



ICAO

STOCKTAKING 2021



Karl Hauptmeier,
Managing Director, Norsk e-Fuel AS

NORSK E-FUEL

Supplying your Renewable Fuel.
Unlimited

2021

Karl Hauptmeier

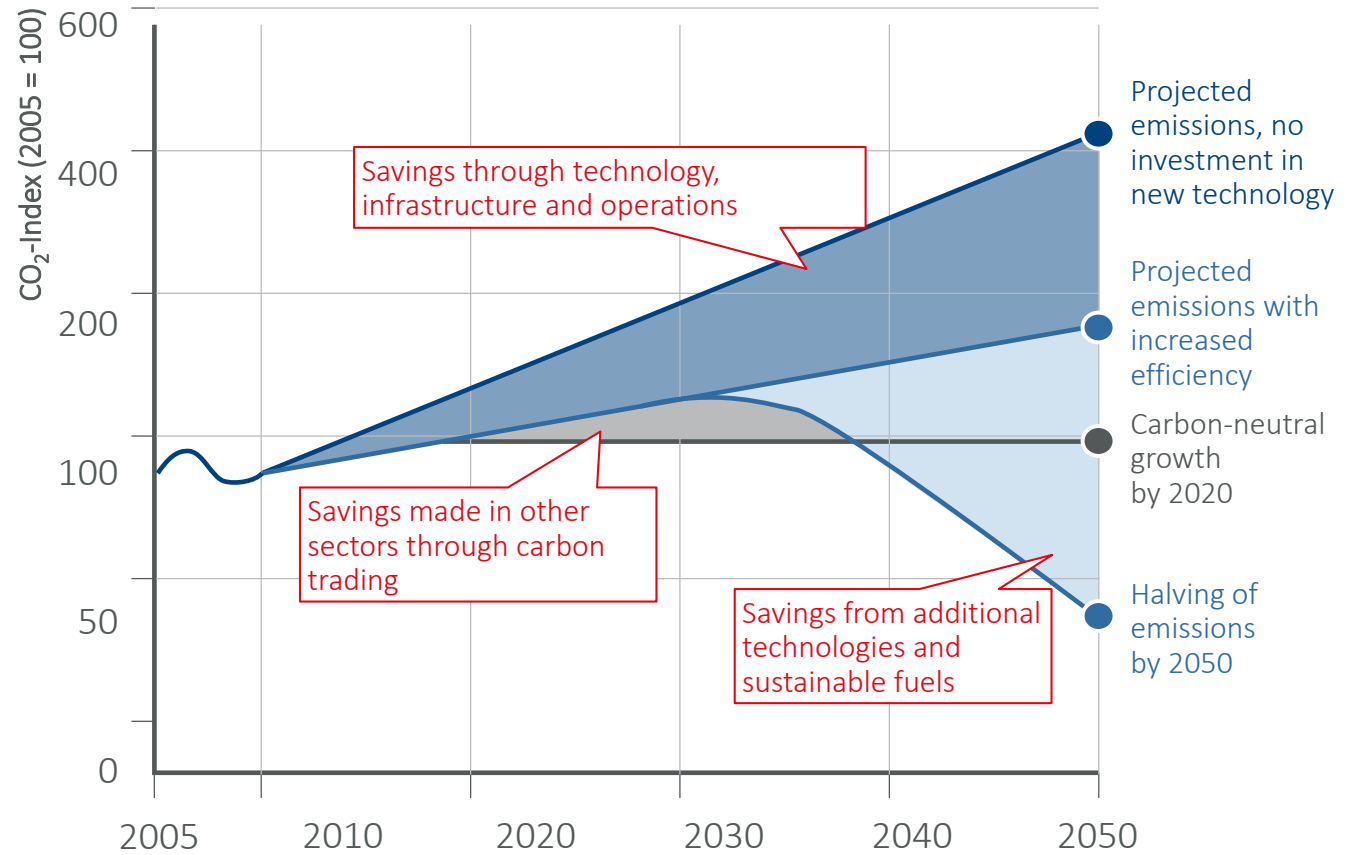


THE AVIATION INDUSTRY



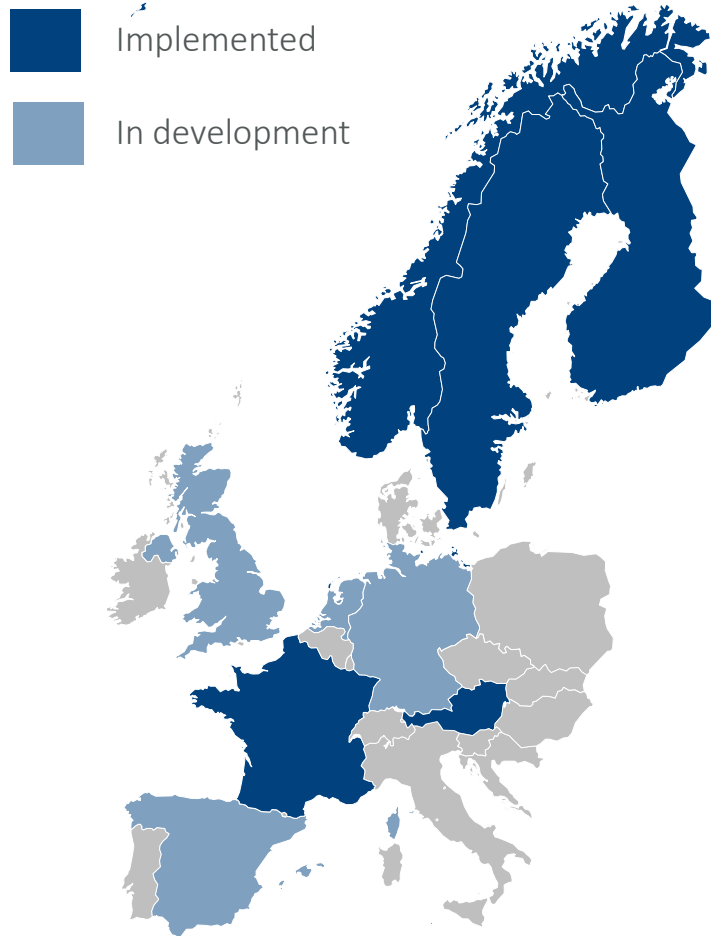
80% SAFs required to reduce emissions by 50%

SAF needed to achieve climate goals



REGULATORY FRAMEWORK FOR SAF

PtL sub-quotas to kick-start development



ReFuelEU Aviation until 12/2021

