

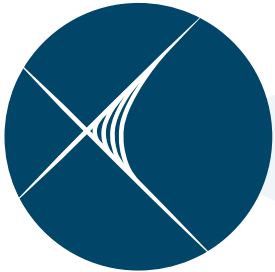
Power2X

Developing World-Scale Green Hydrogen Assets

16 December 2024



Power2X: Creating world-scale clean Hydrogen assets



POWER2X
LEADING IN ENERGY

Founded in 2020, focus on large-scale clean molecule projects

Today ~100 FTE


CPPIB – 600\$B Pension Fund as lead investor



Our focus areas



**SAF /
Methanol**



**Industrial
hydrogen in
NL and GER**



**Business
development
& consulting**



**Safe and
competitive
execution
and delivery**



Power2X develops world-scale green molecule projects to accelerate the green energy transition



Power2X eFuels Rotterdam
>250 ktpa eSAF



Power2XEstonia
500 ktpa bio/e-Methanol



ErasmusPower2X
650MW Green Hydrogen



Madoqua Power2X
GW-scale green ammonia



Power2X Advisory

Global consulting and advisory services
for energy and industry decarbonisation



Power2X eFuels Rotterdam

World-scale eSAF



Power2X: Sustainable Aviation Fuel (eSAF) production facility

Rail & truck logistics node

Advario: Sustainable fuel logistics, handling and distribution

Road network

Pipeline network

Rail network



Globally sourced e-Methanol and locally produced green H₂ feedstock



250+ ktpa eSAF production



230 000 m³ logistics and storage capacity

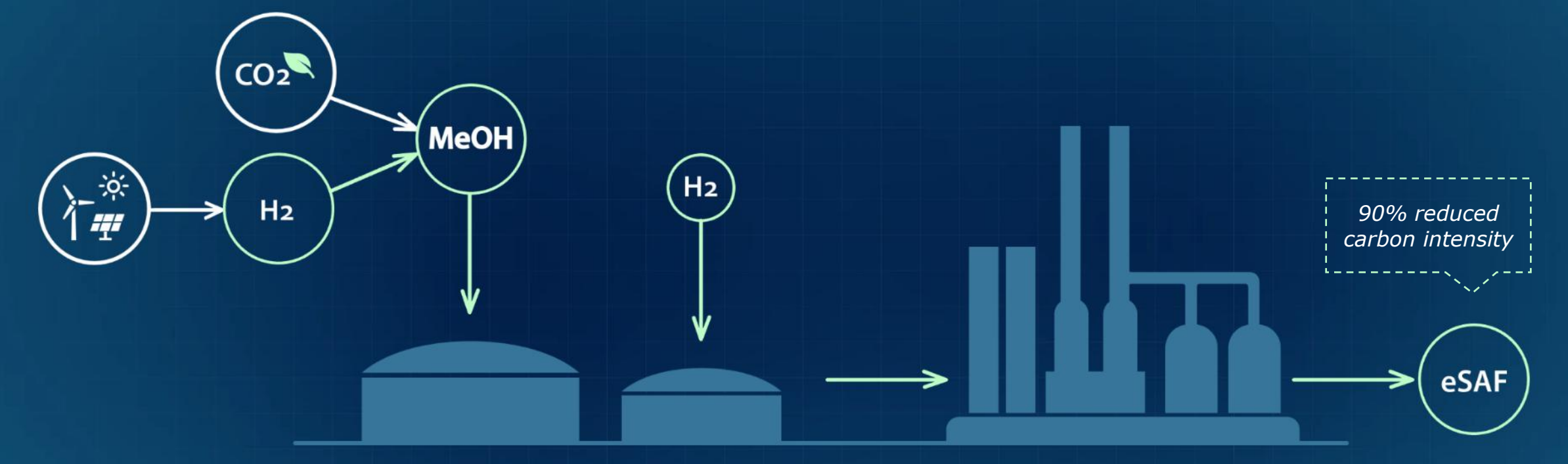


Existing nature **permit**, including **NO_x**



Start-up around the **turn of the decade**

Mandated offtake from eFuels Rotterdam enables development of large clean power-H2-eSAF value chain



