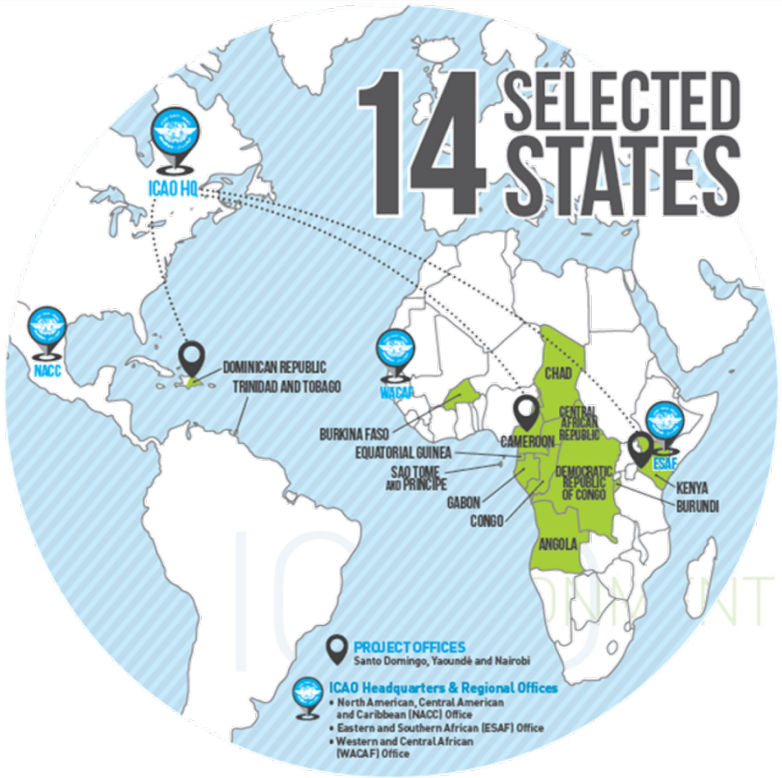
ICAO CAPACITY BUILDING SEMINAR ON LOW EMISSIONS AVIATION MEASURES

Marginal Abatement Cost (MAC) Curve Tool
Introduction and Live Demo

Neil Dickson, Chief, Environmental Standards Section, ICAO

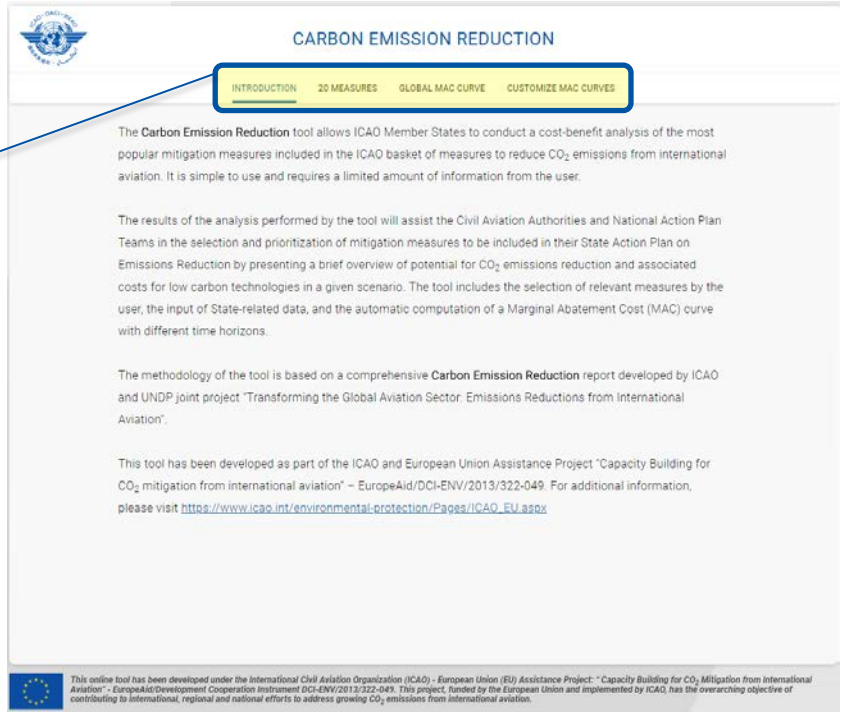
CAPACITY BUILDING FOR CO_2 MITIGATION FROM INTERNATIONAL AVIATION



