



# SkyNRG – Overview SAF progress market and technology

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# The aviation industry faces 3 big challenges

1

Aviation will remain and society demands sustainability



Aviation needs will grow in emerging economies, existing market will **demand sustainability**

2

Environmental impact of the aviation industry is significant



Without timely action the aviation industry could consume up to **22% of the global carbon budget** in 2050

3

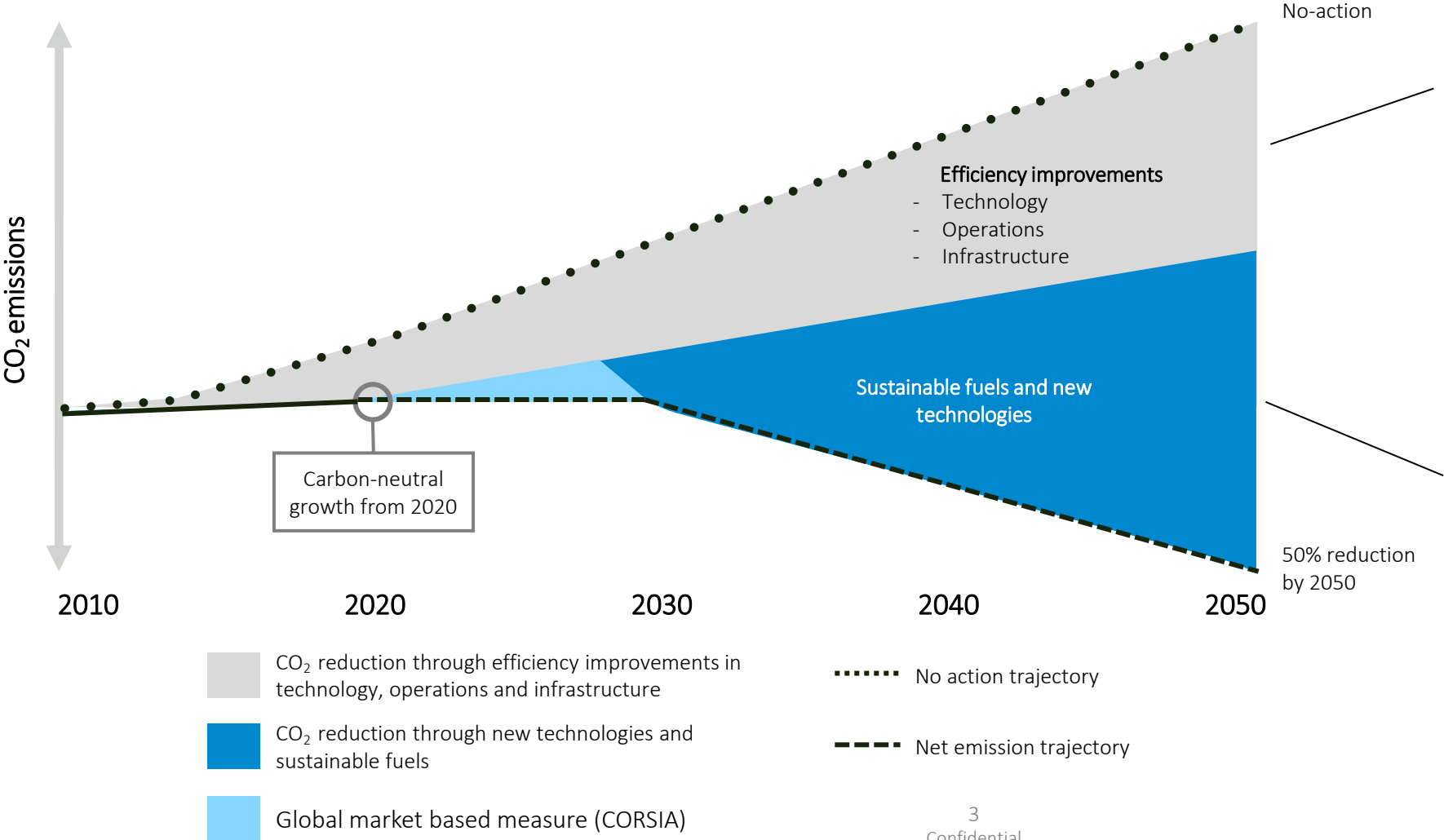
Other technology alternatives are limited



