



SUSTAINABLE
AEROSPACE
TOGETHER

Boeing SAF Overview

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Decarbonizing Aerospace

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FLEET RENEWAL



OPERATIONAL EFFICIENCY



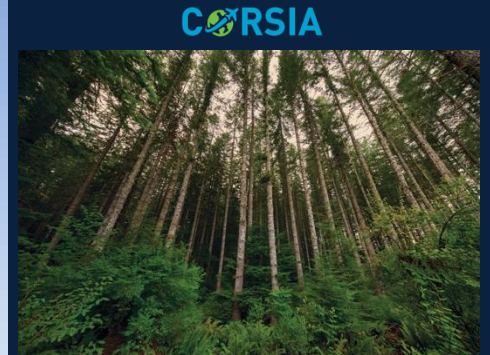
RENEWABLE ENERGY



ADVANCED TECHNOLOGY



MARKET-BASED MEASURES



Pioneering SAF for 15+ years

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TECHNOLOGY & TESTING

2008

First biofuel test flight with Virgin Atlantic

2010

U.S. Navy F/A-18 supersonic flight on 50/50 SAF blend

2011

Led research for ASTM approval of HEFA pathway

2018

First commercial airplane test on 100% SAF

2021

Committed to 100% SAF compatible airplanes by 2030
100% SAF flight with Rolls-Royce
First 100% SAF passenger flight with United Airlines, one engine

2023

Developed jet reference fluid to test 100% SAF compatibility
First 100% SAF transatlantic commercial flight with Virgin Atlantic, dual engine

2024

IAEG 100% SAF Compatibility Working Group

OPERATIONS

2008

2010

2012

2014

2016

2018

2020

2022

2024

2025

2012-current

Use biofuel on every Boeing ecoDemonstrator program

2018

Launched program for biofuel delivery flights from Boeing Delivery Centers

2022

7.5M liters of SAF procured

2023

21.2M liters of SAF contracted

2024

23.8M liters of SAF bought

PARTNERSHIPS & POLICY

2009

Sustainable Aviation Fuel Users Group (SAFUG)

2011

First regional multi-stakeholder roadmaps in the US, Australia

2014

Proposed and partnered with Neste on Green Diesel pathway

2021

Partnered with SkyNRG

2022

Region-specific roadmaps and SAF feedstock analyses with local partners (ongoing)

2023

Studied SAF's impact on contrails with NASA, DLR, FAA, GE, United

2023

Spearheaded Air-CRAFT, a UAE SAF consortium
Launched APEC SAF initiative with U.S. Government
Collaborated with Masdar and Zero Petroleum

2024

Partnered with Wagner Sustainable Aviation Fuels

2025

Partnered with Norsk e-Fuels on a PtL facility

100% SAF Compatibility

Boeing has committed its commercial airplanes will be 100% SAF-compatible by 2030



Our airplane materials and systems were designed for conventional jet fuel

Currently, SAF is approved up to a 50/50 blend

ASTM International will determine the specification of SAF for commercial use



Boeing & ASTM have collaborated on SAF research and testing to approve current and future SAF pathways

100% SAF Compatibility

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Developing Jet Reference Fluids



Testing Materials & Systems



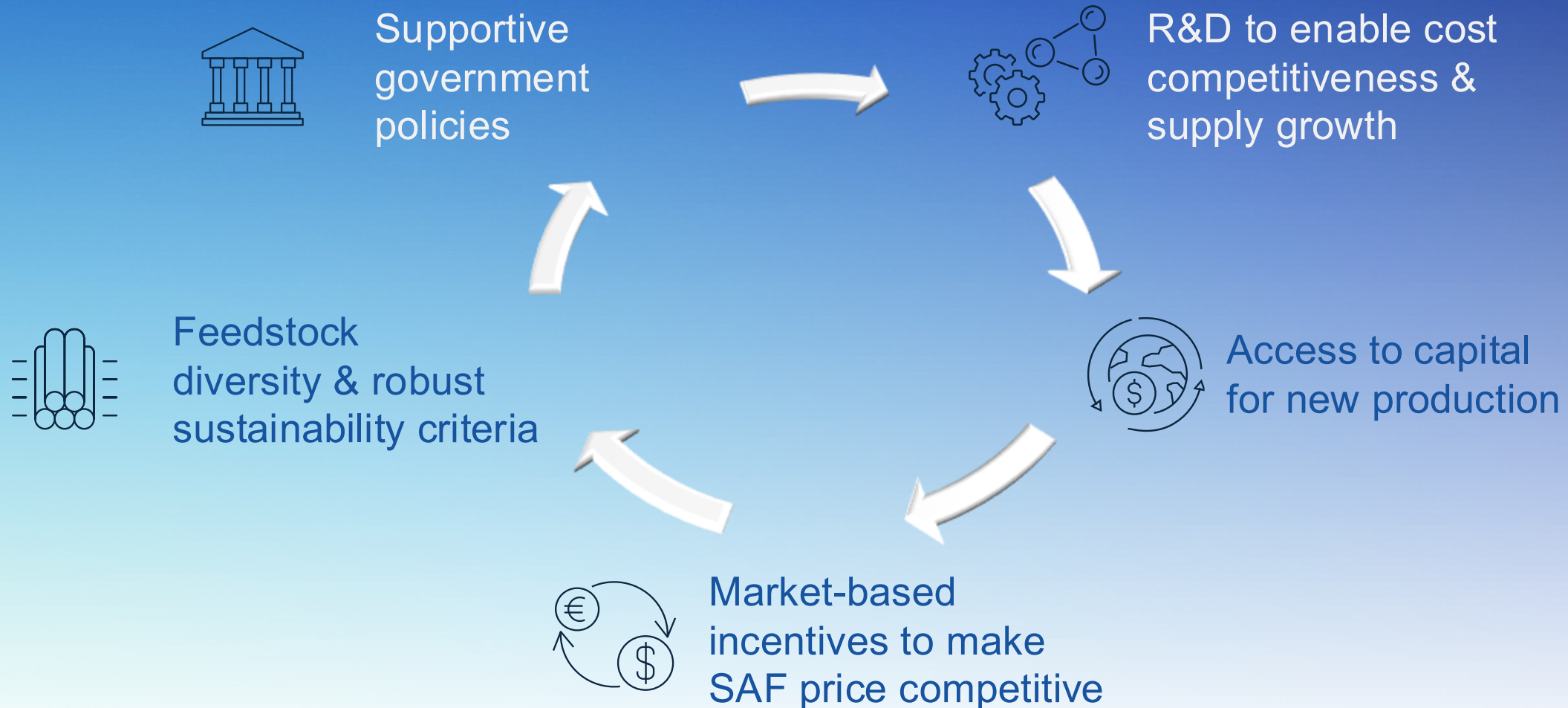
Mobilizing & Engaging



Modifying Airplanes

Keys to accelerating SAF supply growth

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Fueling the Sustainable Bioeconomy w/ RSB

- Research of SAF potential in Ethiopia and South Africa
- Ideal biomass SAF feedstocks were identified within both countries, with capacities to produce significant SAF volumes



Support into ICAO ACT-SAF Initiative

- Assistance with SAF feasibility studies assessing feedstock availability, policy & techno-economic factors in Cote D'Ivoire, Rwanda, Zimbabwe and Burkina Faso



Investing in the Next Generation

- Commitment to align STEM education with sustainability across Africa
- Launched Sustainability and SAF trainings throughout schools and universities in Ethiopia, Morocco, Egypt, Alegria & Senegal



Next Step

- Turning this foundational groundwork into SAF development and deployment

Q&A Session

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