Introduction

4 Tabs to navigate through the tool:

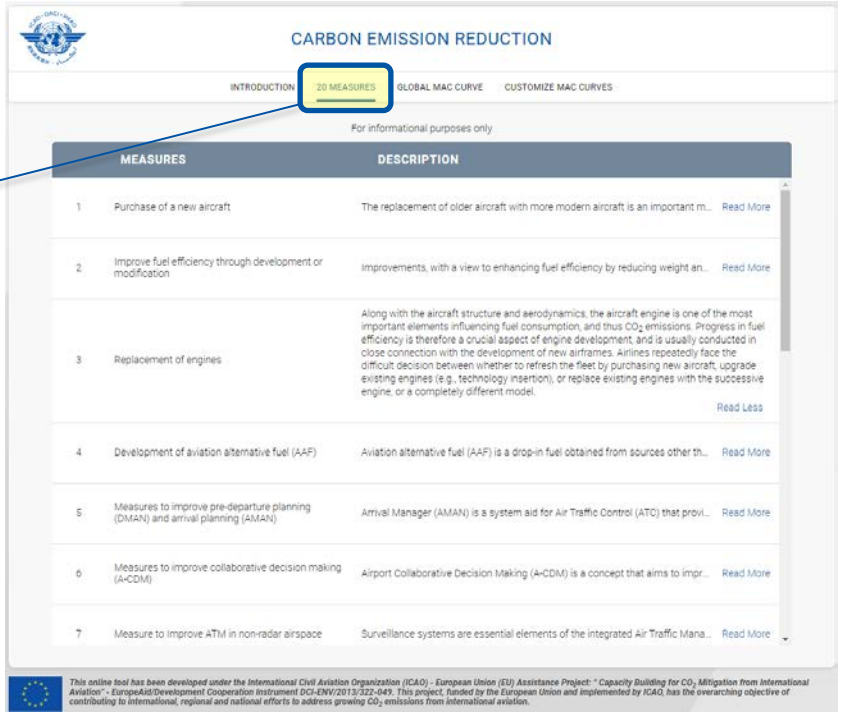
- Introduction
- 20 Measures
- Global MAC curve
- Customize MAC curves



20 Measures

Tab: 20 Measures

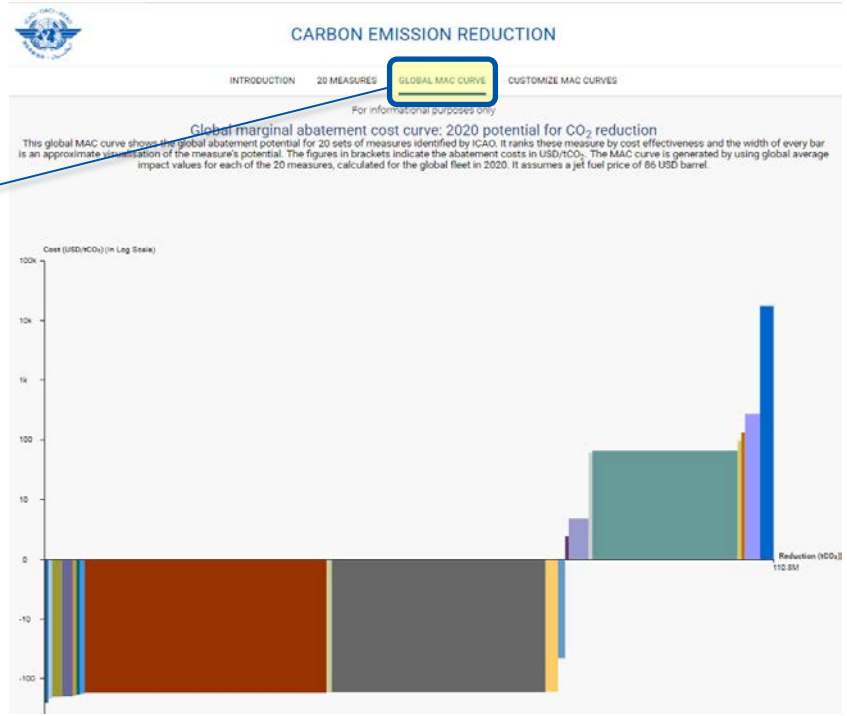
This tab provides a description for the 20 measures available in this tool