Imported methanol feedstock

Product

Power

H₂ production

Biogenic CO₂

eSAF

2 GW
~7.5 TWh

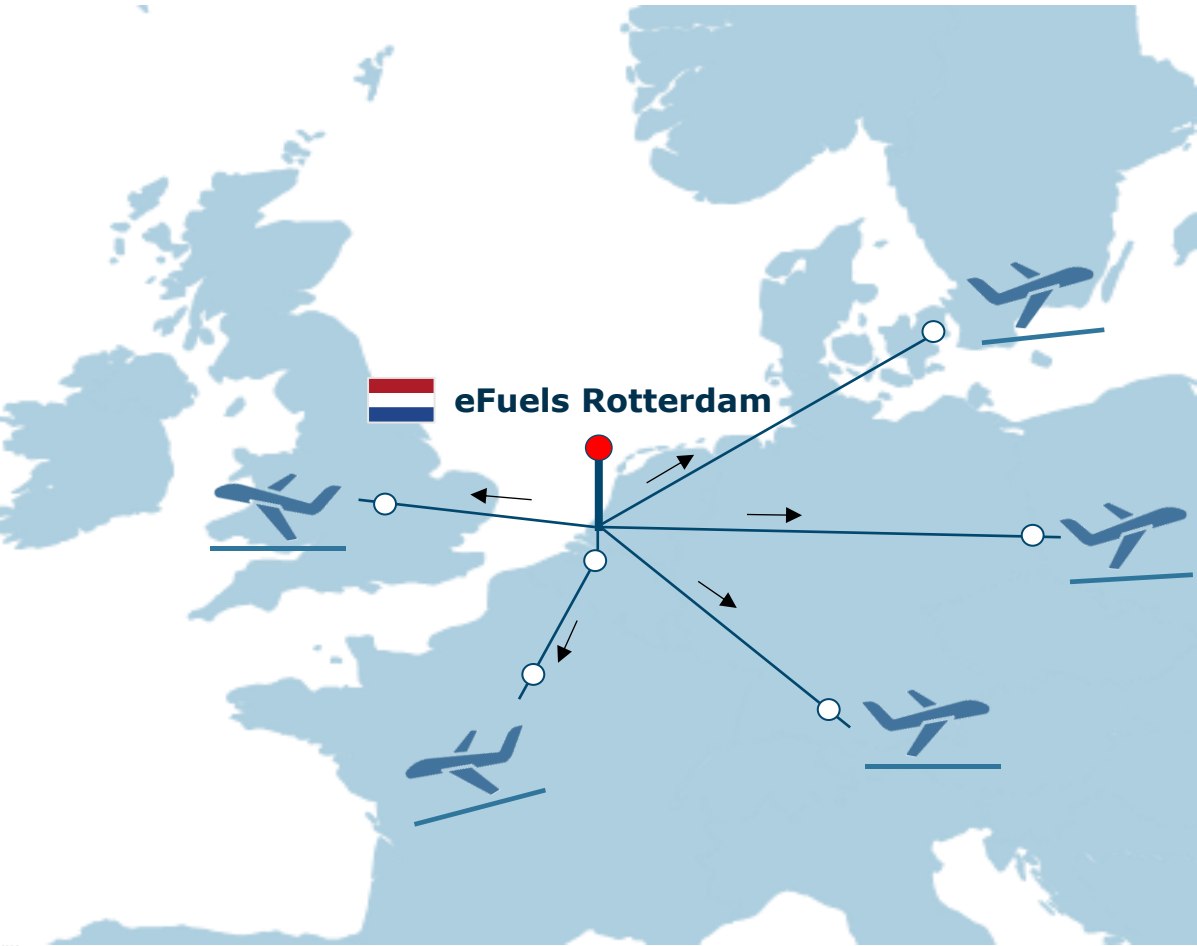
1.4 GW
140 ktpa

1 Mtpa

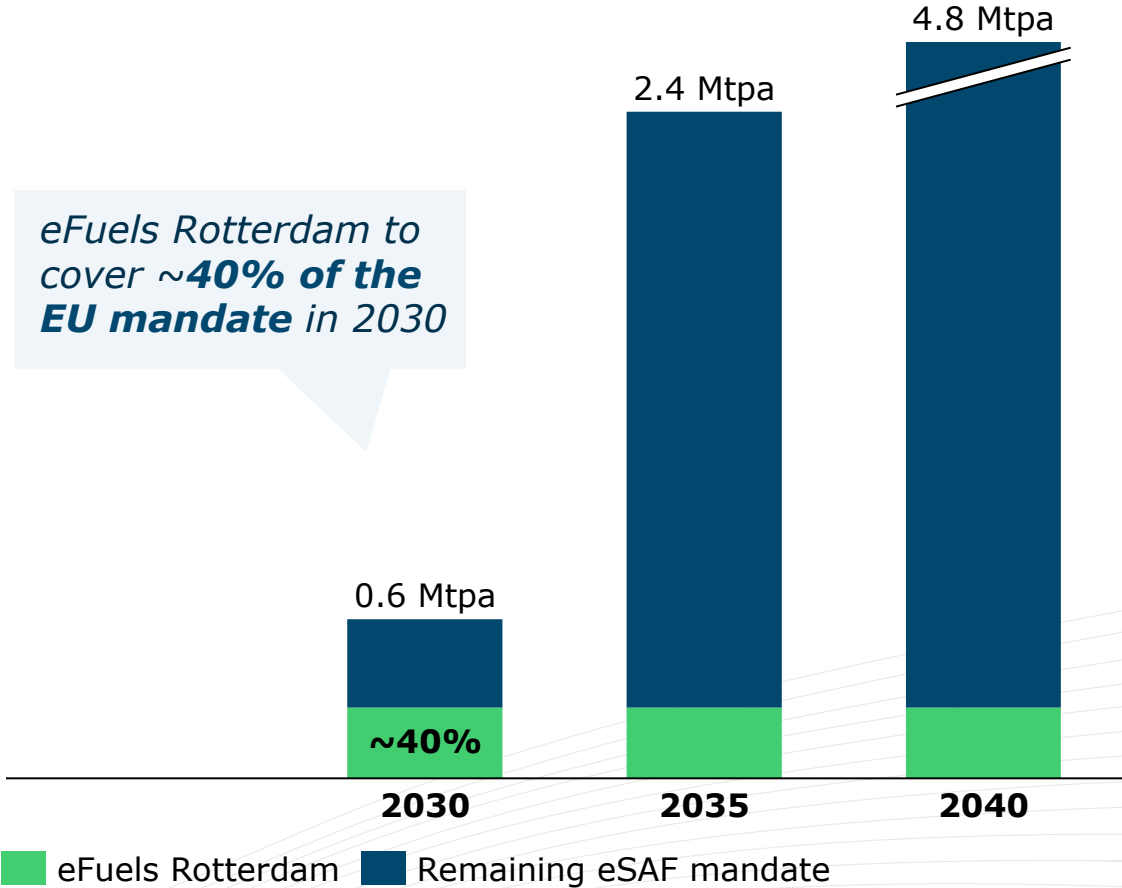
>250 ktpa



eSAF will be exported to European airports, fulfilling ~40% of the 2030 RefuelEU Aviation mandate



eFuels Rotterdam to cover ~40% of the EU mandate in 2030



Key ingredients in place for a successful project

2. World-scale

- Economies of scale and efficient processing
- Rejuvenating industrial site in the Port of Rotterdam

1. Strategic location

- Strategically located in the port of Rotterdam near major European airports
- Existing connections to pipeline, waterways and rail

