

THE FAST TRACK TO THE HYDROGEN ECONOMY

# EUROPEAN HYDROGEN ENERGY CONFERENCE



**EHEC**  
**2024**  
EUROPEAN HYDROGEN ENERGY  
CONFERENCE

**AeH<sub>2</sub>**  
SPANISH HYDROGEN  
ASSOCIATION

**AIR  
PRODUCTS** 



**CARBUROS  
METALICOS**  
*Grupo Air Products*

Generating  
a Cleaner Future





# A worldwide leader in the industrial gas industry for more than 80 years



**\$12.6 billion**  
In FY23



**+60**  
Years of experience  
in hydrogen



**+250,000**  
Customers



**+50**  
Countries



**+750**  
Production  
facilities



**+23,000**  
Employees



# A leading company in the industrial & medical gases sector

for more than 125 years



126

Years of business activity



+30

Industries Served



31

Production facilities



+800

Employees



2

High purity laboratories



1

R&D centre



# THE WORLD LARGEST HYDROGEN SUPPLIER

leading the transition

to low carbon hydrogen production



>60 years  
of hydrogen  
experience



8,000 tons/day  
of hydrogen  
production in 110 plants



At the forefront  
of hydrogen energy  
technology development

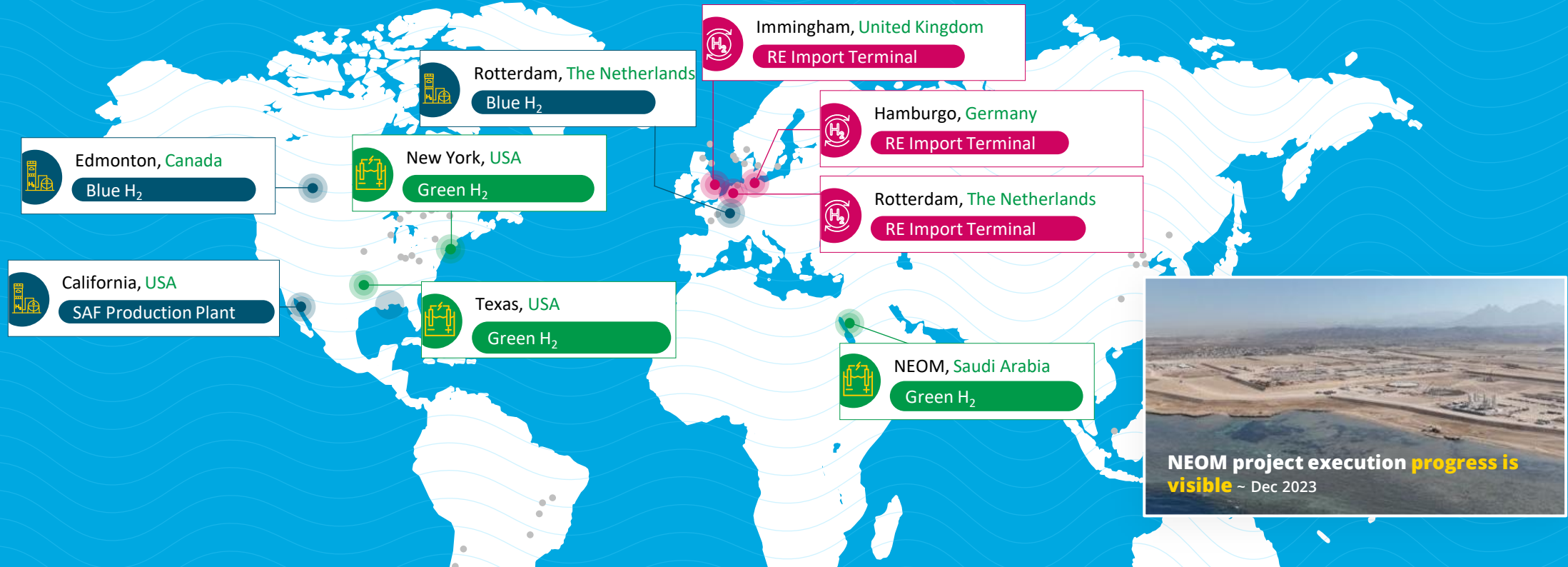
MEMBER OF :