Global MAC curve

Tab: Global MAC curve

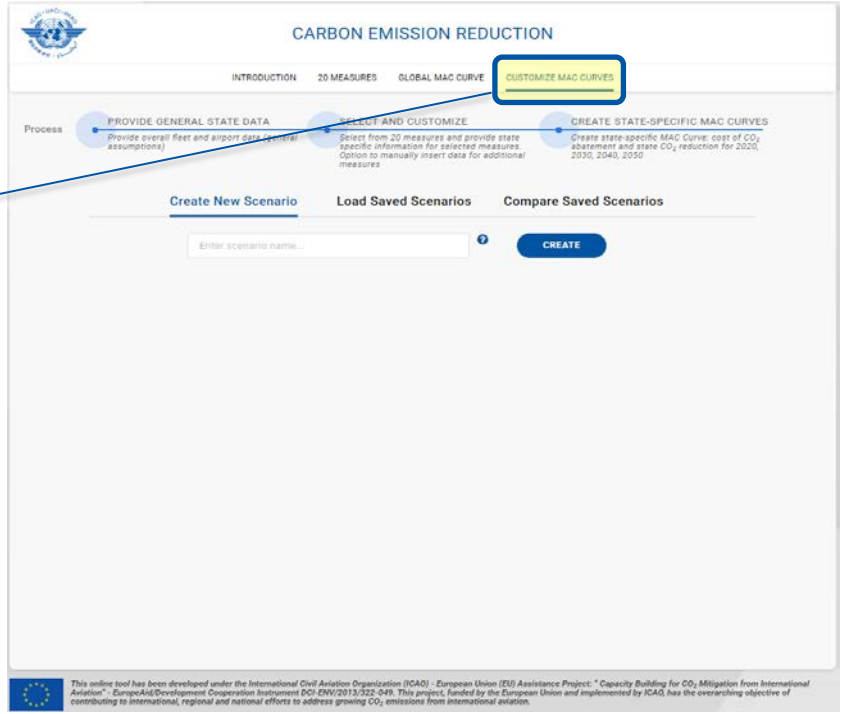
This tab highlights the Global MAC curve (i.e. the MAC curve based on the 192 ICAO Members States)



Customize MAC curves

Tab: Customize MAC curves

This tab allows the users to customize the MAC curve at the local level (i.e. based on



Customize MAC curves

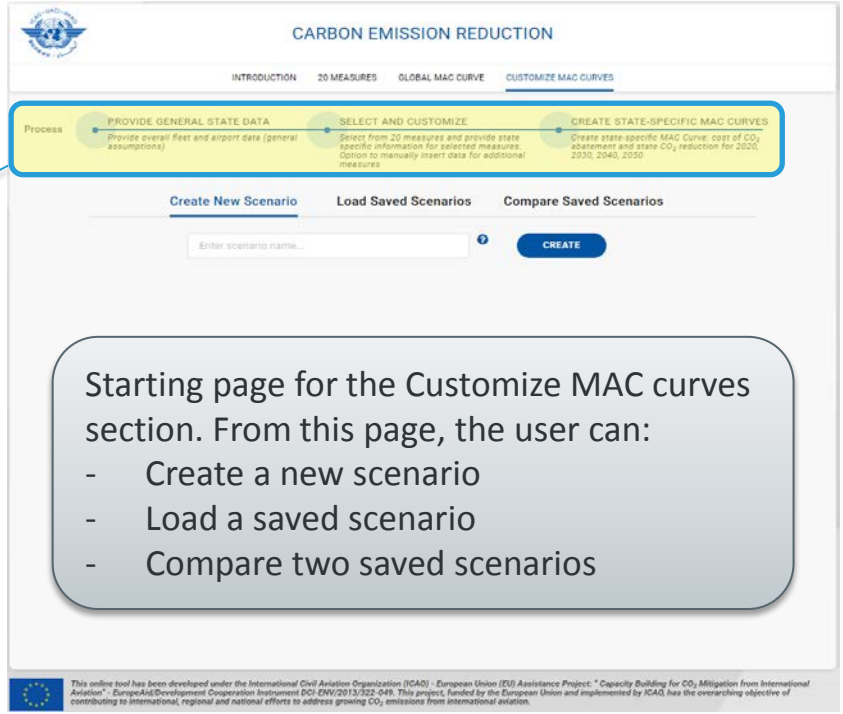
Tab: Customize MAC curves

The process is the following:

