



Update on State Action Plans (SAP) Initiative

Second Phase of the ICAO Assistance Project with the EU Funding :
“Capacity Building for CO₂ Mitigation from International Aviation”

Third Meeting
25 to 27 July 2023

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Overview of State Action Plans



SAP Achievement Updates



ICAO Tools



Next Steps for the State Action Plan Initiative



OVERVIEW OF STATE ACTION PLANS



What is a State Action Plan?

State Action Plans (SAPs)



A State Action Plan is a living document that defines a State's actions to reduce their CO₂ emissions from international civil aviation.



Within a State it is a planning and coordination tool, and it provides a clear communication route to ICAO.



- **Resolution A37-19 (2010): *Resolution on Climate change*** established the State Action Plan initiative
- **Resolution A38-18 (2013), Resolution A39-2 (2016), Resolution A40-18 (2019):** reaffirmed this initiative.
- **Resolution A41-21 (2022): *Consolidated statement of continuing ICAO policies and practices related to environmental protection – Climate change*** → (...) *Recognizing the need to further develop and update State Action Plans, including the quantification of CO₂ emissions reduction benefits with practical tools, for sustainable aviation and infrastructure with the focus on environment-driven innovations;*



Encourages States to submit and update their **voluntary action plans** outlining respective policies, actions and roadmaps, including long-term projections

(A41-21 Para. 10)



Invites States to **prepare or update** action plans to submit them to ICAO **as soon as possible preferably by the end of June 2024** and once every three years thereafter

(A41-21 Para. 11)



Encourages to share information contained in action plans and **build partnerships** with other Member States

(A41-21 Para. 11)



ICAO 41st Assembly Session – Adoption of LTAG

Level of Ambition – A41-21 para. 7 and 8

7. *Further resolves* that, in addition to the medium-term global aspirational goal in paragraph 6 above, **ICAO and its Member States are encouraged to work together to strive to achieve a collective long-term global aspirational goal for international aviation (LTAG) of net-zero carbon emissions by 2050**, in support of the Paris Agreement’s temperature goal, recognizing that each State’s special circumstances and respective capabilities (e.g., the level of development, maturity of aviation markets, sustainable growth of its international aviation, just transition, and national priorities of air transport development) will inform the ability of each State to contribute to the LTAG within its own national timeframe;

8. *While recognizing* that the LTAG is a collective global aspirational goal, and it does not attribute specific obligations or commitments in the form of emissions reduction goals to individual States, *urges* each State to contribute to achieving the goal in a socially, economically and environmentally sustainable manner and in accordance with national circumstances;



LTAG Means of implementation – A41-21 para. 17

17. Recognizes that **means of implementation commensurate to the level of ambition**, including financing, will promote the achievement of the LTAG. It **requires substantial investments for States**, according to **their national circumstances**, and that various possible **modalities and/or funding mechanisms could be used by ICAO to facilitate financing** and investment support for implementation of specific aviation CO₂ emissions reduction measures;



Strong link with the LTAG decision : Net-zero carbon emissions by 2050

- LTAG Progress Monitoring – A41-21 para. 9:

(The Assembly:)

Requests the Council to regularly monitor progress on the implementation of all elements of the basket of measures towards the achievement of the LTAG, including through: the ICAO environment stocktaking process; the review of the ICAO Vision for SAF; further assessment of the CO₂ emissions reduction and cost impacts of a changing climate on international aviation, regions and countries, in particular developing countries, and the impact on the development of the sector, as well as the cost impacts of the efforts to achieve the LTAG; **monitoring of information from State Action Plans for international aviation CO₂ emissions reduction**; and means of implementation. To this purpose, the Council will consider necessary methodologies for the monitoring of progress, and report to a future Session of the ICAO Assembly;



SAPs for LTAG Progress Monitoring



Long-term global aspirational goal for international aviation

Incorporating States LTAG implementation into its SAP

Inclusion of long-term aviation emissions commitments and ambitious low-carbon strategies and roadmaps to the SAPs



