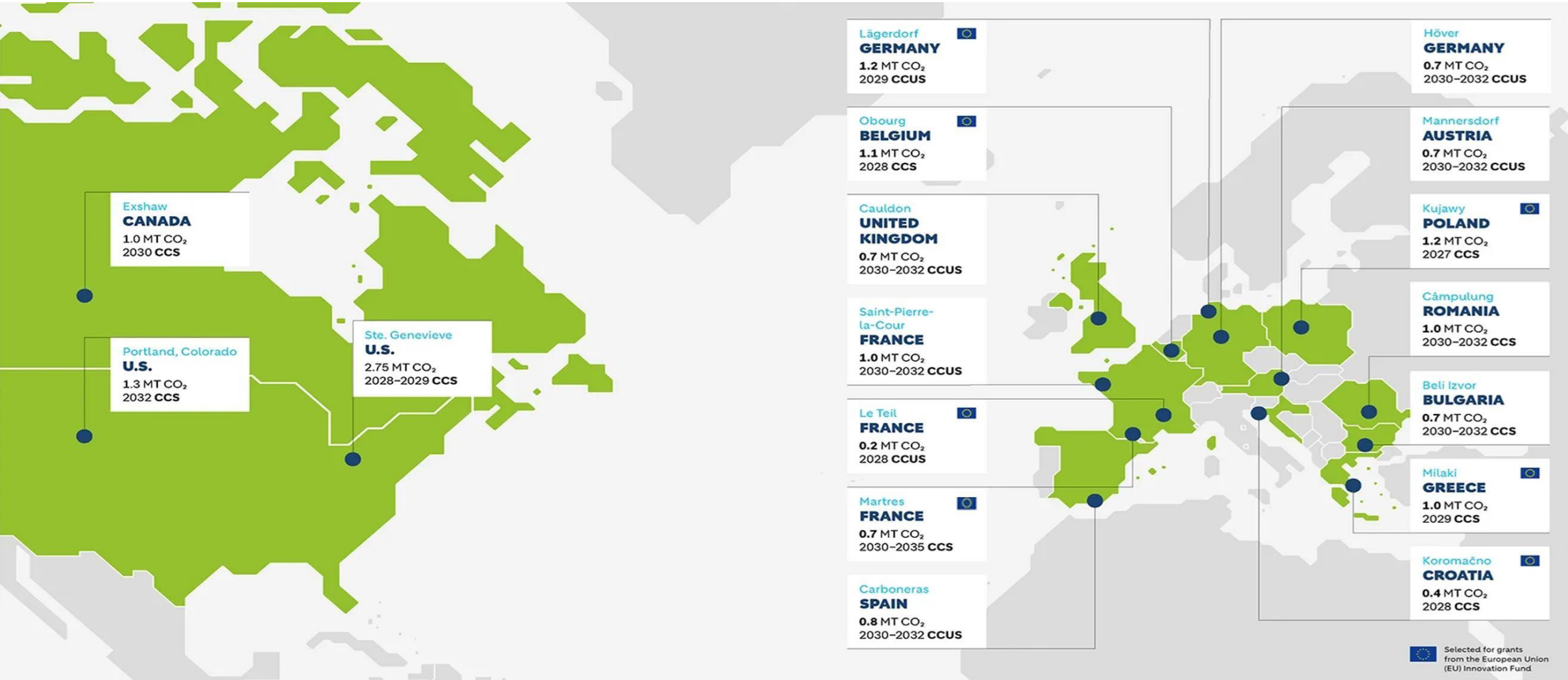


17 FLAGSHIP CCUS PROJECTS

CHF 2 BILLION CAPEX BY 2030 TO CAPTURE 5M+ TONS OF CO₂/YEAR



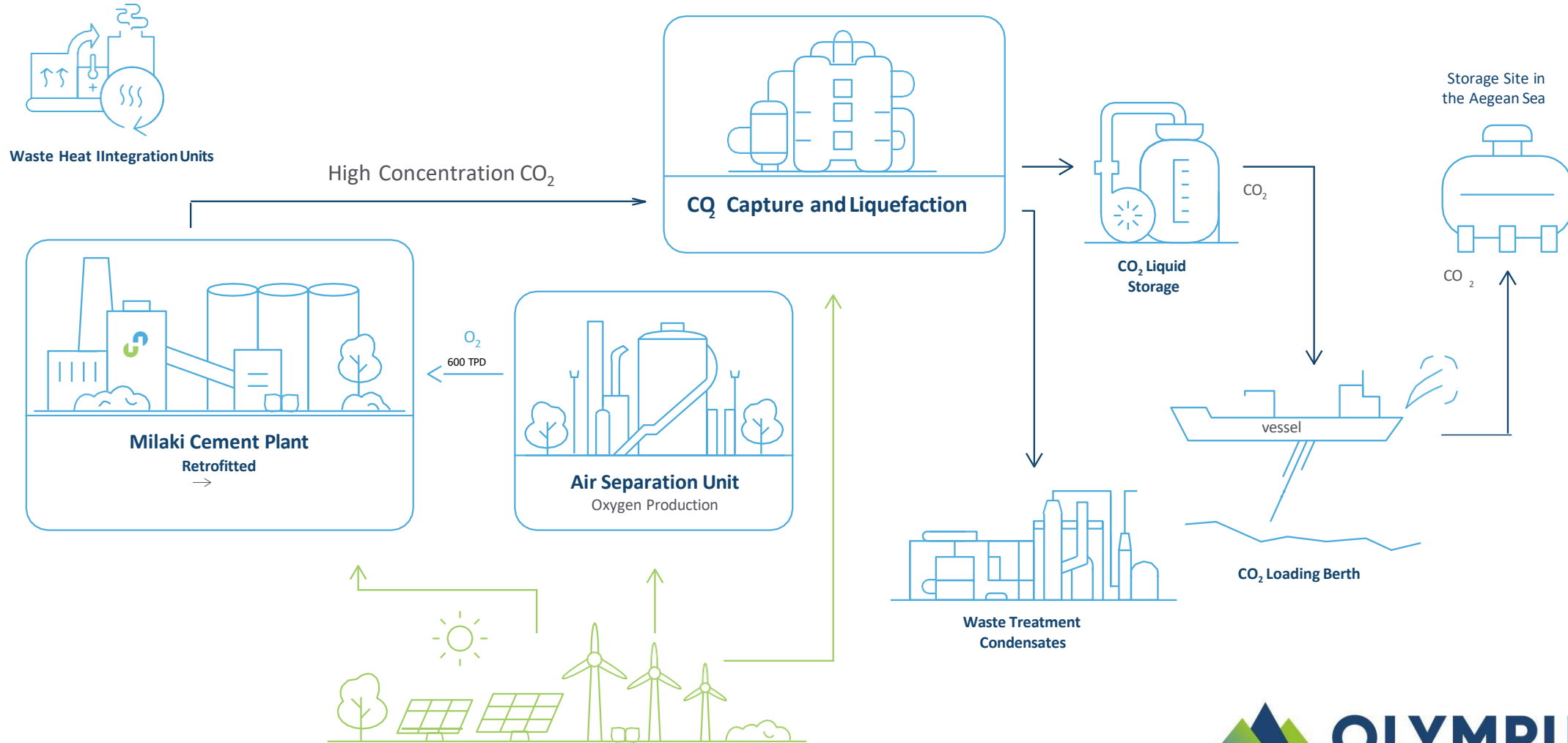
From storage and utilization, including mineralization and carbonation



Selected for grants from the European Union (EU) Innovation Fund

DECARBONISING GREECE

OLYMPUS - Greece



DECARBONISING GREECE

OLYMPUS - Greece



OLYMPUS key figures

- 1 mtns of CO2 sequestrated
- Improved environmental footprint
- Commissioning @ Q4 2028
- EiO @ Q1 2029
- 90% substitution of Fossil Fuels
- + 300% on Alternative Raw Materials
- 0 Fresh Water Consumption
- x3 electricity demand
- 100% powered by RES & WHR

OLYMPUS Design

- Capitalizing on process and location advantages
- Pilot projects results evaluation
- Innovation Workshops

DECARBONISING GREECE

OLYMPUS - Greece



Challenges

- FID alignment of the value chain
- Adequate storage @ viable price
- CO2 specifications
- Financing
- Cost Control of equipment & construction
- Competent suppliers scarcity
- RES & Grid availability
- Market volatility (CO2 & energy price)
- Value Chain de-risking
- Permitting process
- Risks mitigation via insurance tools

Opportunities for GREECE

- Alignment with National & EU decarbonization targets
- Assume leadership role in climate action, turning it to an opportunity for growth
- Creating new highly valued job opportunities and the relevant expertise through R&D and upskilling
- Develop an efficient value chain & develop it to a Green Innovation Ecosystem

