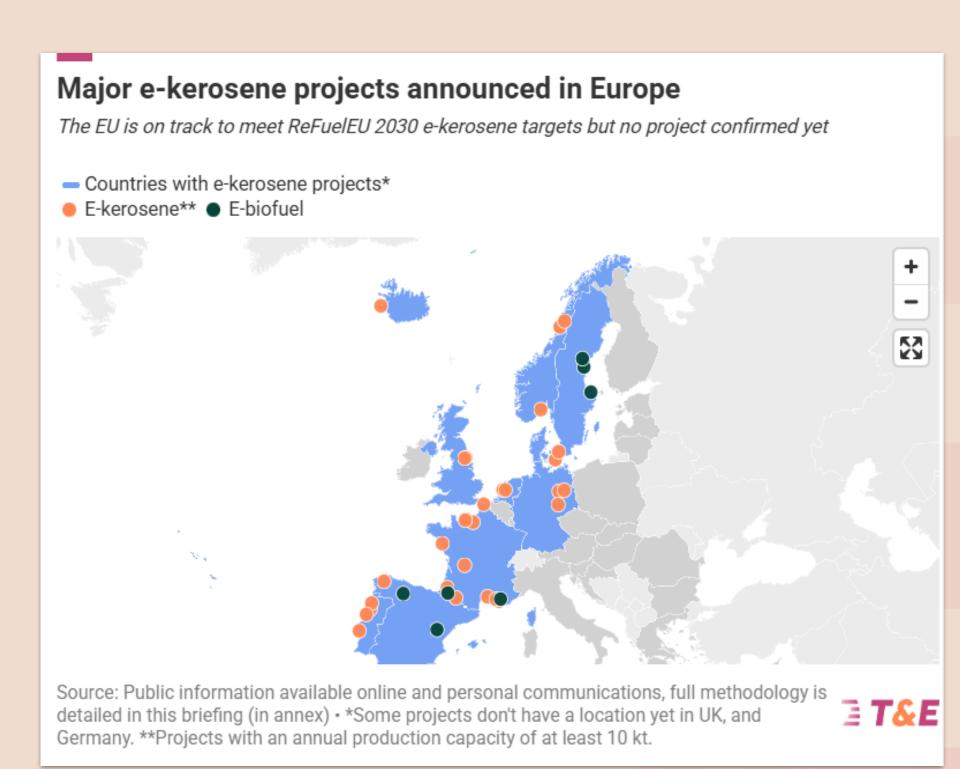
From the Green Deal to the Clean Industrial Deal

Opportunities to unlock e-SAF production in Europe



Setting the scene

- 0.6 Mt by 2030 and 1 Mt by 2032
 mandated e-SAF through ReFuelEU
- 30+ industrial-scale e-SAF projects currently in development in the EEA
- 3 Mt annual production capacity by 2030
- **O** Final Investment Decision (FID)!





Key Barriers to Scaling e-SAF



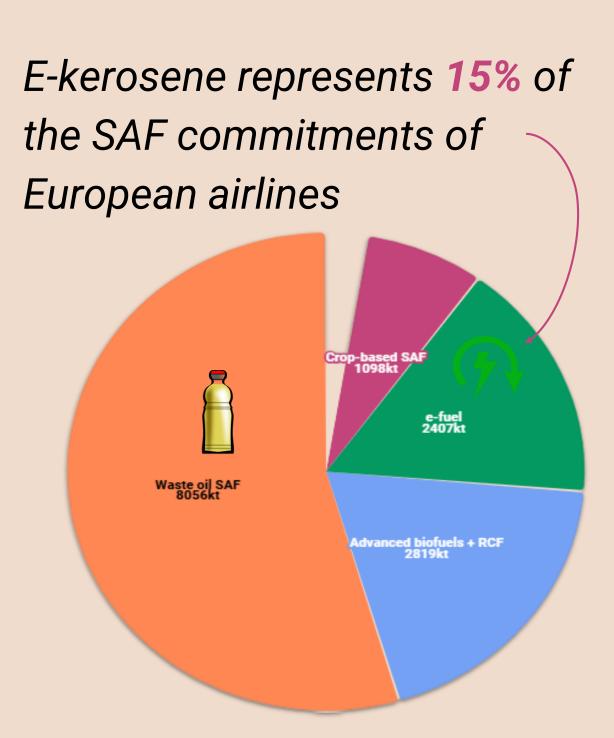
High costs: 5-10x more expensive than fossil jet fuel