- Enables **accountability**
- Provides a **roadmap for achieving the LTAG**
- Facilitates **international cooperation** among ICAO Member States
- Encourages **innovation** in technology, operations and sustainable aviation fuels
- Facilitates **financing** and attracts **investments** for emissions reduction projects



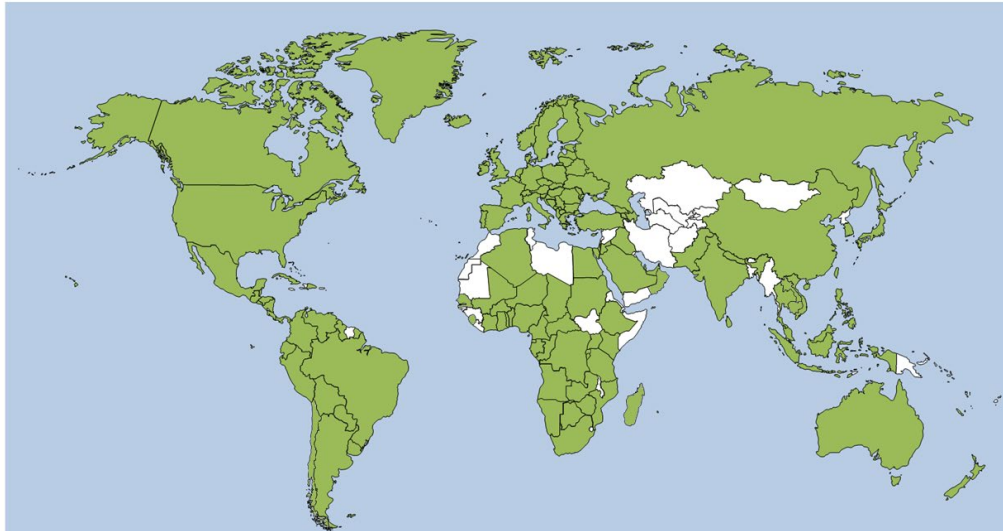


SAP Achievement Updates

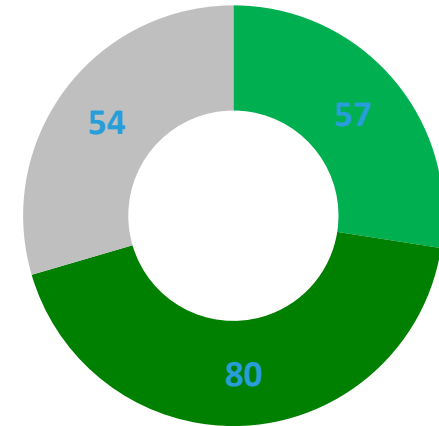


State Action Plans Achievements

139 States representing 98.53 % of global RTK
have voluntarily submitted their State Action Plan



