

# Decarbonization in aviation sector

---

Kohei Yoshikawa

Director, Decarbonization

Corporate Planning

**All Nippon Airways Co., Ltd.**

Tokyo, 25 October, 2023

# About ANA Group

Founded in 1952 (with two helicopters)



276 airplanes as of June 2023



Headquarters: Tokyo, Japan

Main Hub: Tokyo/Haneda, Tokyo/Narita

Number of Employees: 40,507 (Consolidated basis)

ANA

UNITING the  
WORLD in WONDER

# ICAO framework on CO2 emissions - CORSIA and LTAG -



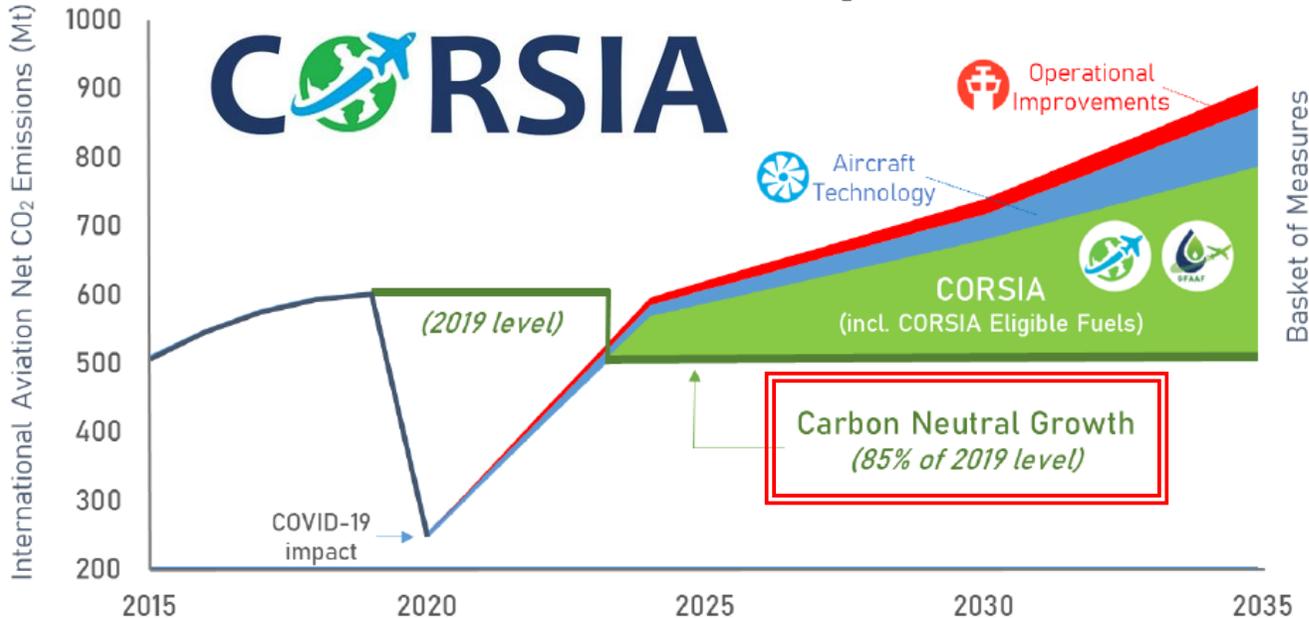
# ICAO

The 41<sup>st</sup> ICAO Assembly Resolution  
(October, 2022)

BY 2035: 85% baseline compared to 2019

BY 2050: Net-Zero

CONTRIBUTION OF CORSIA FOR REDUCING INTERNATIONAL AVIATION NET CO<sub>2</sub> EMISSIONS



# IATA Net Zero Resolution and Roadmaps



- ✓ October, 2021: Resolution to achieve Net Zero by 2050 at the 77th IATA Annual General Meeting
- ✓ June, 2023 : Strategic Roadmaps to showcase critical steps to reach Net Zero by 2050



