

REGIONAL GREEN AIRPORTS SEMINAR

Hosted by the Ministry of Transport of the Republic of
Uzbekistan

ICAO Environmental Priorities State Action Plan for CO2 emissions reductions





ICAO Environmental Priorities

State Action Plan for CO2 emissions reductions

Blandine Ferrier
ICAO Environment Officer

International Civil Aviation Organization



United Nations Agency

Established in **1944**

Sets global standards and regulations for international civil aviation.

Support its **193 Member States** cooperate in managing and regulating international civil aviation

Support diplomatic and technical cooperation among States.

Enable a safe, secure, efficient, and environmentally responsible global aviation system.

Promote socio-economic development through air transport.

Develop and maintain Standards and Recommended Practices (SARPs) for aviation safety, security, efficiency, and **environmental protection**.

ICAO Strategic Plan (2026-2050)



**Every Flight is Safe
and Secure**



**Aviation is
Environmentally
Sustainable**



**Aviation Delivers
Seamless, Accessible, and
Reliable Mobility for All**



**No Country
Left Behind**



**The International Aviation
Convention and other
Treaties, Laws and
Regulations address all
Challenges**



**The Economic Development
of Air Transport Assures the
Delivery of Economic
Prosperity and Societal Well-
Being for All**



ICAO State Action Plan Initiative

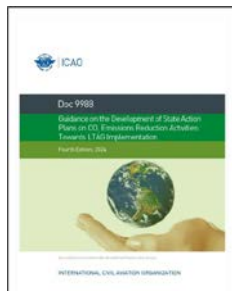
A37-19
Established the
SAP Initiative



Carbon neutral
growth from
2020 onward
2 % annual fuel
efficiency



Guidance Doc 9988
First SAP and regional
seminars to support
Member States



4th edition in 2024

Resolution
A38-18

Resolution
A39-2



Resolution
A40-18

Resolution
A42-21



Resolution
A42-21

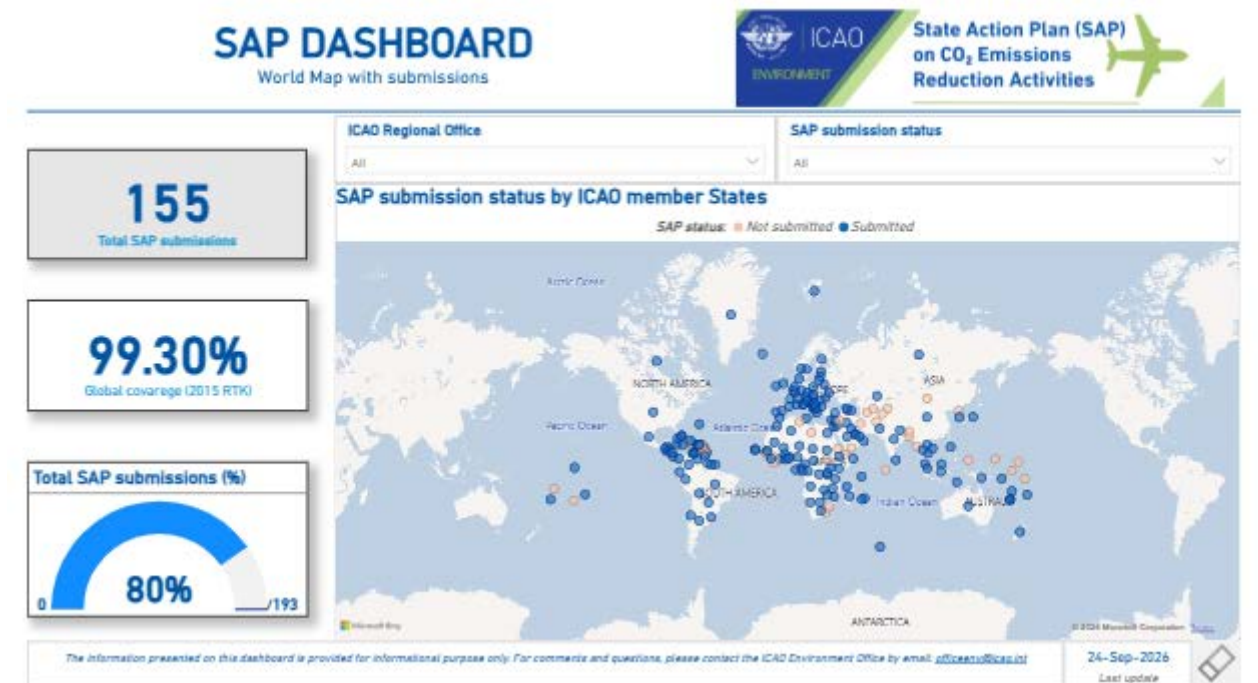
Commitments
reinforced at the
42nd ICAO
Assembly