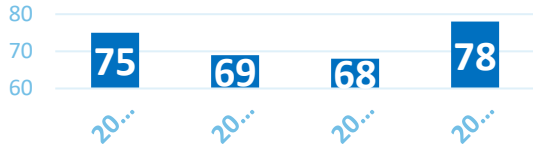
Global SAP Submissions /Updates



- States Submitted Once
- States Updated
- States left to submit



SAP Submissions and Updates by triennium

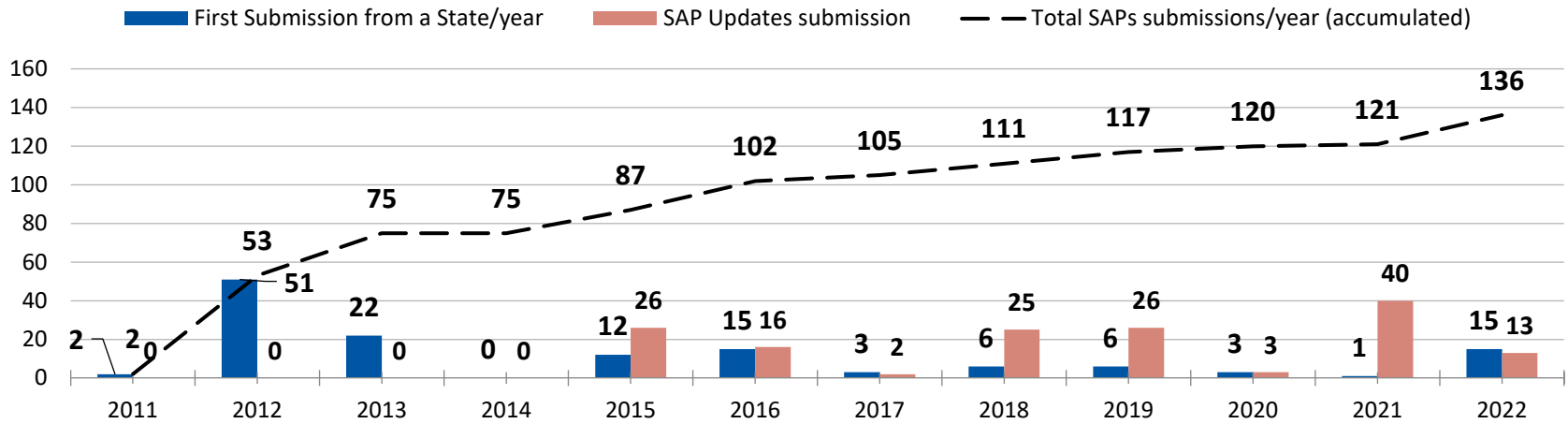


SAP Updates by triennium

Triennium	Value
2011 - 2013 (A-38)	0
2014 - 2016 (A-39)	42
2017 - 2019 (A-40)	53
2020 - 2022 (A-41)	56

✓ 2020-2022 triennium was the triennium with the **highest number of SAP updates from States (56)**

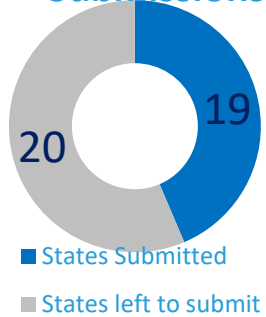
Timeline of State Action Plan Submissions



