



ICAO

ENVIRONMENT

NO COUNTRY LEFT BEHIND



APAC Office Webinar for the 10th Anniversary of the ICAO State Action Plan (SAP) Initiative on CO2 Emissions Reduction

Japan's experience and future direction

Hiroki Tokunaga

Policy Coordinator for Global Environment

Japan Civil Aviation Bureau

22 April 2021





1. Overview of Japan's Current State Action Plan (SAP)

- **In accordance with the ICAO Assembly Resolution, Japan submitted the first edition in 2012 and has been updating it every three years since then.**
 - 1st edition (2012), 2nd edition (2015), 3rd edition (2018)
- **Overview of the 2018 SAP**
 - Promoting the introduction of new type fuel-efficient aircraft
 - Sustaining energy saving performance through proper maintenance
 - Operational improvements
 - Emissions reduction during parking on the ground
 - Upgrading air traffic systems and the relevant supportive research and development
 - Promoting alternative aviation fuels
 - CO2 reduction from international aviation by global market mechanism



2. Future Direction of SAP Renewal in Japan ①

- In response to movements toward carbon neutrality by 2050 in other countries and the Prime Minister's declaration of carbon neutrality by 2050 in October 2020, it is necessary to accelerate and promote studies toward “Carbon neutrality by 2050 and the realization of a decarbonized society” in the aviation sector as well.
- In March 2021, JCAB launched the “Committee on CO2 Reduction in Aircraft Operation” and the “Committee on CO2 Reduction at Airports,” which are composed of experts and the private sector personnel, to discuss the direction of specific efforts in the aviation sector in Japan.



2. Future Direction of SAP Renewal in Japan ②

■ Committee on CO2 Reduction in Aircraft Operation

1. Introduction of new technologies into aircraft and equipment (Demonstrating Japan's strength in elemental technologies that contribute to fuel efficiency improvement, measures to promote their introduction through standardization, etc.)
2. Improvement of operation methods by upgrading air traffic control (Measures to promote the introduction of new operation methods that contribute to reducing fuel consumption including shorter routes, use of new technologies, etc.)
3. Promote the introduction of sustainable aviation fuel (SAF)
(To enable practical application while maintaining continuity, etc.)

■ Committee on CO2 Reduction at Airports

1. Accelerate efforts to reduce CO2 emissions from airport facilities and vehicles
2. Measures to turn airports into renewable energy bases



3. Future Schedule

- JCAB is studying the specific direction of Japan's aviation sector toward “Carbon neutrality by 2050 and the realization of a decarbonized society”.
- SAP is expected to be formulated based on the results of these studies



1. Challenges

- Build consensus with the parties involved in developing the plan
 - Airlines, SAF manufacturers, oil wholesalers, aircraft manufacturers, parts manufacturers, air traffic control equipment manufacturers, industry associations, research institutes, etc.
- Need to keep pace with other countries' efforts
 - Understand other countries' policy trends and trends of airlines and manufacturers

2. The way we cope with

- Building consensus with the parties involved
 - Communicate well with diverse parties involved on a daily basis
 - One way is to establish a study group or committee that brings all concerned parties together for discussion
- Trends in other countries
 - Participation in ICAO-sponsored seminars and bilateral information sharing
 - Objective analysis based on scientific knowledge and various information from various countries and organizations

4. Lessons learned



ICAO

ENVIRONMENT

NO COUNTRY LEFT BEHIND



ICAO

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



THANK YOU