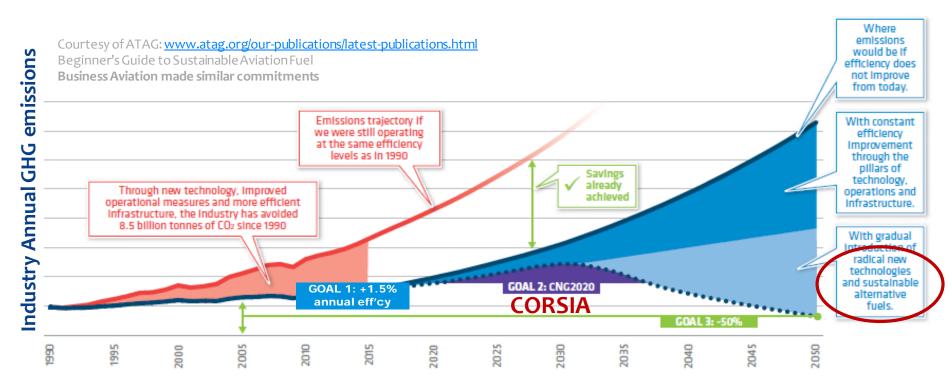
Aviation Industry Commitment to Action on Climate Change: 3 Goal Approach

GOAL 1	GOAL 2	GOAL 3
PRE-2020 AMBITION	IN LINE WITH THE NEXT UNFCCC COMMITMENT PERIOD	ON THE 2°C PATHWAY
1.5% ANNUAL AVERAGE FUEL EFFICIENCY IMPROVEMENT FROM 2009 TO 2020.	STABILISE NET AVIATION CO2 EMISSIONS AT 2020 LEVELS WITH CARBON- NEUTRAL GROWTH.	REDUCE AVIATION'S NET CO2 EMISSIONS TO 50% OF WHAT THEY WERE IN 2005, BY 2050.
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Four Pillars of the Commitment:

Technology, Operations, Infrastructure, and Market-Based Measures

Aviation Industry Commitment to Action on Climate Change: 3 Goal Approach



SAJF a key component of the Technology Pillar; enabler for GHG containment strategy



SAJF offtake agreements Beyond numerous demonstration programs

neat quantities



* WEP also continues supplying fuel for multiple trial and research activities

SAJF offtake agreements Beyond numerous demonstration programs

neat quantities



Other recent announcements



Other recent announcements effort **GE** Aviation 0.5M gpy, 10 yrs **DG Energy Full production slate Multiple Producers, TBA** World Fue offtakes Long-term supply negotiation Gothenburg SAS (from 2023). Fueling all Refinery domestic flights by 2030. UK DfT F4C Funding: ATJ virgin atlantic LanzaTech Development **Demo flight MCO-LGW** capturing carbon fueling growth **Customer funding of SAJF** FINNAIR **TBA** purchase from 2019 Port 2 **Exploration of Airports and Multiple Producers** of Seattle[®] **Greater ambition** SFO **Airline Tenants** & Suppliers Seattle-Tacoma International Airport

Commitments of Greater Ambition



First U.S. Airline to Pledge to Reduce Own Emissions by 50 Percent (vs. 2005) by 2050; 13Sep'18

Obtain 30% of jet fuel from alternative sources by 2030; 06Nov'17

Norway's government introduces 0.5 % blending mandate for advanced aviation biofuels from 2020; 04Oct'18

Moving forward with \$350M expansion to enable 306M gpy total capacity, including infrastructure for jet capacity of 150M gpy; 24Oct'18

Netherlands committed to transition all military aircraft to 20/80 AJF blend by 2030 and 70% by 2050