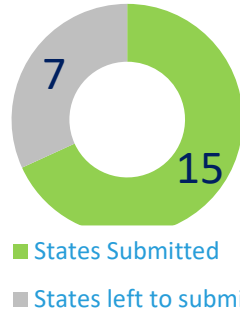


SAP submissions by Regions

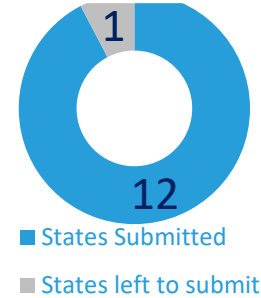
APAC SAP Submissions



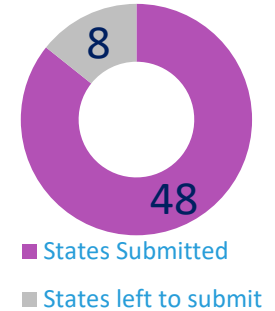
NACC SAP Submissions



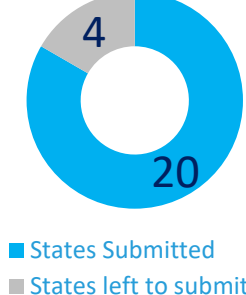
SAM SAP Submissions



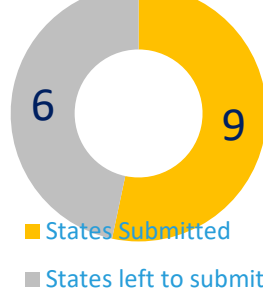
EUR/NAT SAP Submissions



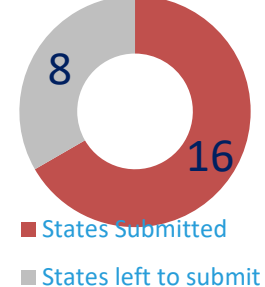
WACAF SAP Submissions



MID SAP Submissions



ESAF SAP Submissions

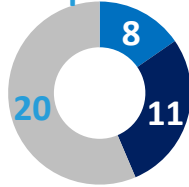




SAP Updates by Regions

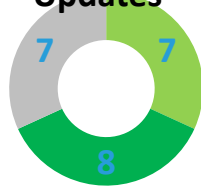


APAC SAP Submissions / Updates



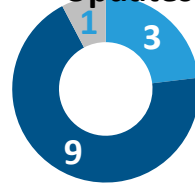
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NACC SAP Submissions / Updates



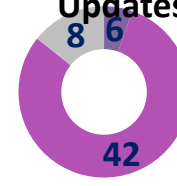
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SAM SAP Submissions / Updates



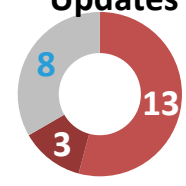
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EUR/NAT SAP Submissions / Updates



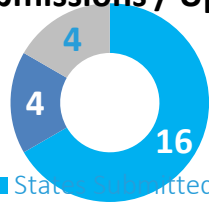
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ESAF SAP Submissions / Updates



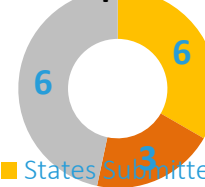
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WACAF SAP Submissions / Updates



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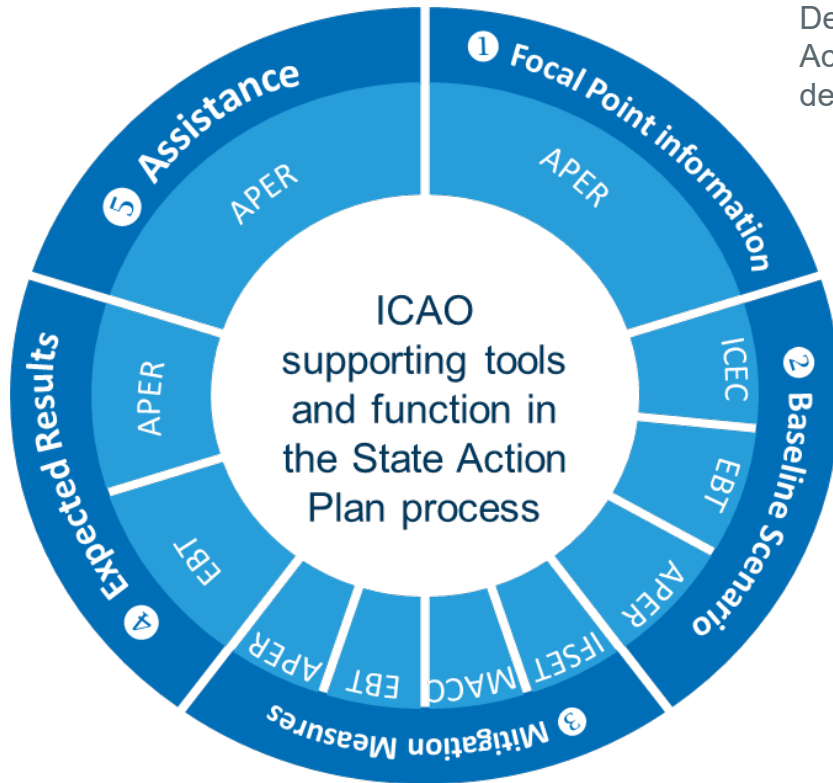
MID SAP Submissions / Updates



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ICAO TOOLS



Action Plan on Emissions Reduction (APER) Website

Developed to assist States that want to prepare and submit their State Action Plan to ICAO, providing access to tools that facilitate the SAP development.