Resolution A42-21 (2025): (...) 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

ICAO States Action Plans Initiative

State Action Plans are voluntary strategic documents developed by ICAO Member States to outline their **national long-term strategies in reducing CO₂ emissions** from international aviation.

SAPs serve as a framework for setting emissions reduction targets, selecting mitigation measures, and engaging relevant national stakeholders.



The purpose of ICAO's State Action Plan initiative is to also help ICAO to track global progress.

- **2%** annual fuel efficiency improvement
- **Carbon neutral growth** from 2020 onwards
- Collective Long-Term Global Aspirational Goal (LTAG) of **net-zero carbon emissions by 2050**
- **5% reduction in CO₂ emissions** by 2030 through the use of aviation cleaner energies

ICAO States Action Plans Initiative

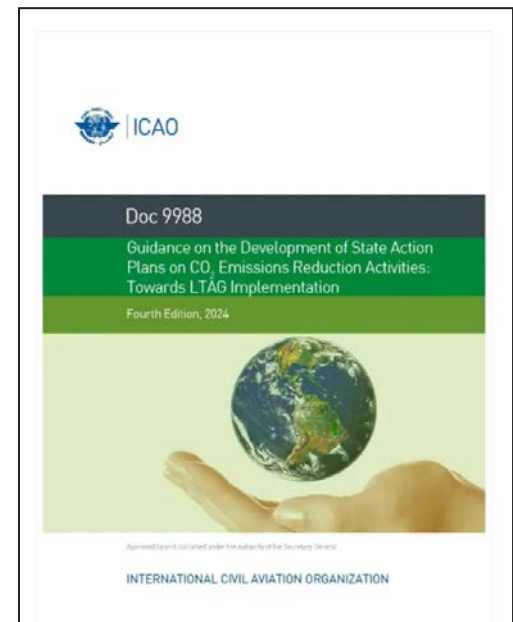
- State **voluntarily report international aviation CO₂ emissions to ICAO** and develop a better understanding of the projections of international aviation CO₂ emissions
- **SAP is a framework for setting emissions reduction targets**, selecting mitigation measures, and engaging relevant national stakeholders
- ICAO **compile information and quantified data** in relation to the achievement of the global aspirational goals



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.



What does a State Action Plan contain?

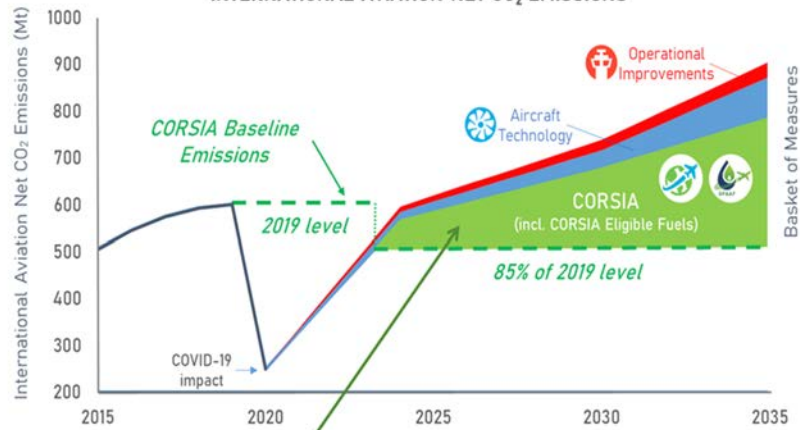
5 Basic Elements (Minimum Requirements)

- 1 **Contact Information** of the State Focal Point.
- 2 **Baseline** (without action) fuel consumption CO2 emissions and traffic (from the latest available year to 2050).
- 3 **Measures** to mitigate CO2 emissions (deriving from the ICAO Basket of Measures).
- 4 **Expected results** (fuel consumption, CO2 emissions, and traffic with the implementation of mitigation measures from the latest available year to 2050).
- 5 **Assistance needs** for example financial, technological or capacity building.