**SAF**

- 5,000 -7,000 refineries
- 400M ton production

**Hydrogen**

- 100Mton per year
- 4-14M ton for Hydrogen Aircrafts

**Direct Air Capture**

- Extracted 700M tonCO2/year
- For DACCS/Power to liquid

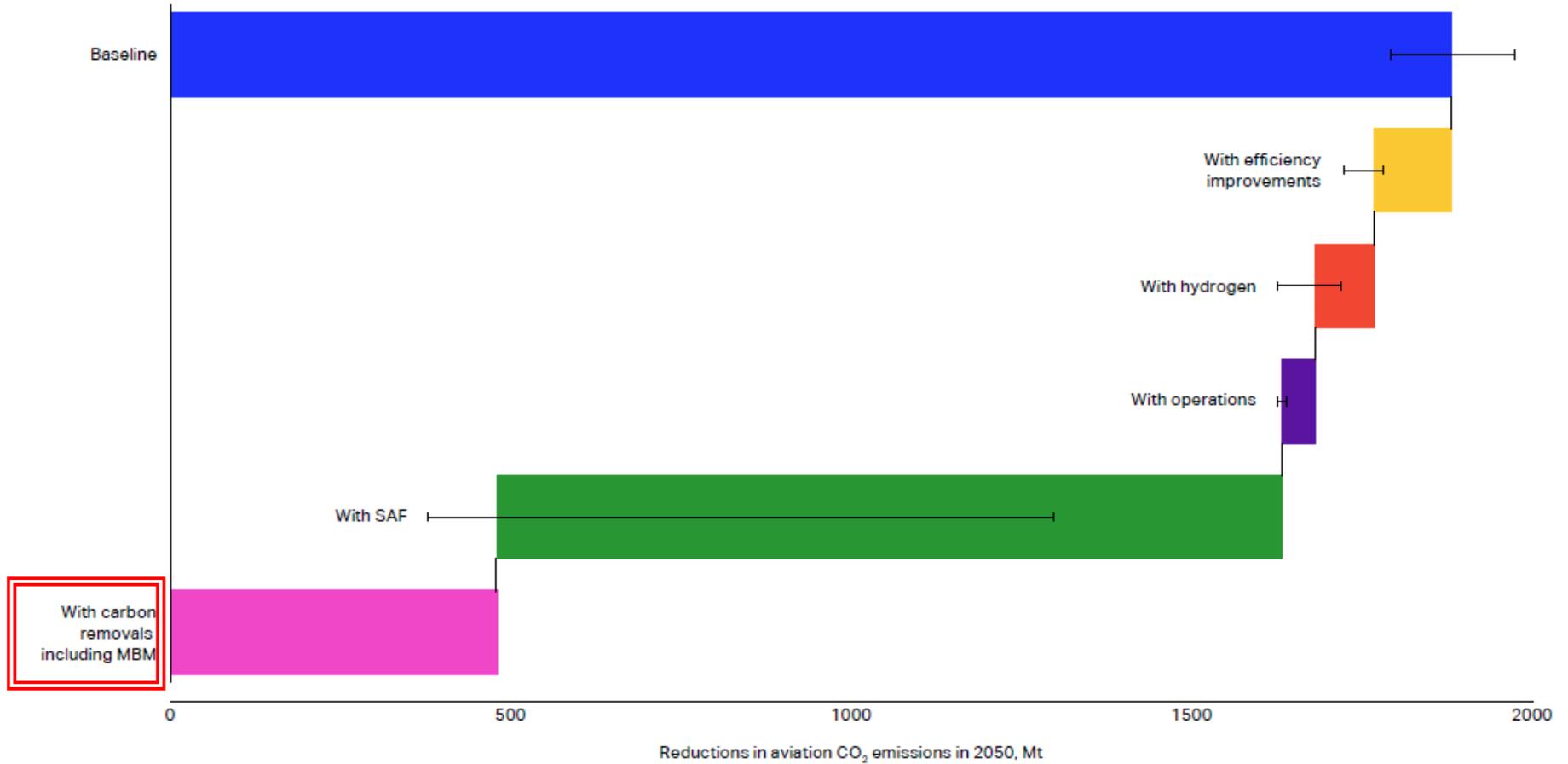
**Electric Power**

- 10,000 TWh
- The equivalent of half of all electricity in 2021

# IATA Net Zero Resolution and Roadmaps



**Chart 2:** Reduction in aviation CO<sub>2</sub> emissions in 2050 achieved through the different levers of action. The solid bar indicates the central case and the black lines indicate maximum and minimum reductions based on the scenarios modeled.