It will take **multiple decades** before serious liquid fuel alternatives are commercial available

# The sector needs to reduce emissions drastically, but has extremely limited options

## SAF is the only real solution available for the near term

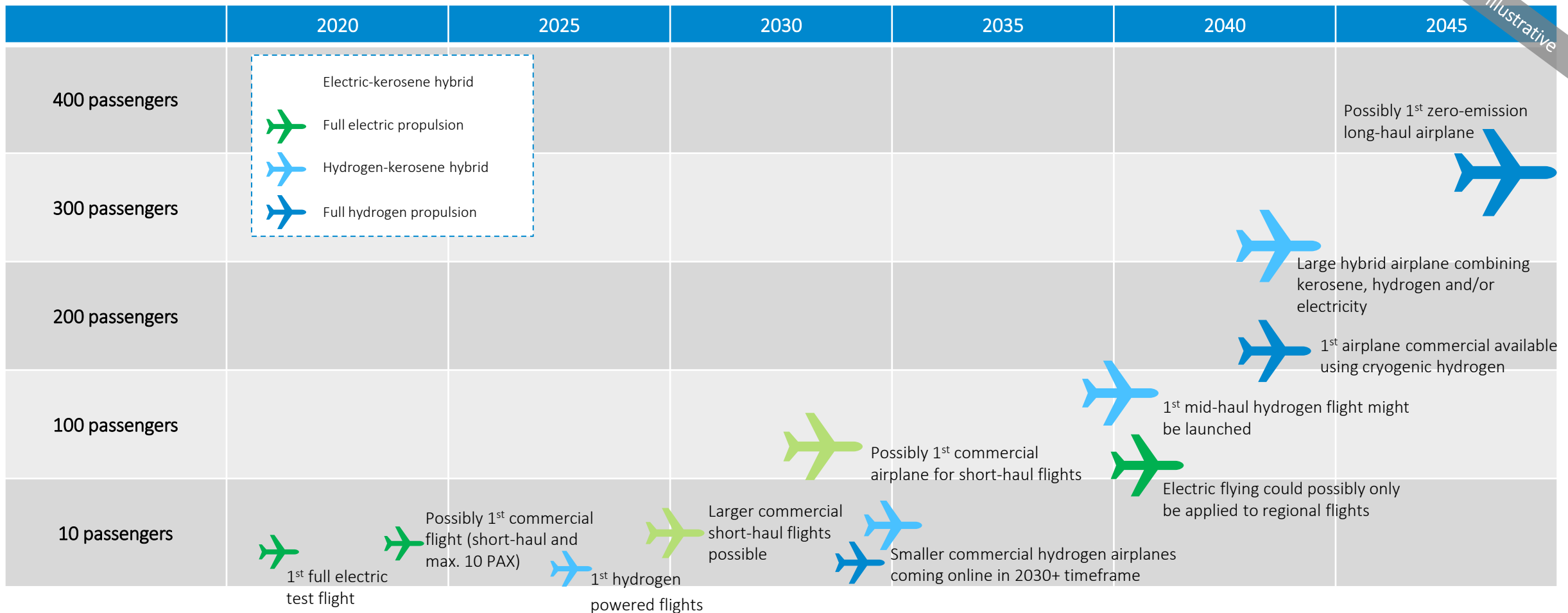


There is still significant room for improvements in existing operations and technology

However, to meet the required carbon reduction levels there is need for serious volumes of Sustainable Aviation Fuels (forecast: >300 million tons in 2050)



# Sustainable propulsion alternatives are expected to commercialize from 2035 onwards in hybrid formats



Illustrative

# In the last 10 years SkyNRG has pioneered SAF down stream logistics & customer programs

## We are now moving into scaling capacity due to global SAF shortage

### Short term focus

SkyNRG has successfully taken a demand aggregation approach, with the main aim to get the initial commercial SAF volumes to the market



**SAF sourcing**



**Blending and quality assurance**



**Into wing delivery**



**Co-funding the premium**



**Ensuring the sustainability**

### Long term focus

The market need will shift from proving the concept to scaling capacity. SkyNRG will use its knowledge and customer base to get production plants built