Voluntary submission does not mean “any format”

Basket of CO2 emissions reduction measures

CONTRIBUTION OF CORSIA FOR REDUCING
INTERNATIONAL AVIATION NET CO₂ EMISSIONS



CORSIA addresses the remaining "emissions gap" to achieve CNG2020



Aviation Cleaner Energies:
up to **55%**



Aircraft
Technologies:
up to **21%**

CORSIA

Operational
Improvements:



up to **11%**



Submission is not the end

Once an Action Plan is submitted, States are encouraged to establish a process **to implement and track the selected mitigation measures.**

TRACK PROGRESS

- Monitor implementation of each selected measure
- Use appropriate monitoring and reporting tools
- Track new mitigation projects initiated after submission

COORDINATE

- Maintain regular communication with stakeholders
- Engage government and industry through alliances or taskforces
- Review implementation progress on a regular basis

ENABLE IMPLEMENTATION

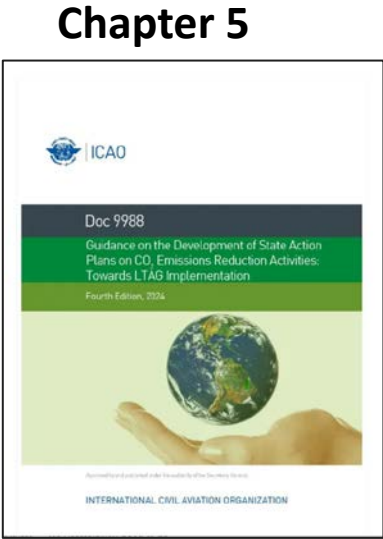
- Establish appropriate policy and regulatory frameworks
- Coordinate relevant authorities
- Support projects needed to implement the measures

The objective: Build a stronger, more quantitative and forward-looking Action Plan over time.

Progress tracking supports the next Action Plan update

The 4rth Edition encourages an implementation progress report that can be communicated to ICAO.

A simple example on reporting implementation progress:



Measure	Status	Implementation rate	Expected CO ₂ saving	Achieved CO ₂ saving	Issue / action
CCO implementation	On track	75%	value from SAP	measured / estimated	complete training
SAF policy	Delayed	milestone-based	value from SAP	not yet realized	resolve legal step
Fleet renewal	In progress	aircraft delivered	value from SAP	operator data	update delivery dates

State Action Plans: Key to Achieving LTAG

State Action Plans are vital for monitoring the progress towards the LTAG of net-zero emissions by 2050



- **Mandate from ICAO Assembly Resolution A41-21 (Para. 9) and reinforced with AR 42-21 Para. 10**
ICAO Resolutions designate SAPs as a key **LTAG monitoring tool**
- **Transparency & Accountability**
SAPs provide a structured way for States to **report emissions data, share mitigation strategies, and demonstrate commitment** to achieve aspirational goals.
- **Data-Driven Assessments**
Supports ICAO's data-driven assessments and policy guidance.



