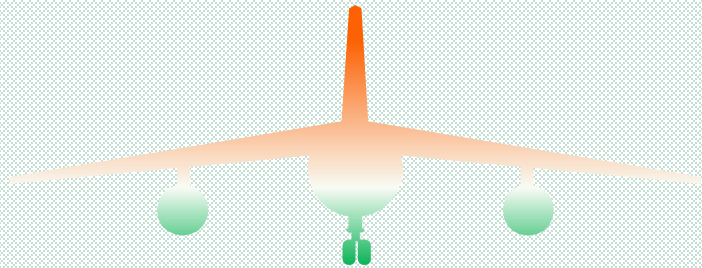


CORSIA IMPLEMENTATION BY INDIA

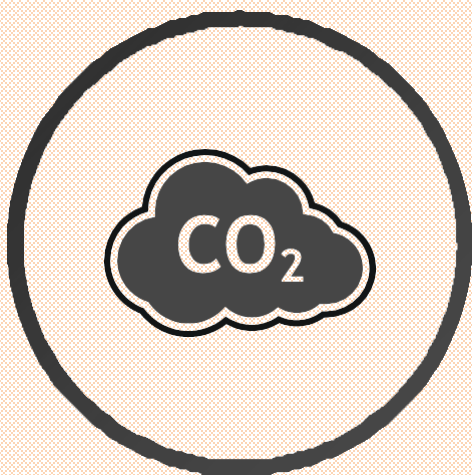


DGCA INDIA

OBJECTIVES

- ❑ Highlight National Initiatives for emission reduction under CORSIA and Co-operation with ICAO
- ❑ Showcase Sustainable Aviation Fuel (SAF) developments
- ❑ Outline India's carbon market and future roadmap

Basket of Measures adopted by ICAO to achieve Long-term Aspirational Goal to Achieve Net Zero 2050 emissions