**Development of first SAF production plant: DSL-01**



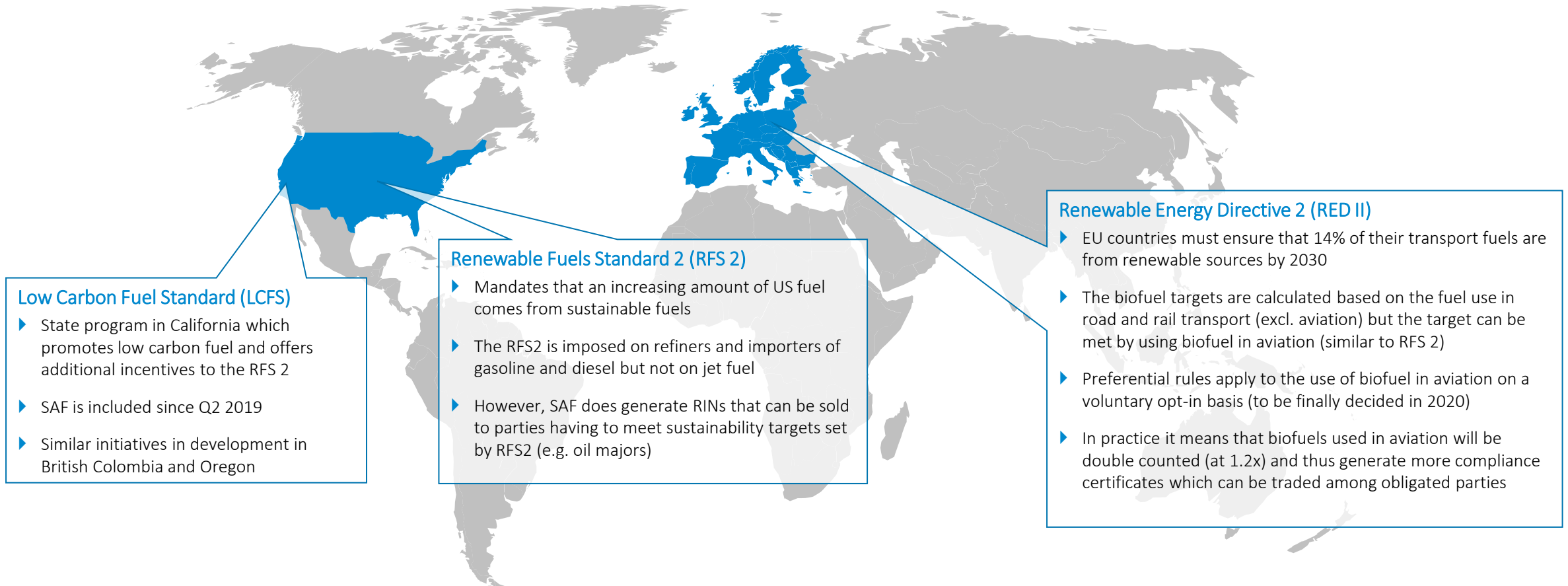
**Stay involved in all novel SAF technology developments**



**Setting up and executing on new DSL projects around the world**

# Both the US and the EU have incentive schemes in place that enable support SAF demand through a voluntary opt-in – opportunities now to translate national legislation

## Overview of incentive schemes applicable to aviation



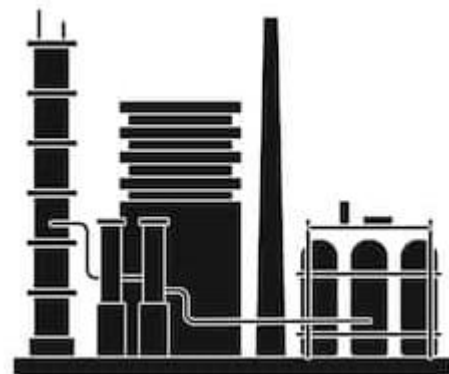
# Every Sustainable Aviation Fuel supply chain is basically the same

## Minimum requirements for a SAF business case in Europe

Fit with the Renewable Energy Directive II

Technology Readiness Level

ASTM certification



There is a mismatch between pushed feedstock technology combinations within policy (RED II, Annex IX) and Technology Readiness Level of these pathways. Additional policy measures are necessary to bring these 'advanced' pathways to the market.