Offtake uncertainty: only 3 European airlines have signed offtakes with e-SAF companies



Regulatory uncertainty & funding gaps, despite various EU & national initiatives





Scan the QR code to submit your questions



https://app.sli.do/ event/mm43qHwk zjScvjYPxo9EAQ



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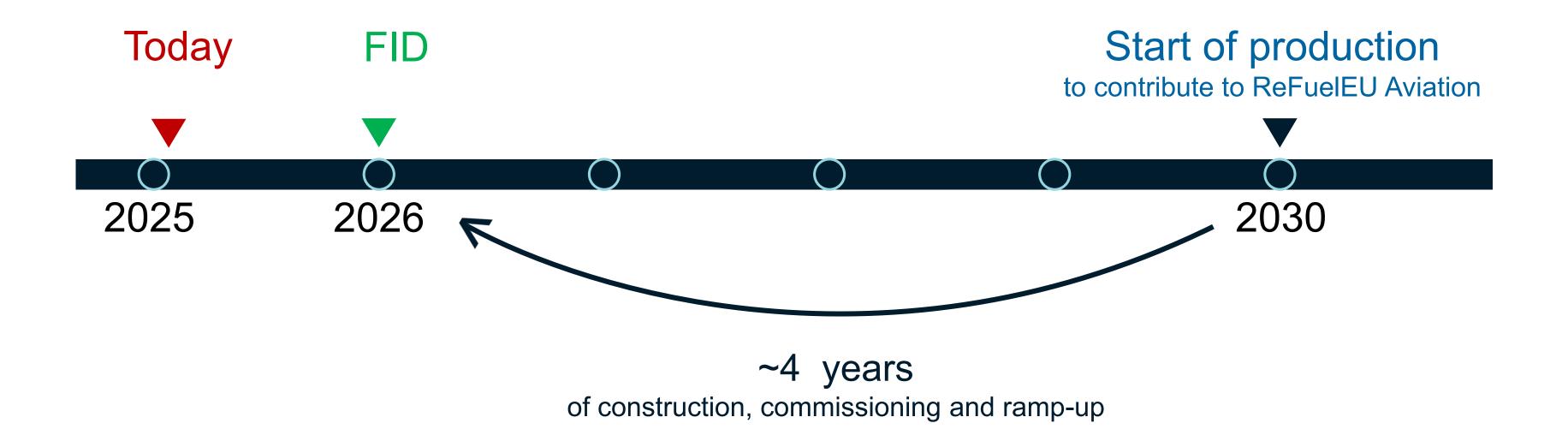




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STATE OF E-SAF IN EUROPE

Final Investment Decision is required by the end of 2025 to realise production by 2030

