ICAO WORK ON SUSTAINABLE AVIATION FUELS (SAF)

Bruno Silva
Aviation Fuels Officer, ICAO

2022 CAAFI® Biennial General Meeting
June 1-3, 2022
ICAO is facilitating SAF development and deployment by:

1) Developing globally-accepted Standards
2) Outreaching information
3) Establishing Policies and goals
4) Supporting Capacity-building in ICAO Member States
The Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA) includes global Standards for SAF

First Global approaches for an industry sector Sustainability and Life cycle assessment

Sustainability certification of fuels

Sustainability criteria

Life cycle Assessment of fuels

For all the details
https://www.icao.int/environmental-protection/CORSIA/Pages/CORSIA-Eligible-Fuels.aspx
(or search – “CORSIA eligible fuels”)

CORSIA Eligibility Framework and Requirements for Sustainability Certification Schemes
CORSIA Approved Sustainability Certification Schemes*
CORSIA Sustainability Criteria for CORSIA Eligible Fuels
CORSIA Default Life Cycle Emissions Values for CORSIA Eligible Fuels**
CORSIA Methodology for Calculating Actual Life Cycle Emissions Values
SAF tracking tools

- Updated daily
- Latest news – maintained since 2009
- Transparent – all data available for consultation
- New tool – SAF production facilities map

https://www.icao.int/environmental-protection/pages/SAF.aspx
(or search it “Sustainable Aviation Fuels”)

Latest news (click for details)

<table>
<thead>
<tr>
<th>Date</th>
<th>Link</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 26, 2022</td>
<td>Brosol Aramco develop e-fuels plant in Spain</td>
</tr>
<tr>
<td>May 25, 2022</td>
<td>Jet Aviation offers SAF at Singapore FBO</td>
</tr>
<tr>
<td>May 25, 2022</td>
<td>Embraer Eyes Expansion, Acceptance of SAF</td>
</tr>
<tr>
<td>May 25, 2022</td>
<td>Alaska Airlines secures seven-year SAF offtake</td>
</tr>
<tr>
<td>May 25, 2022</td>
<td>International consortium to advance decarbonisation of the aviation sector</td>
</tr>
<tr>
<td>May 25, 2022</td>
<td>Cebu Pacific incorporates SAF into its operations</td>
</tr>
</tbody>
</table>
ICAO is working to define quantified goals for SAF

<table>
<thead>
<tr>
<th>2050 ICAO Vision for Sustainable Aviation Fuels</th>
<th>ICAO work on a long term global aspirational goal for international aviation (LTAG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calls for a <strong>significant proportion of SAF use by 2050</strong>, and a <strong>level-playing field with other sectors</strong></td>
<td>combined scenarios of <strong>technology, operations, and fuels</strong>, in terms of timing, readiness, attainability and CO₂ reductions.</td>
</tr>
</tbody>
</table>

| A quantified long-term goal for SAF to be defined in CAAF/3 (by 2025) | Results to be presented to the next ICAO Assembly (September - 2022). |

Ongoing **Stocktaking process to support the definition of these goals**
The LTAG Report provides technical support in exploring the feasibility of a LTAG.

Developed by the ICAO Committee on Aviation Environmental Protection (CAEP), it consolidates efforts of over 280 experts over nearly 2 years of intensive work.

The LTAG report is now available at the LTAG Website.

https://www.icao.int/environmental-protection/Pages/LTAG.aspx

(or search “ICAO LTAG”)
Main takeaways on Fuels

Largest CO2 reductions by 2050 coming from fuels

- After 2044, only SAF is used under IS3

Results to be considered at the next ICAO General Assembly (September 2022)
ICAO is facilitating capacity building with several initiatives

**Feasibility studies** (Burkina Faso, Kenya, Dominican Republic, Trinidad and Tobago)

**ICAO SAF Guide** – General information on SAF production, constraints, and benefits

**ICAO State Action Plans** – support States to include SAF in their Action Plans

https://www.icao.int/environmental-protection/pages/SAF.aspx
New Capacity building programme
ICAO ACT-SAF
ICAO Assistance, Capacity-building and Training for Sustainable Aviation Fuels

Launched on 1 June 2022, in an event Associated to the Stockholm+50 Conference

https://www.icao.int/environmental-protection/Pages/act-saf.aspx
What is ICAO ACT-SAF?

- An ICAO initiative to facilitate the development and deployment of SAF
- Tailored support for States
- Facilitate cooperation under ICAO coordination
- A Platform to facilitate knowledge sharing and progress monitoring

Why ICAO ACT-SAF programme?

- Builds on existing ICAO “ACT” experience, through partnerships and cooperation amongst States
- ICAO LTAG report foresees largest CO2 reductions coming from fuels/cleaner energy sources
- Need for immediate action to fully realize SAF potentials
• All 193 ICAO Member States were invited to join ICAO ACT-SAF

• Next Steps: Scope the needs of States and potential contributions from stakeholders
  – Identify, match, and set up specific SAF implementation projects
  – Establish the ACT-SAF platform
  – Monitor progress

Contact us to join the ACT-SAF Initiative (officeenv@icao.int)