



# Panel I - Industrial Strategy

## Decarbonizing the Planet

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Southwest Research Institute, San Antonio, TX*

# Our new Strategic Plan: 4 Pillars...

# ADVANCE / / / /



Delivering  
strong financial  
performance



Decarbonizing  
the planet



Unlocking  
progress  
via technology



Acting  
for all



## For our operations

~2025

**Inflection of CO<sub>2</sub> emissions**  
in absolute value

~20%

**Air Liquide Fleet** converted  
to **alternative fuels** by 2025



## For our customers

~50%

**of investments in Energy Transition<sup>(1)</sup>**

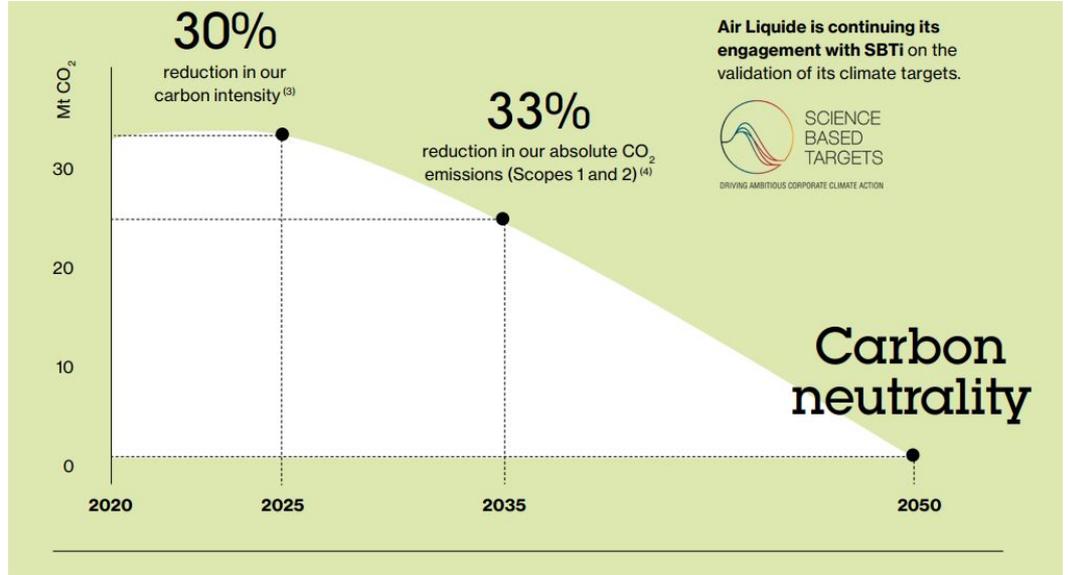
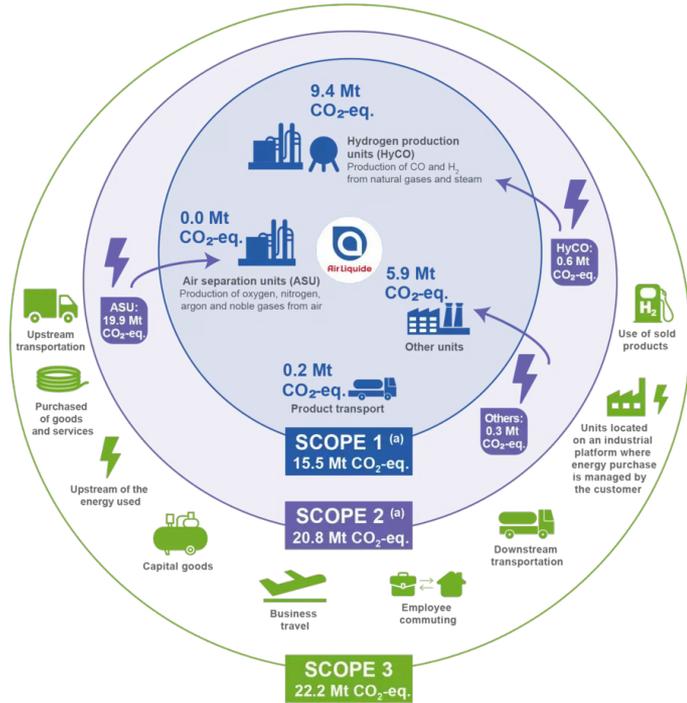