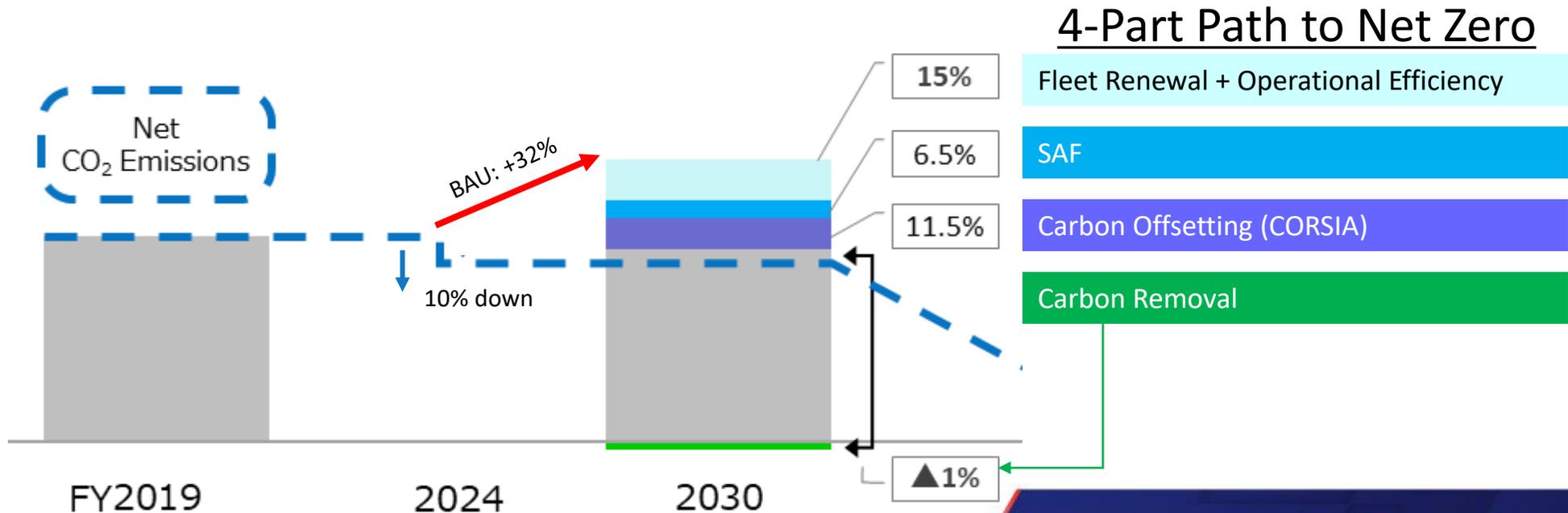
Source: IATA Sustainability and Economics, ICAO LTAG SAF availability scenarios



# Transition Strategy for Net-Zero by 2050

## ANA's Environmental Sustainability Commitment

<b>SHORT-TERM GOAL:</b>	<b>10% LESS CARBON EMISSIONS</b> compared to FY2019 <b>+ 10% SAF USE BY 2030</b>
<b>LONG-TERM GOAL:</b>	<b>NET-ZERO CARBON EMISSIONS BY 2050</b>



# ANA's Decarbonization Journey – Leadership role as a first mover -

## Key Highlights

### 1st

Airline in the world to introduce the Boeing 787



### 1st

Airline to use SAF on regular flight departing from APAC airports



### 1st

Airline in the world to sign a DAC derived CDR purchase agreement with 1PointFive



## ANA's Mission Statement

Built on a foundation of **security and trust**, "the wings within ourselves" help to fulfill the hopes and dreams of an **interconnected world**.

## ANA's Management Vision



ANA inspires our employees, customers, and society to explore endless possibilities with diverse connections that begin in the sky.