is investing

in the production of new low carbon blue & green hydrogen to lead the transition



**\$15 billion**  
in energy transition projects

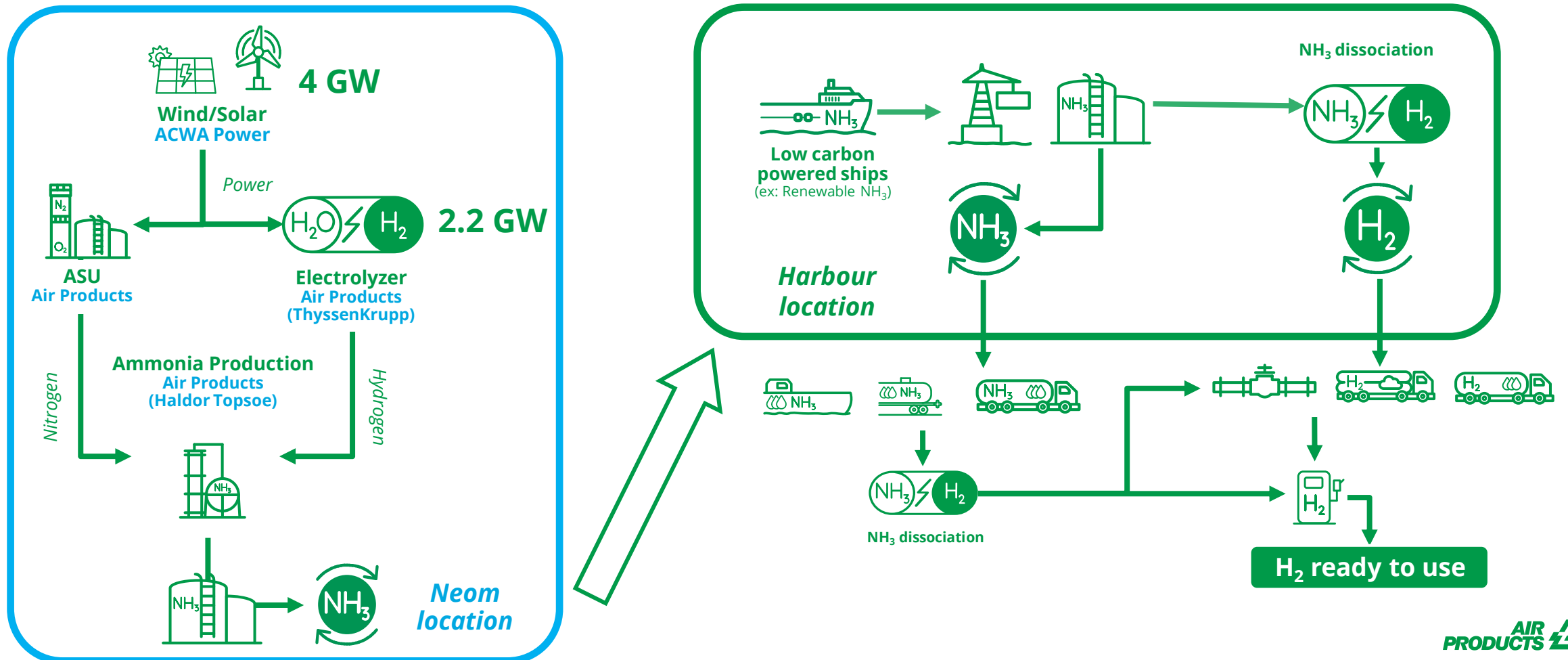
**>1,000 tons/day**  
of green hydrogen

**>2,500 tons/day**  
of blue hydrogen

# NEOM green hydrogen project

Investment \$8.4 billions

Supplying global customers with 650 tons/day green H<sub>2</sub>





3 NEW

import terminals in Europe

to support European hydrogen production capacity



UK - Immingham



NL - Rotterdam



DE - Hambourg



**Full infrastructure** to import large quantities of renewable energy



**Very large unique storage tank:** will store imported renewable energy in the form of green ammonia



Once the molecules are available,  
we need to have **refuelling systems**





**>250**

hydrogen refuelling  
projects



**+20**

Countries



has a very long history

in setting up hydrogen  
refuelling systems



**~50**

Patents  
Hydrogen Fuelling



**+30**

Years  
Safe Fuelling

We need to have high capacity, high reliability stations for buses and trucks

at reasonable intervals along key thoroughfares

We have already started



**AIR PRODUCTS**

**H<sub>2</sub><sup>f</sup>M**  
Hydrogen for Mobility

Aers Energy België selects Air Products as hydrogen partner in Zeebrugge

Air Products announces its intention to build and operate its first hydrogen fuelling station in Belgium.

First of its kind in Europe using liquid hydrogen.

The public fuelling station for heavy duty vehicles will become operational at Exit 19, A11 @ Zeebrugge.

Follow us on:

&

MANY MORE

TO COME !



# Our hydrogen refuelling solutions

are tailored to market needs



**Gas based  
Station (350 bar)**  
Up to 1 ton/day  
Buses Small Fleets



**Liquid based  
Station (350 bar)**  
Up to 5 tons/day  
Buses Large Fleets



**Multimodal  
Station (350 & 700 bar)**  
Up to 5 tons/day  
Buses & HDV Fleets



Mobile refueler

# A solution for trials and short-term requirements: Our mobile refueler

Vehicles	Vehicles Served	Cars, Buses & Trucks
Technical	H2 Source	Gaseous Hydrogen
	Capacity	400 – 800 kg per tube trailer
Dispensing	Fill time	~20 min
	Dispenser type	H35 (350 bar, gaseous)
Site requirements	Space Requirement	● ● ● ● ●
	Power Consumption	<0.1 kWh/kg



37<sup>TH</sup>  
AMERICA'S CUP  
BARCELONA



Generating a Cleaner Future

OFFICIAL HYDROGEN SUPPLIER





# WE NEED TO ACT NOW !

We only have few years to give us the capacity to reach the ambitious objectives set by the EU



**Domestic  
renewable H<sub>2</sub>**

**10 million tons of H<sub>2</sub>  
by 2030**

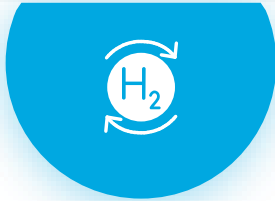


**Imported  
renewable H<sub>2</sub>**

**10 million tons of H<sub>2</sub>  
by 2030**

# 3 THINGS

that we need legislators to do  
to achieve those targets



**Stimulating**  
market demand  
for clean hydrogen



**Focus on**  
accomplishment of the  
decarbonization targets



**Ensure**  
equal treatment for imports  
& domestic H<sub>2</sub> production  
(RFNBO fulfillment)



we are making

sustainability a reality



To reduce our Scope 1, 2, 3 carbon emissions by 30% by 2030



To achieve zero carbon emissions by 2050



To fully decarbonising our fleet of ~ 3000 vehicles by 2030



To procure H2FC vehicles for our fleet



To deploy the necessary public HRs to meet the needs of our fleet and the market

**WE NEED TO ACT NOW !**

**Together**

we can best partner to ensure that we can deliver  
on EU decarbonisation targets

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