## For our employees and shareholders

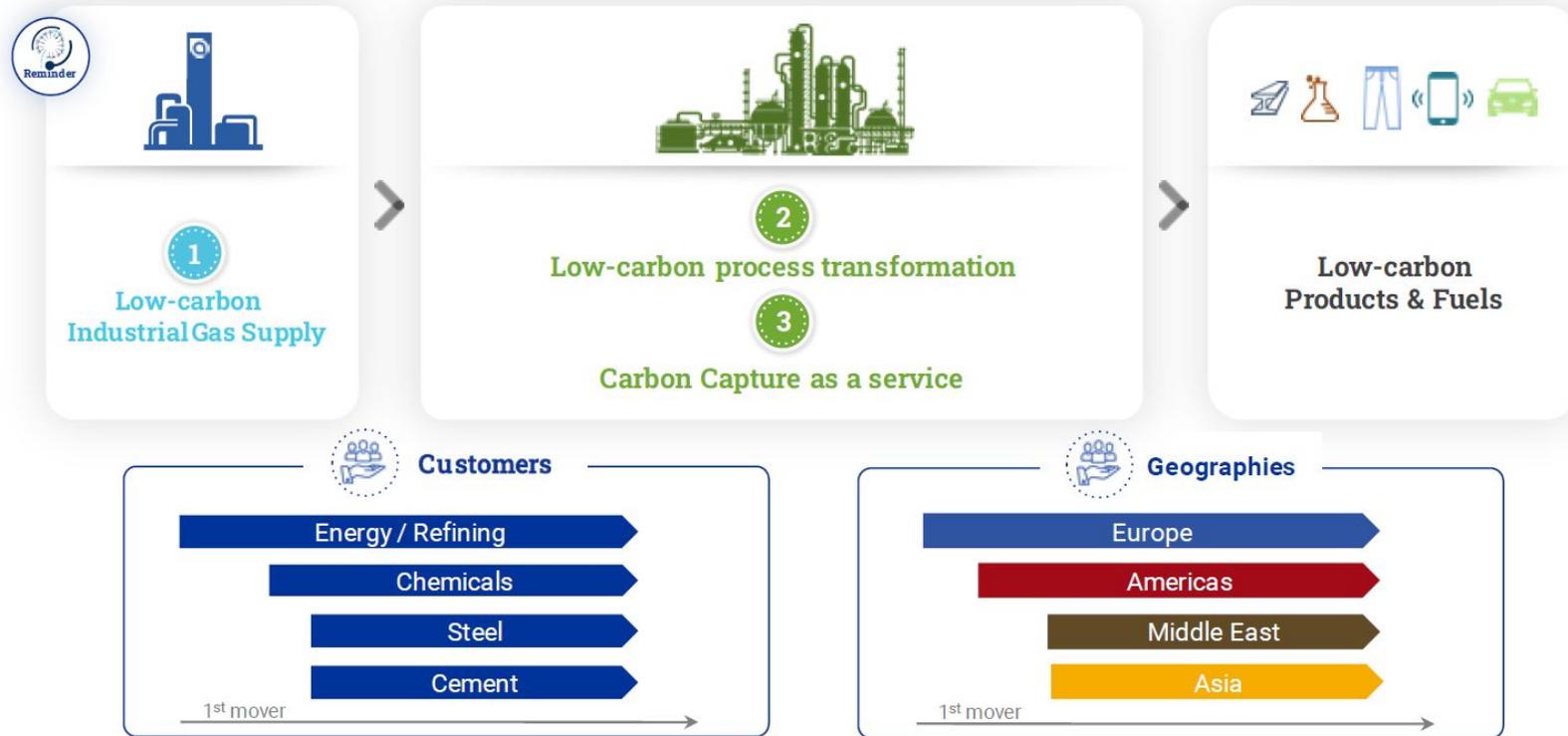


*(1) among industrial investment decisions for projects >€5m*

# Air Liquide's Scope 1 and Scope 2 Emissions



# Air Liquide Solutions along the Low Carbon Chain



# Carbon Capture Projects

- US DOE funded FEED studies for two industrial scale carbon capture projects at Air Liquide SMRs
- US-DOE funded a FEED study led by the University of Illinois with LafargeHolcim and Air Liquide for commercial-scale carbon-capture study, based in Ste. Genevieve, Missouri



# Nevada Liquid Hydrogen Plant

- Located in North Las Vegas
- 30 tonnes of liquid hydrogen per day
- Uses SMR technology using RNG as a feedstock
- \$250 million in the North Las Vegas facility and logistics infrastructure
- Commissioned in April 2022



# Becancour PEM Electrolyzer Plant

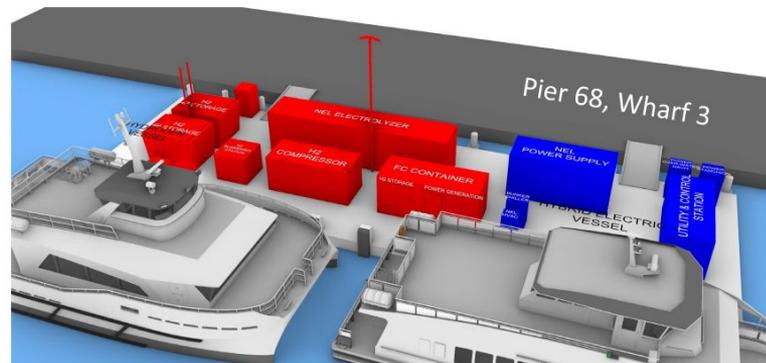
- Powered by renewable electricity, 8.2 tonnes of hydrogen production
- Commissioned in Dec 2020, world's largest PEM electrolyzer in operation
- Uses Cummins PEM electrolyzer technology, 20 MW



# Decarbonization of Transportation Sector



Airgas is piloting two heavy duty hydrogen fuel cell trucks, including one 100 kW fuel cell truck and the first Hyzon 200 kW hydrogen fuel cell powered truck to be tested commercially



Demonstration of a first of its kind Maritime Hydrogen Refueling Infrastructure on water with refueling capabilities of up to ~ 500 kg H<sub>2</sub> /day.

Demonstration of the feasibility and viability of hydrogen production, storage, and fueling in a maritime context



# Thank you