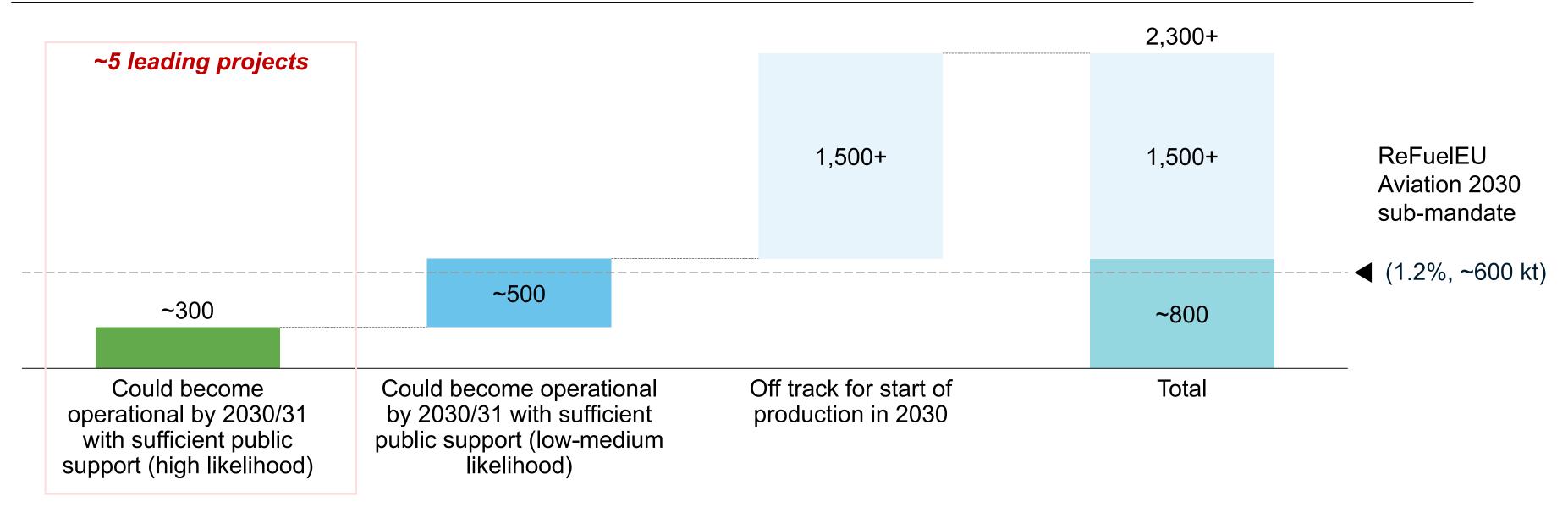


Notes: This shows a realistic scenario; a more optimistic scenario could see construction timelines of 3 years, allowing FIDs by end of 2026. However, durations for individual activities even in the realistic case could often take twice as long. In contrast, certain activities prior to FID can potentially be parallelized. Note that this is a simplified view and does not show all activities involved in project development e.g. securing a grid connection, getting permits etc. which can be done in parallel.

STATE OF E-SAF IN EUROPE

Only 300 kt of commercial-scale e-SAF capacity is on track, half of what is required by 2030

European announced e-SAF capacity, in kt of annual e-SAF output, ranked by estimated likelihood of being operational by 2030



Notes: Planned e-SAF capacity only refers to e-SAF output and does not include byproducts such as e-naphtha or e-diesel/gasoline. If announcement does not state SAF fraction of total product output, a SAF share of 70% is assumed. Some plants are hybrid power and biomass to liquid plants (PBtL), for which the e-SAF share on the total SAF fraction is assumed as 50%, the rest being classified as biofuel. The EU fuel consumption by 2030 is assumed as 50 Mt.

Source: Press search. Non-exhaustive data, upsides possible. Data status: February 2025.

Project SkyPower

Our vision

Making e-SAF a commercial reality this decade bringing the aviation industry a vital step closer to a lower emissions future

Our mission

Paving the way for the first large-scale¹
e-SAF plants in Europe to reach
Final Investment Decision by end of 2025

e-SAF leadership can unlock three key opportunities for Europe

STRENGHTEN
DOMESTIC INDUSTRY

UNLOCK A MARKET OPPORTUNITY

ADVANCE CLIMATE TARGETS

Energy security

can be increased, ~20,000 jobs created and investment renewed in chemical sector

€350+ billion

global market by 2050; Europe can lead in exporting key technologies, services and expertise

400+ million tonnes

of emissions abated per year globally through the scale up of e-SAF

Sources: RMI (2024); IATA (2024); WEF (2022)



Five key policy interventions to make e-SAF a commercial reality this decade

- Make e-SAF a strategic priority in the Clean Industrial Deal and the Sustainable Transport Investment Plan (STIP)
- Recycle ETS revenues from aviation to capitalise a market intermediary that enters into auctioned, 10-15-year contracts with e-SAF producers and 3-5 year contracts with offtakers
- Establish a **bridging mechanism** until a capitalised market intermediary comes online, to **give first movers priority access** to the new funding instrument
- Provide long-term certainty over the EU's mandates, production criteria and penalties
 - Mitigate project-on-project risk via government-backed safeguards and financing structures



70+ industry leaders from the e-SAF ecosystem have unified their voice to call for five urgent policy interventions