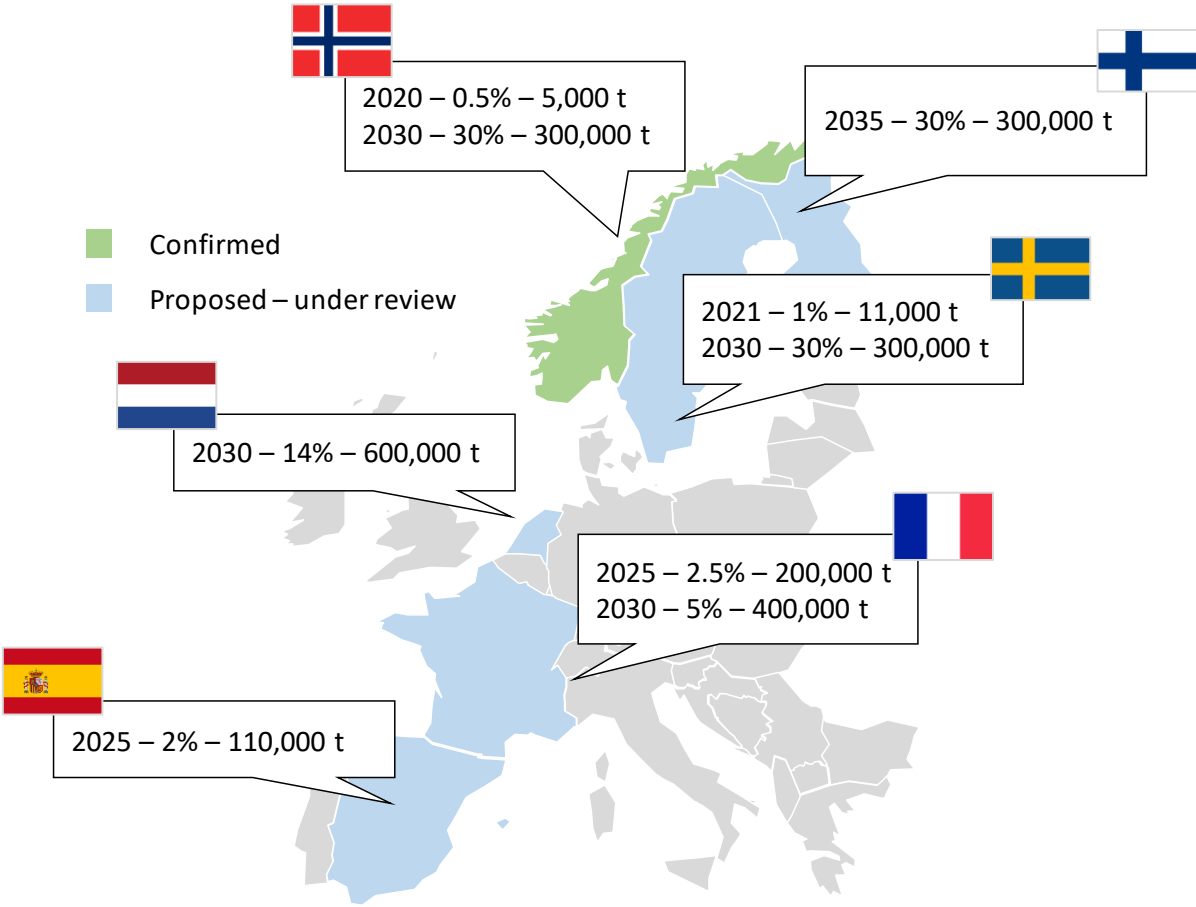
## To reach real impact scale for the aviation sector you need

Feedstock availability

Price competitiveness

# Several countries are in the process of mandating the use of SAF, which will be an essential driver for demand, additional policy stimulating advanced tech is necessary

- ▶ In the last year, multiple European countries started considering a national blending mandate for the use of SAF
- ▶ A possible next step could be a European SAF mandate, part of the ongoing discussions on the Green Deal and supported by more and more stakeholders





Thank you!

Please contact us at any time

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