3. Advantaged feedstocks

- Global sourcing of feedstocks leverages locations with advantaged fundamentals



Scaling eSAF today unlocks a unique opportunity to the EU

New supply chains



Renewable energy can be imported from advantaged geographies to decarbonize EU's transport sector

Industrial innovation



e-SAF production could become a key domestic industry to the EU

Global market



Europe could access a global eSAF market reaching EUR 350+ bn per annum by 2050



Critical foundations for success



Market, mandates,
policy and regulation

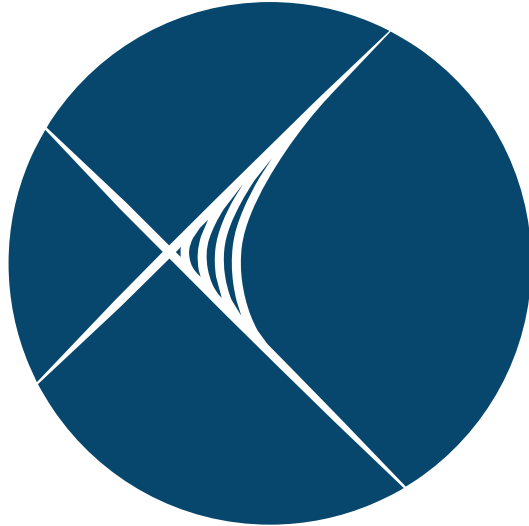


Financial frameworks
supporting green growth



Permitting & infrastructure





POWER 2X
LEADING IN ENERGY