| Current draft proposes a blending mandate for hydrogen-based aviation fuels of **0.7 % (2030)**; more recent discussions hint at **2 %**.

BImSchV until 06/2021

| Fuel suppliers must ensure a minimum share of sustainable aviation fuel produced via electrolysis: **0.5 % (2026), 1 % (2028) and 2 % (2030)**.

Other EU Member States until 12/2021

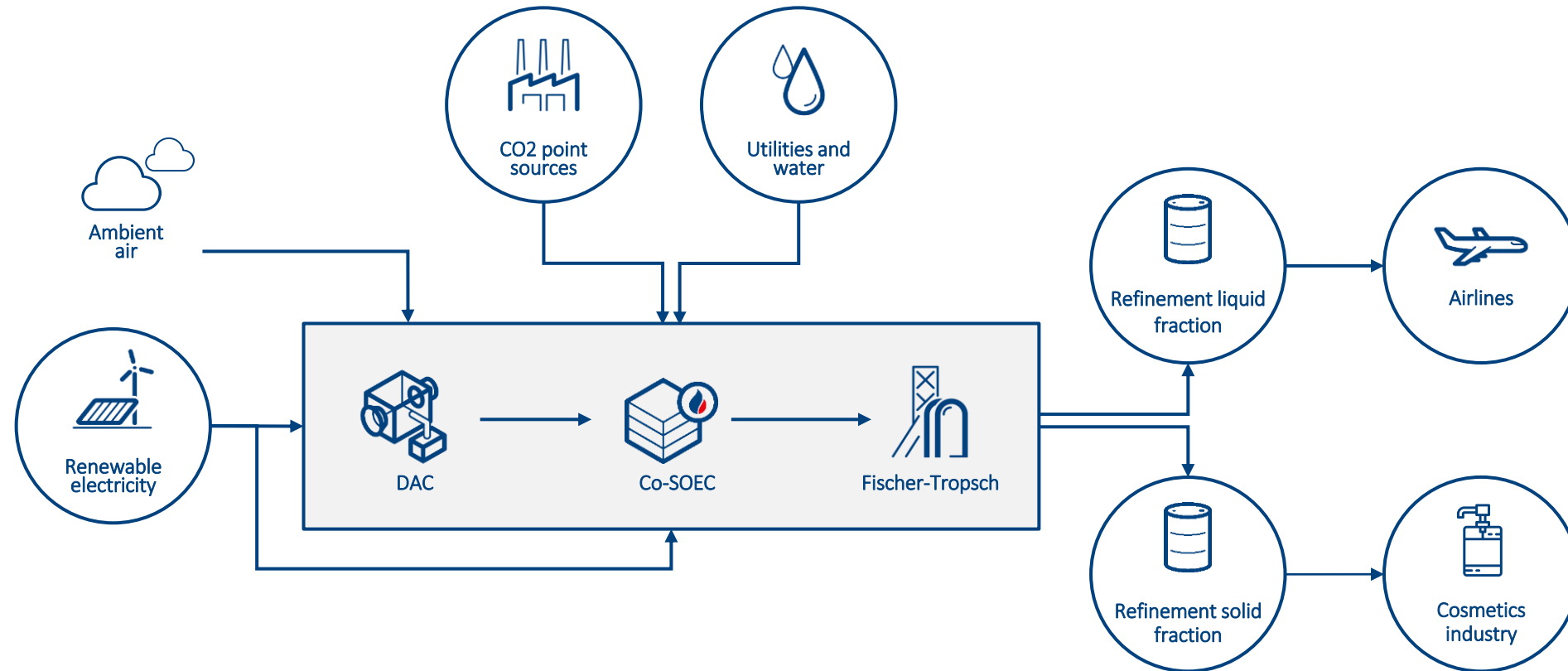
| Similar legislation in preparation to convert RED II requirements into national law.