Step 1: Provide General State Data

Step 2: Select and customize measures

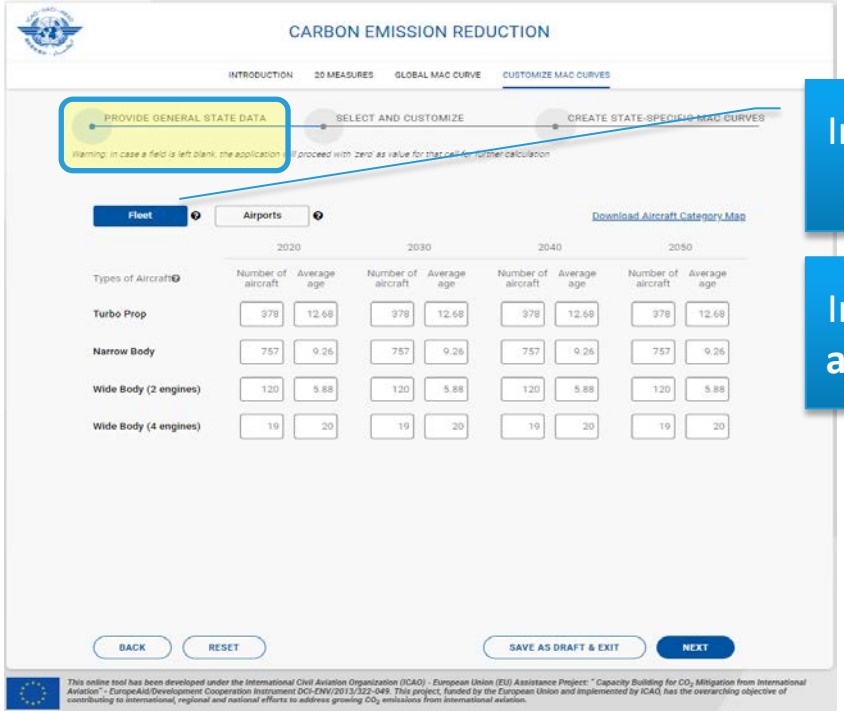
Step 3: Generate MAC curve



Starting page for the Customize MAC curves section. From this page, the user can:

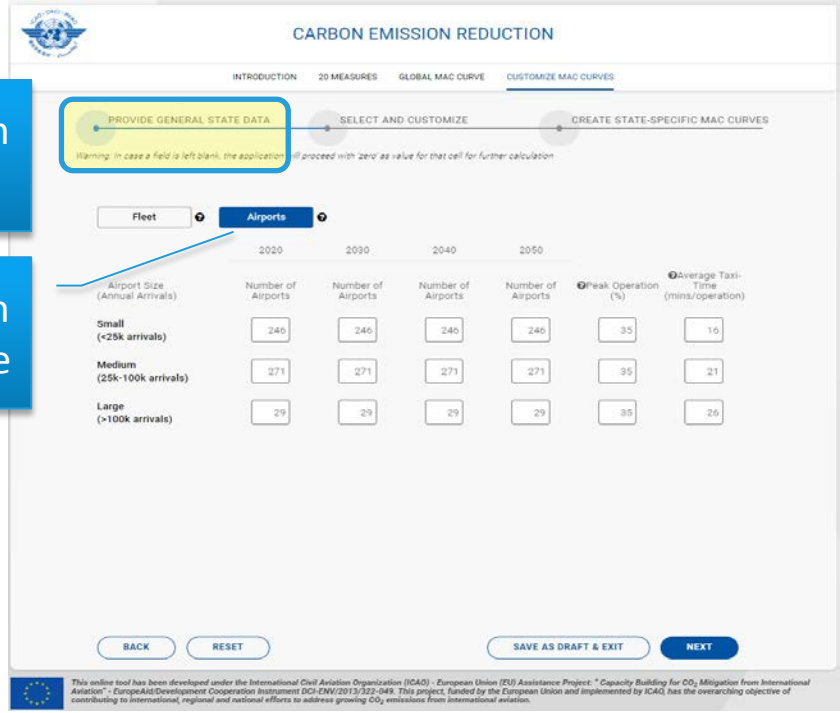
- Create a new scenario
- Load a saved scenario
- Compare two saved scenarios