- Environmental Benefit Tool (EBT)

This tool has been designed by ICAO to assist States in the process of defining a baseline scenario, estimating the quantifiable benefits resulting from the selected mitigation measures, and it provides estimated expected results. This tool can support a State with establishing a quantified State Action Plan, while requiring minimal data inputs. All State Action Plan Focal Points are encouraged to utilize this tool while developing or updating a State Action Plan.

Other supporting tools under APER website:

- Marginal Abatement Cost (MAC) Curve Tool
- ICAO Fuel Savings Estimation Tool (IFSET)
- ICAO Carbon Emissions Calculator for States (ICEC)



EBT (v2.8.2) uploaded on APER Website

- **Compatibility issue resolved**
- **Text was added in Baseline A, B and C spreadsheets to help the user format the inputted numbers correctly according to the parameters of Excel.**
- **RTK table was updated with 2020 data for all states**
- **Member State Names updated**

The screenshot shows the EBT tool interface with the following components:

- HISTORICAL DATA & BASELINE:** A box containing two steps: 1. Historical data and 2. Baseline.
- MEASURES:** A central box containing seven categories of measures:
 1. Aircraft-related technology development
 2. Alternative fuels
 3. Improved air traffic management and infrastructure use
 4. More efficient operations
 5. Economic/Market-based measures
 6. Regulatory measures / other
 7. Airport improvements
- EXPECTED RESULTS:** A box containing two results: 1. Fuel savings and 2. CO₂ savings.
- Navigation:** Arrows indicate the flow from Historical Data & Baseline to Measures, and from Measures to Expected Results. A 'HELP' button is located to the right of the Expected Results box.
- Input/Next Section:** A bar with 'Input' and 'Next (Baseline)' buttons.
- HISTORICAL DATA Table:**

Year	International RTK ('000)	International Fuel burn (Tonnes)	Efficiency (Intl. Fuel burn / Intl. RTK)
- Yellow Callout Box:**
 - * Please input the numbers with the appropriate decimal separator (comma ',' or '.') according to your version of Excel.
 - * The inputted numbers should NOT include thousands separator.
 - * You can check the advanced parameters of Excel to check the default decimal separator on your version.
- Red Callout Box (METHOD B):**

METHOD B

To change the methodology to estimate historic fuel consumption, please click the button below.

[Change the methodology](#)

EBT is the Environmental Benefits Tool



NEXT STEPS



State Action Plans – next steps

ICAO

Update of ICAO Doc 9988

Engagement with States to support more robust, quantitative and forward-looking State Action Plans

Continue to explore means to facilitate States' access to financial resources through new possible partnerships

States

To consider implementation of new green technologies and innovations within the ICAO Basket of Measures

- Activities are arising which could further reduce aviation emissions
- Focused on assessing the in-sector emissions reductions measures

Develop/update State Action Plans which include long-term emission reduction initiatives