2030 Market Potential within EU



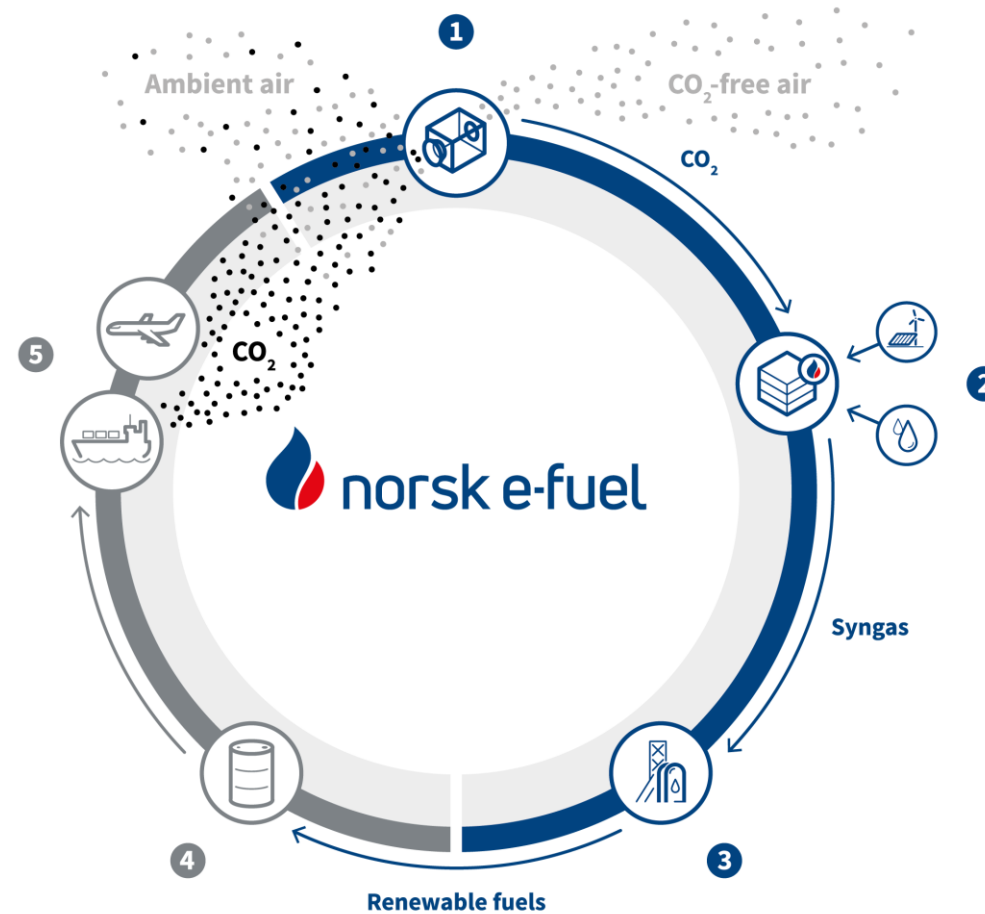
POWER-TO-LIQUID VALUE CHAIN

Complex projects and demanding technology ask for strong partnerships



THE NORSK E-FUEL CONSORTIUM

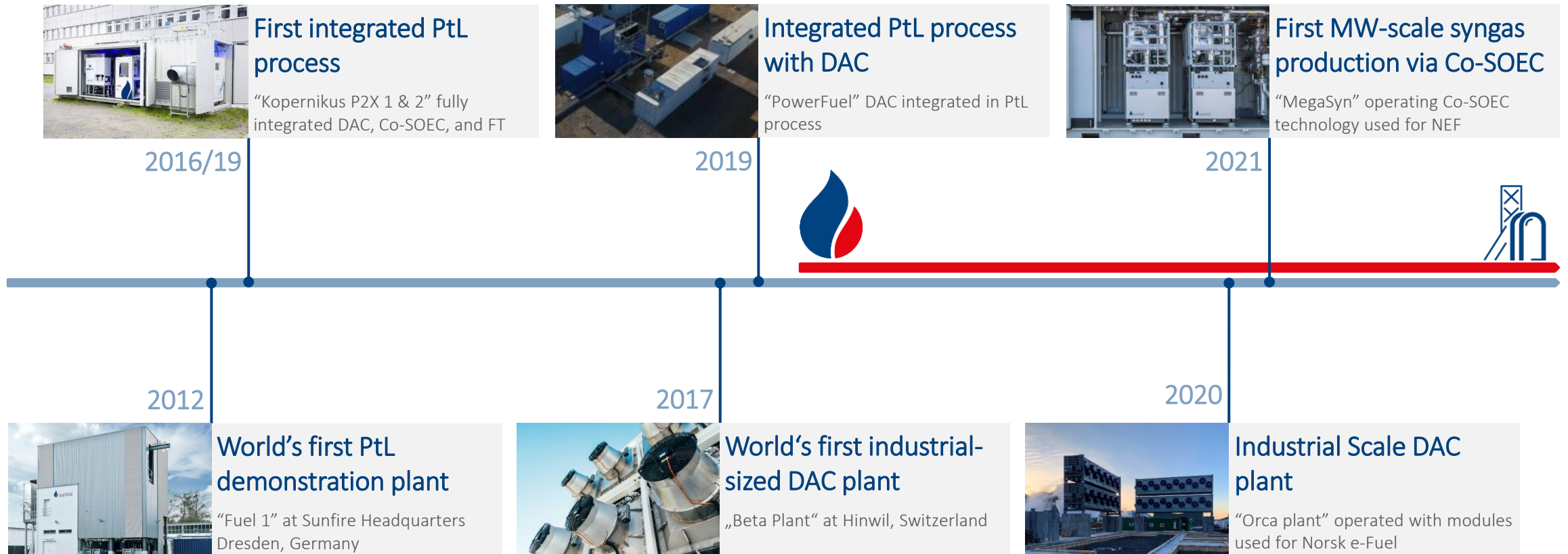
Closing the Carbon Cycle



- 1** Capturing pure CO₂ from air
- 2** Syngas produced from CO₂ and water using 100% renewable electricity
- 3** Renewable fuels generated from syngas
- 4** Refined to final product