Customize MAC curves



Information on **fleet** profile

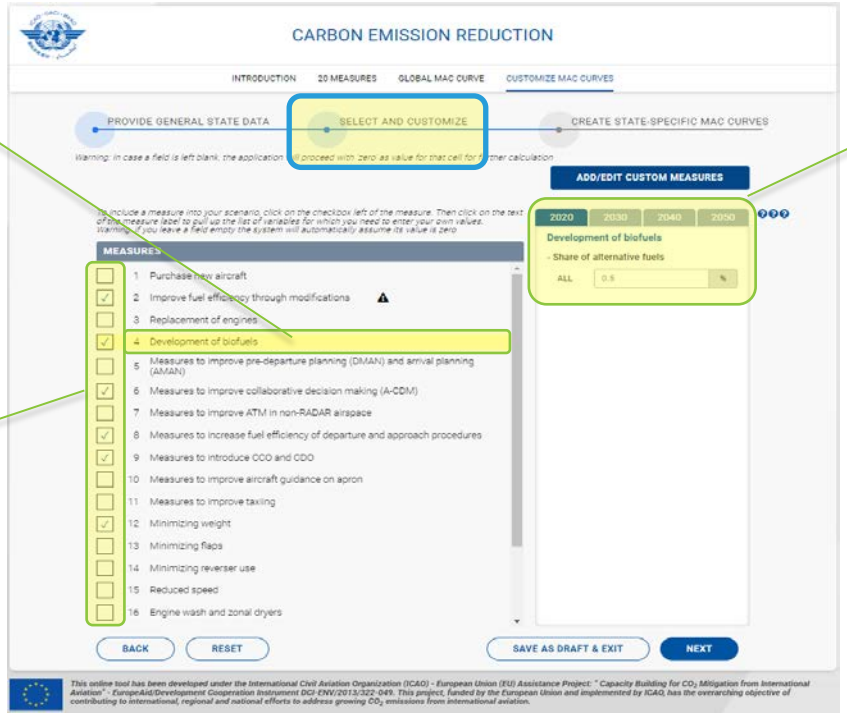
Information on **airports** profile



Customize MAC curves

Click on the title of the measure in order to customize the measure

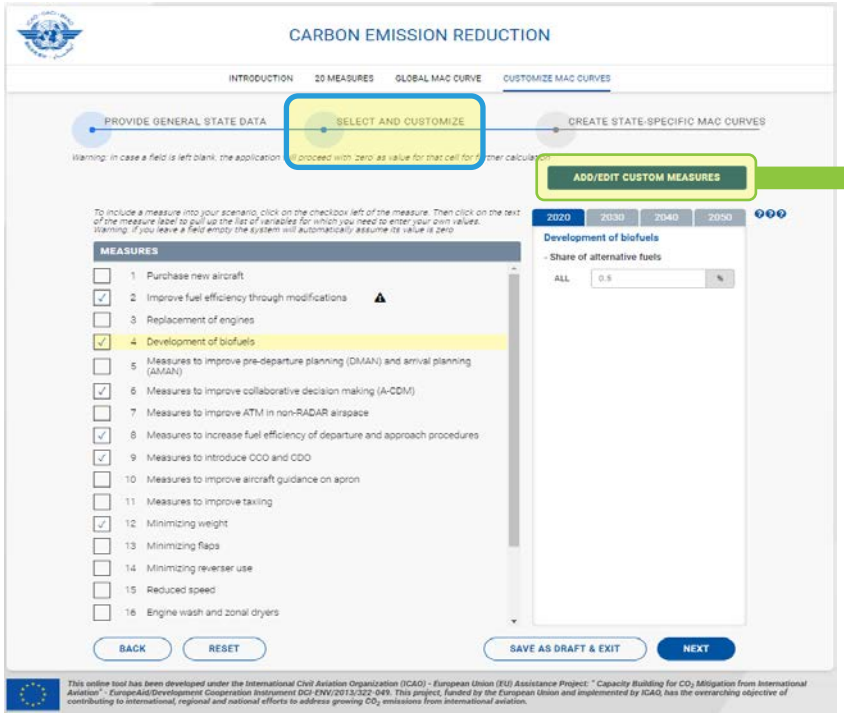
Select or unselect measures

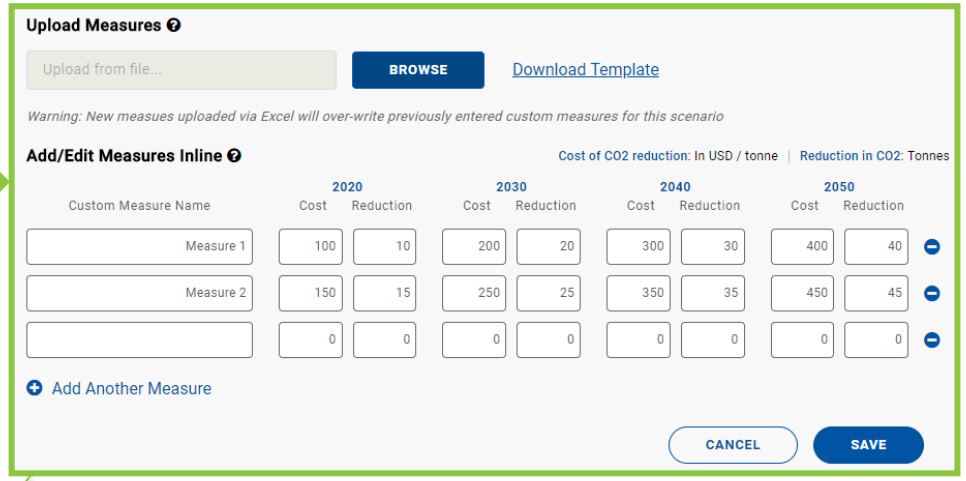


On the right side of the tool, users can customize measures for each decade from 2020 to 2050.

Default values are based on global figures

Customize MAC curves





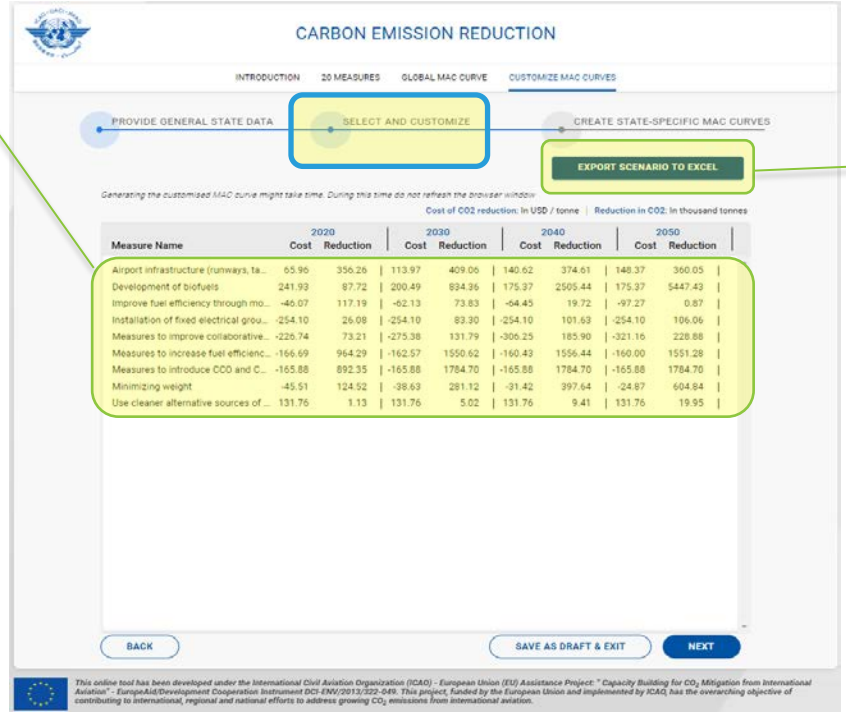
Users can add Custom Measures:

- Upload measures
- Add/Edit measures directly from the interface

Customize MAC curves

The tool returns results for each measures selected for the years 2020, 2030, 2040 and 2050 in the following format:

- **Cost** (USD/tonne of CO_2 abated)
- **Reduction** (in thousand of tonnes of CO_2)



Users can export scenario (i.e. results) into an Excel spreadsheet

Customize MAC curves

The tool shows a MAC curve for each decade (2020, 2030, 2040 and 2050).

This screenshot shows the 2020 MAC curve.

Users can export MAC curves in the two following formats:

- PDF
- PNG

All MAC curves exported include a legend

For more information on this project, please visit ICAO's website:

https://www.icao.int/environmental-protection/Pages/ICAO_UNDP.aspx

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THANK YOU