

PATHWAYS TO SUSTAINABLE AVIATION FUEL 2030 AND BEYOND





WE ABEYNRG



We are a SAF capacity developer



We supply SAF to airlines



We provide SAF solutions for corporate and individual travelers



We do not compromise on , sustainability



AT SKYNRG WE ARE COMMITTED TO MAKING SAF TH



Abbreviations: = Hydroprocessed Esters and Fatty Acids; AtJ = Alcohol-to-Jet; FT = Fischer-Tropsch, PtL = Power-to-Liquids; FEED: Front-end engineering design



REALISTIC SAF PRODUCTION IN US IS EXPECTED THORSE OF A REALING



Key takeaways -

- About 0.9 bgal (2.6 Mt) SAF can be expected by 2026– 2030 with current industry announcements.
- This means the US is currently set to be about 2.1 bgal (6 Mt) short of meeting its 2030 SAF ambition of 3 bgal.
- The majority of announced projects to date in the US will make use of food/feed inputs.
- Global market for SAF--ReFuelEU does not allow feed and food crop-cased feedstocks



AFTER 2030, SAF GROWTH IN US WILL NEED TO COMPERATION SESLU



Key takeaways

- Between 500 750 SAF plants will be required to fulfil the expected US SAF ambition by 2050 (vs. ~15 dedicated plants currently announced)
- Rapid deployment of new technologies (AtJ/gasification + FT, PtL) and feedstock mobilization required to meet 2050 target
- Power-to-Liquids SAF could meet roughly a third of US SAF demand under constant jet fuel demand (75 Mt/27 bgal).
- US could become largest potential supplier of PtL in the world



RENEWABLE NATURAL GAS (RNG) RESOURCES INGELEY USI AREPLAS



*Note: Assumes all RNG feedstock is converted into Sustainable Aviation Fuel. Uses yields from SkyNRG Americas' ProForma modeling of its 30 million gallon per year future facility.

Cross-check from December 2020 study from Argonne National Laboratory and Energy Vision:

 The 157 operational projects currently producing RNG represent total production capacity of over 59,000,000 MMBtu/yr. Potential domestic RNG production is estimated to be between <u>590,000,000 MMBtu/yr and 1,180,000,000 MMBtu/yr.</u>

¹Source Data: ICF compilation from U.S. DOE 2016 Billion Ton Report, EPA LMOP, USDA Livestock Inventory, AgStar Project Database, Bioenergy Knowledge Discovery Framework.



Key Takeaways

- RNG provides scalable, sustainable pathway to SAF including PtL in the future
- Cellusic and PtL will be critical to meeting ambitious SAF targets
- US could be significant supplier of PtL if policy expands to include incentives for use of green H2 and CO₂



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