- 5** Utilisation of renewable fuels releases CO₂ back into the atmosphere

READY FOR IMPLEMENTATION

Examples of a decade long track record in PtL by our innovative technology experts



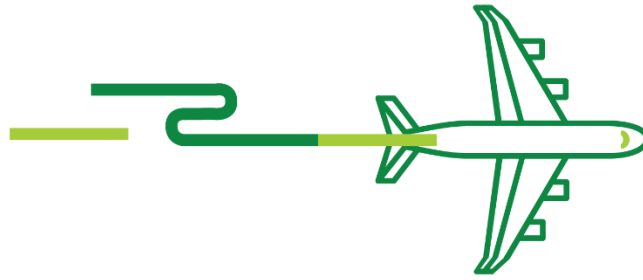
THANK YOU.

Karl Hauptmeier

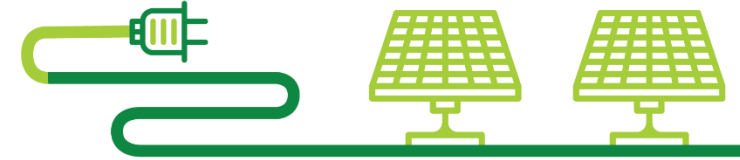
khauptmeier@norsk-e-fuel.com

www.norsk-e-fuel.com





AVIATION CO₂ REDUCTIONS



PRE-STOCKTAKING WEBINARS

TECHNOLOGY · OPERATIONS · SUSTAINABLE AVIATION FUELS