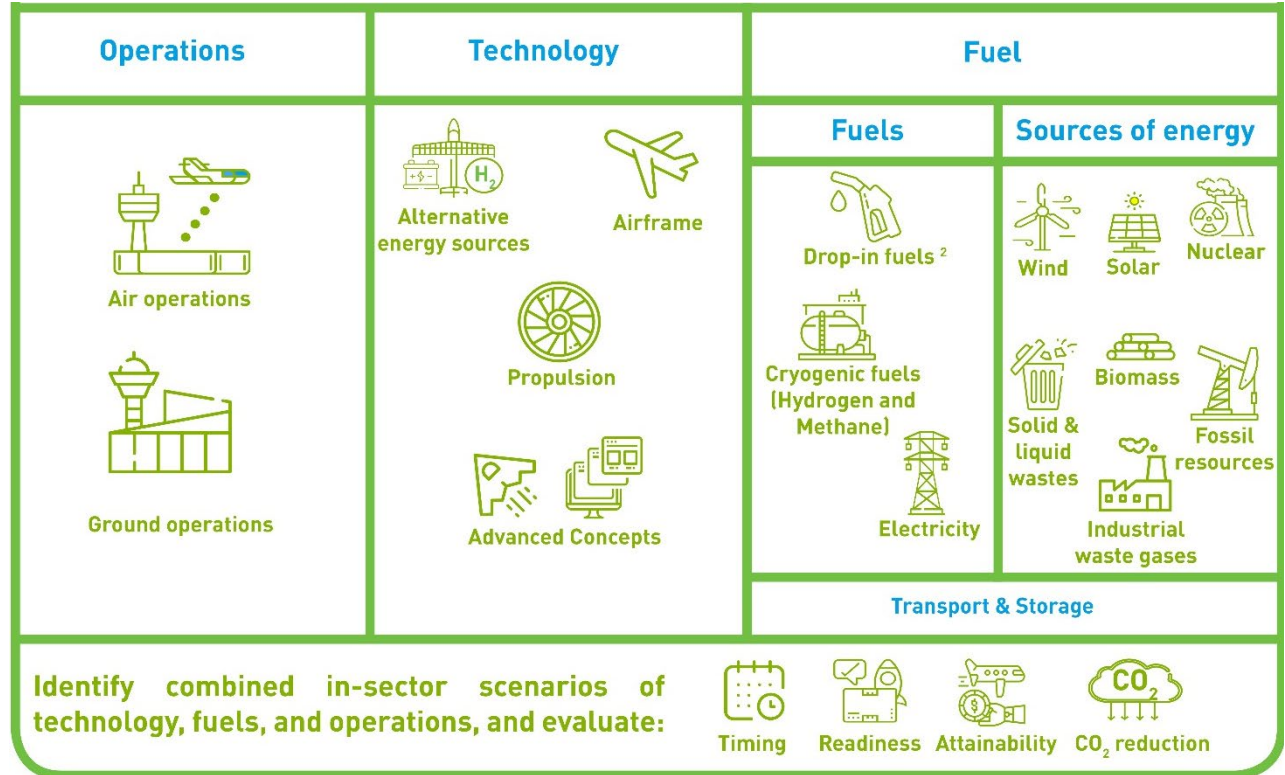


New mitigation measures

Innovations:



In-sector focused:

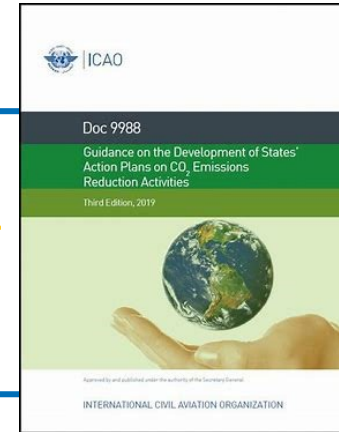




ICAO (Cont.):

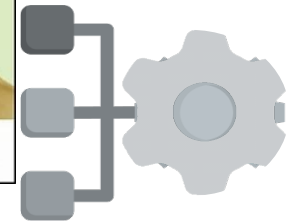
SAP Guidance update (ICAO Doc. 9988) objectives:

- provide guidance for States to incorporate **their long-term emission reduction initiatives**
- facilitate **the LTAG monitoring with SAP data**



Update will include:

- Integration of Latest Assembly decisions and update of sections with latest information
- Additional guidance and support for States to incorporate their initiatives in SAPs and contribute to the achievement of collective ICAO global aspirational goals
- Additional information for States on how to reach financial institutions
- Improvement of data reporting format in SAP
- Baseline (guidance on addressing 2020 Covid year data)
- APER Portal Update
- Revised SAP Feedback Form Template



UPDATING...





- ICAO encourages all Member States to update their State Action Plan and keep it up-to-date – every 3 years – **NEXT UPDATE 2024**
- Assembly encourages robust and quantified State Action Plans allow ICAO to assess future progress toward the achievement of ICAO global aspirational goals
- Opportunity for States to identify **long term measures** that will improve fuel efficiency and reduce emissions
- **implementation of new green technologies and innovations and clean energies**



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THANK YOU