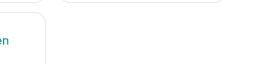






for Europe









ON SUSTAINABLE AVIATION











Make e-SAF a strategic priority in the EU's Clean Industrial Deal and the Sustainable Transport Investment Plan (STIP)

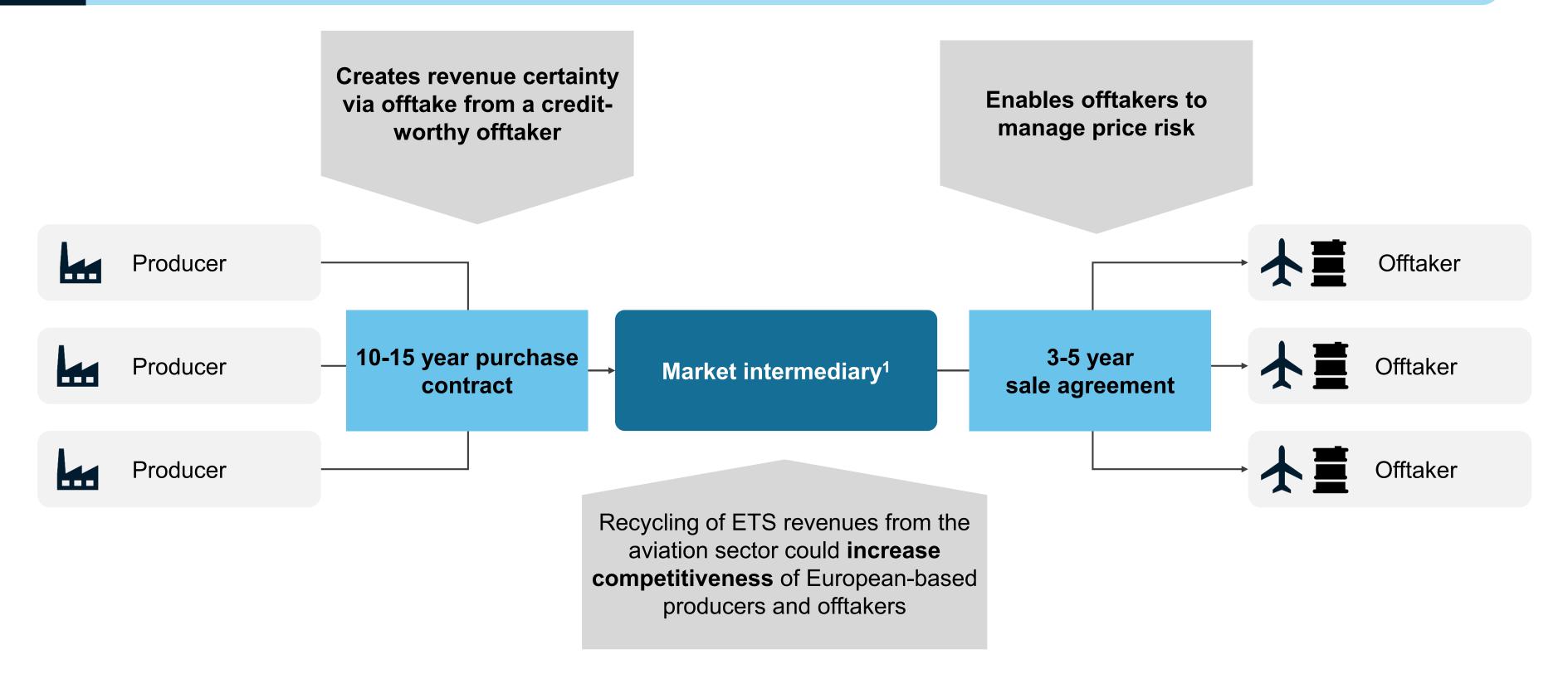
Two short-term opportunities for strategic policymaking on the horizon to unlock the EU's potential for e-SAF leadership:

a) Clean Industrial Deal

an opportunity in early 2025 to recognise e-SAF as a strategic priority for the EU and its future industrial strategy, sending an important signal, mobilising investment and unlocking the support required to scale e-SAF from innovation to commercialisation.

b) Sustainable Transport Investment Plan an opportunity in mid-2025 to develop a multi-year investment plan for scaling up the EU e-SAF industry in line with increasing ReFuelEU Aviation sub-mandates. This plan should identify the most efficient instruments to get first e-SAF projects to FID and enable e-SAF offtake.