Emission Reduction
through
technological and
operational
advancements

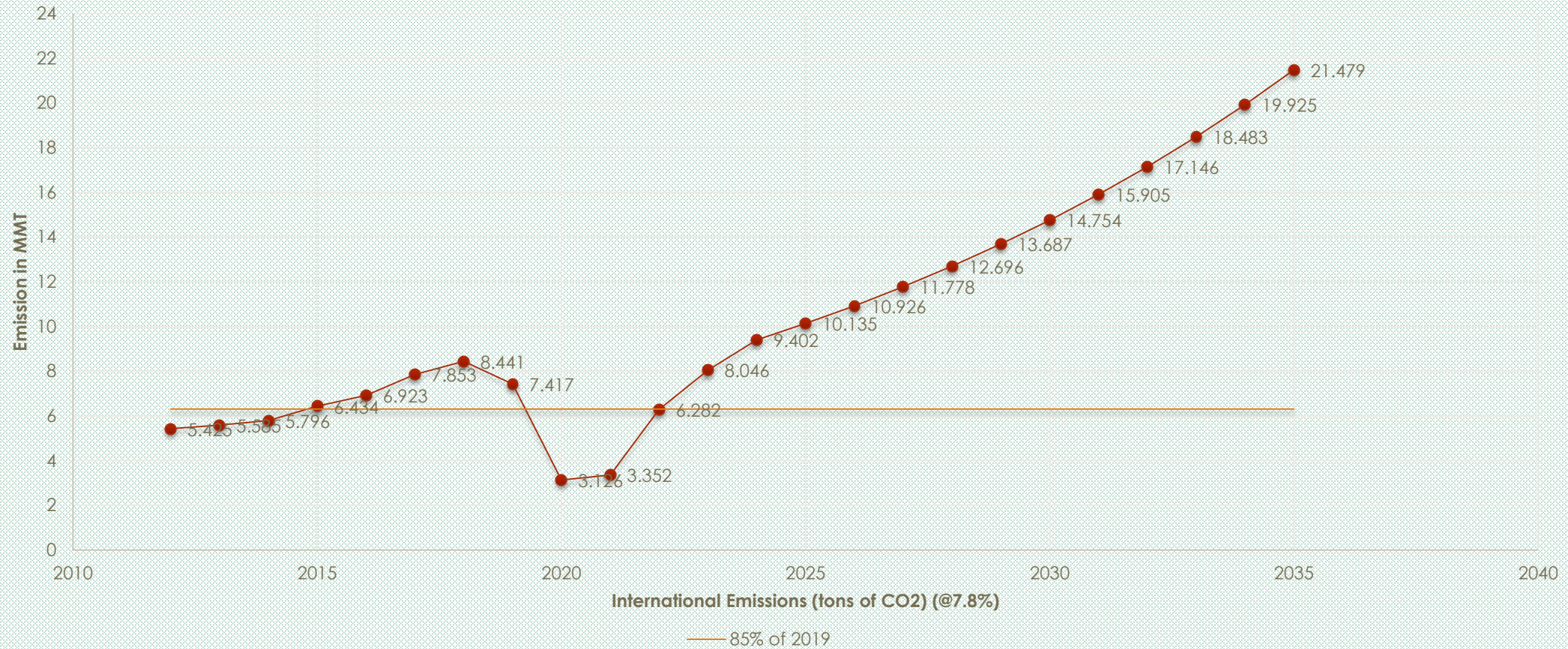


Sustainable Aviation
Fuels
Low Carbon Aviation
Fuels



Offsetting
through CORSIA

CORSIA EMISSIONS PROJECTIONS- India



CORSIA- INDIAN SCENARIO

- ❑ **Monitoring & Reporting must under CORSIA** – All Indian scheduled operators with international operations are monitoring and reporting the fuel and emissions data to DGCA on yearly basis from 1st January, 2019 onwards,
 - ❖ DGCA submits CORSIA data annually on ICAO portal within stipulated time.
 - ❖ India will join Mandatory Phase from 2027 onwards.
- ❑ **Offsetting under CORSIA** – Will start onwards from year 2027, airlines can either use SAF or offset their emissions by purchasing carbon credits from ICAO approved scheme.

CORSIA- INDIAN OPERATORS

➤ Indigo



➤ Spicejet



➤ Vistara (merged with Air India)



➤ Air India (Parent)



➤ Air India Express (Subsidiary)

➤ Akasa Air



INDIA'S PATH-BREAKING EFFORTS

- ❑ Launched National Regulations on CORSIA in the year 2018.
- ❑ National Accreditation Board for Certification Bodies (NABCB)- Accreditation for CORSIA verification was launched
- ❑ India has its own Two verification bodies accredited with NABCB and empaneled by DGCA.
- ❑ Took initiatives with fuel producers and suppliers for carrying out Biojet Fuel demonstration flights.
- ❑ Worked with airlines to support them in building internal procedures and guiding them throughout the way.
- ❑ Became one of the first few countries to submit the emissions data to ICAO within the timeline.

SUSTAINABLE AVIATION FUEL : WAY TO NET ZERO

- ❑ After consultation with various Ministries and oil companies regarding indicative targets of blending percentage of SAF in ATF, initially for international flights, Govt of India has announced indicative blending percentages of SAF as follows:
 - ❖ 1% by 2027;
 - ❖ 2% by 2028; and
 - ❖ 5 % by 2030

DEVELOPMENTS MADE: SUSTAINABLE AVIATION FUELS

- ❑ Number of flights have been operated with SAF blended fuel.
- ❑ Related to SAF certification, NABCB (National Accreditation Board) has signed the MoU with ISCC (ICAO approved sustainability certification scheme) to provide accreditation to certification bodies in India for certification of SAF as per ISCC CORSIA scheme requirements.
- ❑ India has joined ICAO's Assistance, Capacity-building and Training for Sustainable Aviation Fuels (ACT-SAF) programme, wherein a feasibility study will be delivered by ICAO leading us to a better understanding of the challenges and opportunities, and sound recommendations for the ramp-up SAF industry of the country.
- ❑ A working group has been formed under Ministry of Civil Aviation to promote the development of SAF and carbon markets in India.
- ❑ Various sensitization workshops for all the scheduled airline operators to discuss on the ICAO CAAF/3 and MoPNG SAF blending targets.

BIOFUEL DEMONSTRATION FLIGHTS



DEVELOPMENTS MADE: CORSIA ELIGIBLE UNITS

- ❑ The Indian Carbon Market (ICM), established in June 2023 through the Carbon Credit Trading Scheme (CCTS), aims to reduce greenhouse gas emissions by trading carbon credits. The market framework includes a compliance mechanism for energy and industrial sectors and an offset mechanism for voluntary GHG reduction initiatives. The Indian government has also taken steps to regulate the carbon market through the Energy Conservation Amendment Act, 2022.
- ❑ India has vast potential for large scale carbon projects and is among the largest supplier of certified emissions reductions (CER) under the CDM after China and Brazil.
- ❑ India already has two well established market-based trading scheme: Perform, achieve and trade (PAT) and Renewable Energy Certificate (REC) for clean energy.

THE WAY FORWARD

- ❑ Build robust SAF production and certification ecosystem
- ❑ Strengthen carbon market mechanisms
- ❑ Training and capacity building
- ❑ Collaborate with global and local stakeholders for net zero