States Action Plans in the EUR/NAT Area

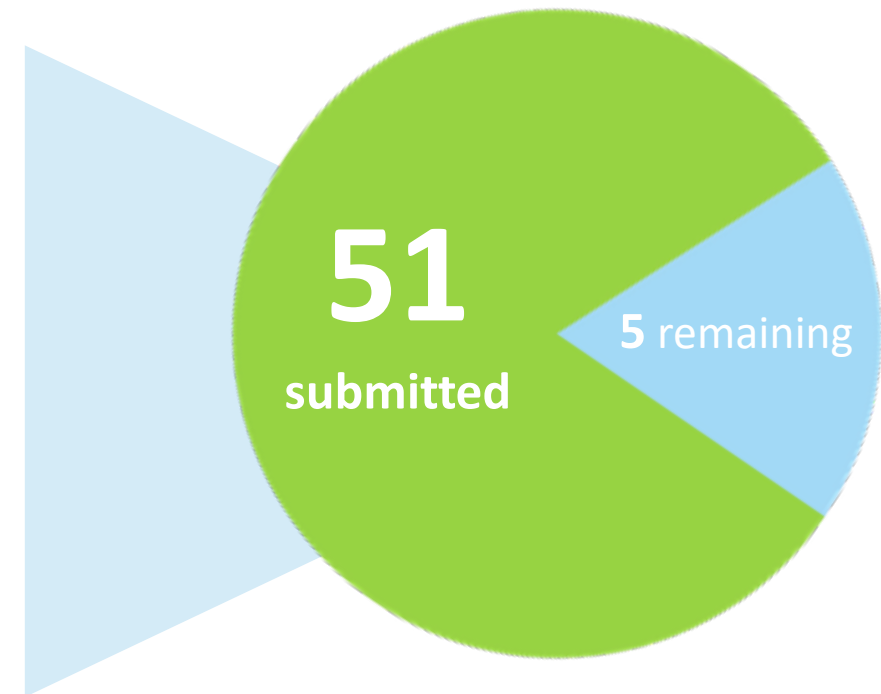
EUR/NAT States' SAP Submissions

With the adoption of ICAO's LTAG and the ICAO Global Framework for SAF, LCAF and other Aviation Cleaner Energies **State Action Plans have become even more critical.**

The quantified information submitted in State Action Plans enables ICAO to compile global progress toward its aspirational climate goals

ICAO encourages all Member States to develop a State Action Plan and keep it up-to-date – **every 3 years**

State Action Plans are encouraged to submit information on their use of SAF, LCAF and other aviation cleaner energies as part of their State Action Plan submissions



ICAO ACT-LTAG programme for CO2 Mitigation



Basket of CO₂ Mitigation Measures

ICAO Global Implementation Roadmaps

ICAO ACT-LTAG Programme and State Action Plans (SAPs)

Aircraft technologies

- ICAO Standardization Roadmap
- CAEP Technology Goals and Standards

Operational Improvements

- ICAO Global Air Navigation Plan (GANP)
- CAEP Operational Goals and Guidance

SAF, LCAF and other Aviation Cleaner Energies

ICAO ACT-SAF programme to support Roadmap for CAAF/3 Global Framework implementation

Additional Measures (e.g. CORSIA)

ICAO ACT-CORSIA programme to support CORSIA SARPs implementation (up to 2035 for CNG goal)

Strengthen support for the development, update and implementation of

State Action Plans on aviation CO₂ reductions to contribute to LTAG

in collaboration with regional initiatives and platforms

(Resolution A42-21, para 22)



KNOWLEDGE SHARING



TRAINING SERIES



SEMINARS AND WORKSHOPS



GUIDANCE AND TOOLS



SUPPORT STUDIES, POLICIES, PROJECTS



PARTNERSHIPS



JOINT SAP



FACILITATE ACCESS TO FINANCE



SUPPORT LTAG MONITORING

- ✓ **ACT-LTAG:** to support progress across all elements of the ICAO basket of measures.
- ✓ Effectiveness **measured through quantified State Action Plans.**
- ✓ **Facilitates access to financing** for the implementation of measures identified in State Action Plans.

Thank You



North American
Central American
and Caribbean
(NACC) Office
Mexico City

South American
(SAM) Office
Lima

ICAO
Headquarters
Montréal

Western and
Central African
(WACAF) Office
Dakar

European and
North Atlantic
(EUR/NAT) Office
Paris

Middle East
(MID) Office
Cairo

Eastern and
Southern African
(ESAF) Office
Nairobi

Asia and Pacific
(APAC) Sub-office
Beijing

Asia and Pacific
(APAC) Office
Bangkok