Recycle ETS revenues from aviation to capitalise a market intermediary¹



Notes: 1) The implementation of the scheme would be managed in compliance with EU competition law, including the European Commission's Revised Guidelines on Horizontal Cooperation particularly as they apply to sustainability agreements.

Establish a bridging mechanism until a capitalised market intermediary comes online, to give first movers priority access² to funding instrument



A bridging mechanism from 2025 is essential to prevent the market from stalling

one way of providing bridging support is by granting first movers priority access to the capitalised market intermediary.

Notes: 1) Access to the market intermediary should ensure compliance with competition regimes, with particular focus on implementing sustainability agreements under the Horizontal Guidance issued by competition authorities

Provide long-term certainty over the EU's mandates, penalties and production criteria

Investment decisions are currently hindered by perceived uncertainty around...

a) The continued enforcement of the e-SAF sub-mandates after the ReFuelEU Aviation review in 2027

the European Commission could issue communications in early 2025 on potential implications for its Climate Target Plan 2040 from an (expected) e-SAF supply shortage situation in 2030

b) Penalty systems across individual Member States for non-compliance

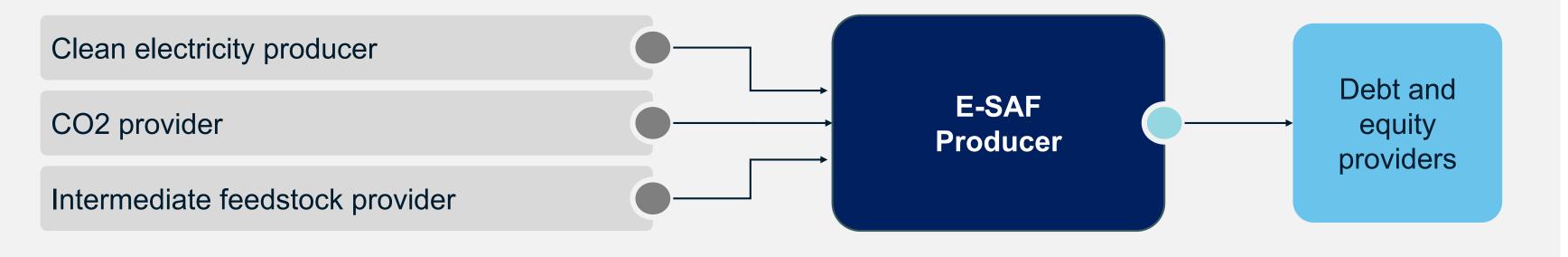
EU Member States should also be urged to publish transparent and harmonised penalty systems in Q1/2025 based on recent guidance by EASA

c) The continued enforcement of current e-SAF production criteria

grandfathering principles for current production criteria should be introduced to de-risk investments into first-of-akind projects

Mitigate project-on-project risk via a government backstop mechanism

High project-on-project risk: e-SAF projects often rely on new renewable electricity, CO2 or other feedstock projects coming online in time. Delays in any of these individual projects have a knock-on impact, carrying significant risk for projects and their investors



Financial backstop: To mitigate these challenges, the European Commission should establish a financial backstop ensuring that debt service payments can be made until the production facility becomes operational.

Strict eligibility criteria should be applied to all projects to minimise the triggering of this support.

In addition, existing instruments (e.g. the EU Innovation Fund) could be made more accessible to e-SAF projects, and more blended finance instruments (like the EU-Catalyst partnership) could help attract private capital.

Thank you.

Reach us at secretariat@project-skypower.org



Panel discussion "Clearing the Skies: Overcoming barriers to the e-SAF market under the Clean Industrial Deal"

15h40 - 17h

Scan to submit your questions!





Jo Dardenne T&E



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Cathryn Estes Arcadia e-Fuels



Ourania Georgoutsakou A4E



Alexander Kerst bp



With the contribution of



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