



# **ECAC CAPACITY BUILDING PROGRAMME FOR ENVIRONMENT**

## **SUSTAINABLE AVIATION FUELS (SAF) TRAINING CATALOGUE**



# INTRODUCTION

The ECAC Capacity Building Programmes for Environment and its plan of activities was endorsed by Directors General in May 2021 (DGCA/156, 5 May 2021), including three overarching objectives:

- Support ECAC Member States' own efforts to fulfil ICAO environmental requirements
- Strengthen the competencies and knowledge of people dealing with environment matters in ECAC Member States
- Promote and support information sharing and policy awareness

At DGCA/159 (7 December 2022) Directors General agreed to prioritise training for the promotion of Sustainable Aviation Fuels (SAF), to support individual ECAC States where specific needs are identified, aimed at enabling all 44 ECAC Member States to have a national SAF roadmap in place to be included in their State Action Plans to be submitted to ICAO to address emissions reductions for International Aviation.

The activities in the Programmes are designed to develop skills and competencies of national experts, and to share best practices for key national stakeholders.

Each year, ECAC will advise its Member States on the capacity-building plan and related activities offered. This Catalogue provides a single reference document for Member States to use throughout the year by presenting the range of SAF training activities offered. Each of the activities in the Catalogue is developed using as reference the [ECAC Guidance for Sustainable Aviation Fuels \(SAF\)](#) and can be tailored to meet your national needs and circumstances. ECAC can also develop additional activities should they be required to meet your specific needs.

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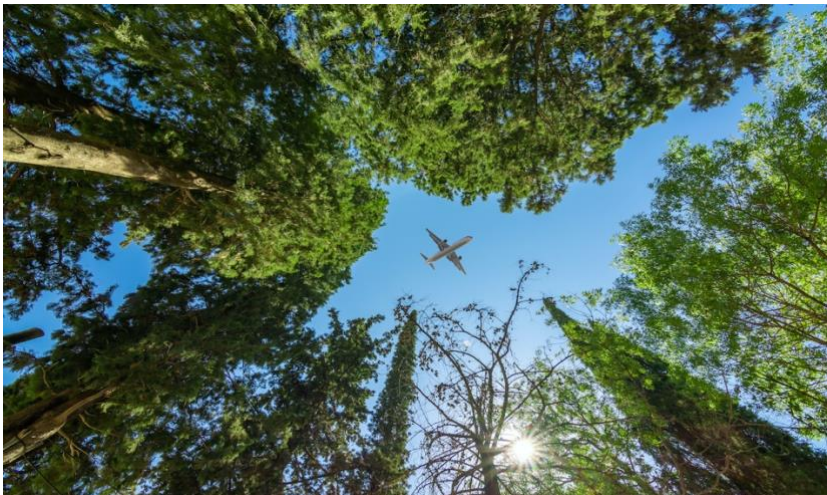
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## ECAC individual SAF tailored training

Individual in-person SAF training followed by remote support is considered the ideal option to build capacity and engage key national stakeholders, fundamental elements to develop a national SAF roadmap.

It is specially addressed to Member States who still do not have a national SAF roadmap in place.



ECAC SAF tailored training to individual States (in-person)

Module I:

Introduction to SAF

## Objectives

The objectives of this ECAC individual SAF tailored training are:

- To understand the European and global policy contexts towards aviation Net Zero emissions by 2050;
- To understand what are SAF and how can be produced.
- To understand why are needed and why policy action from States is necessary.
- To identify industrial and social opportunities from SAF promotion at Member State level.
- To get an overview of what other States are doing in Europe.

## Content

The tailored training will be conducted following the structure and contents of the [ECAC Guidance on Sustainable Aviation Fuels \(SAF\)](#):

- Background: What are SAF and why are they needed?
  - SAF definitions
  - SAF qualification and clearing houses
  - Technology options
  - Approved SAF technology pathways
  - SAF of non-biological origin
  - Recycled Carbon Fuels
  - SAF Benefits: Why are we promoting them?
  - Approaching aviation's climate ambitions
  - SAF as a means to reduce energy and fossil fuel dependency
  - The European aviation sector climate roadmaps.
- SAF barriers and the need for regulatory and policy action
  - Major identified challenges to upscaling SAF
  - The need for policy intervention
- The European SAF policy landscape
  - The EU Green Deal and the ReFuelEU Aviation initiative
  - European States' policies
  - The European SAF map
- SAF potentials in Europe
  - Feedstock and industrial potentials in Europe.

## Benefits

Acquire background knowledge of what are SAF and why are needed.

Duration: 1 day

Participants:

- Relevant staffs from the civil aviation authority and other national agencies such as ministries of environment, energy, and industry.
- Relevant national stakeholders, notably: Airlines and fuel producers and suppliers.

Fee: None

Location: Member State



ECAC SAF tailored training to individual States (in-person)

Module II:

Developing a SAF policy roadmap

## Objectives

The objectives of this ECAC individual SAF tailored training are:

- To understand what is needed to develop a SAF promotion strategy adapted to the particular Member State's needs.
- To understand the range of policy options or combination of policies that can be used to support the development of a SAF market at national level.

## Content

The tailored training will be conducted following the structure and contents of the [ECAC Guidance on Sustainable Aviation Fuels \(SAF\)](#):

- Considerations for creating a SAF strategy:
  - Gathering data and establishing a fact base,
  - Setting a vision for promoting SAF,
  - Developing national SAF roadmaps or transition pathways,
  - Flexible and inclusive policy,
  - Managing risk,
  - National, regional and international cooperation.
- Policy options to support the development of a scaled SAF market:
  - SAF feedstock sustainability,
  - Supply, demand and enabling policies,
  - Branch A: Stimulating growth of SAF supply,
  - Branch B: Demand-side measures to stimulate SAF uptake,
  - Branch C: Enabling SAF markets,
  - Interaction between supply, demand and enabling measures.

## Benefits

Understanding how to establish a SAF national roadmap and what SAF policy options can be developed and implemented in accordance with national needs.

Duration: 1 day

Participants:

- Relevant staffs from the civil aviation authority and other national agencies such as ministries of environment, energy, and industry.
- Relevant national stakeholders, notably: Airlines and fuel producers and suppliers.

Fee: None

Location: Member State

## ECAC collective SAF tailored training

Collective SAF training followed by remote individual support is considered an efficient option to build capacity and share information and ideas with other member States, for the implementation of national SAF roadmaps.

It is specially addressed to Member States who already have initiated a national SAF policy or regulation which needs to be further developed and implemented.





## ECAC SAF collective training to States (in-person)

### Option I:

Joint workshop among several Member States, hosted by one of them

### Objectives

This SAF tailored training will put the focus on the means to implement a national SAF promotion roadmap. Its objectives are:

- To understand what SAF are and how can be produced.
- To identify SAF promotion national opportunities.
- To know what other States are doing and exchange ideas.
- To understand what is needed to develop a SAF promotion strategy adapted to the Member State's needs.

### Content

The tailored training will be conducted based on the contents of the [ECAC Guidance on Sustainable Aviation Fuels \(SAF\)](#):

- Background: What are SAF and why are they needed?
  - SAF definitions, qualification and technology options
  - SAF to reduce energy and fossil fuel dependency
- SAF barriers and the need for regulatory and policy action
  - Major identified challenges to upscaling SAF
  - The need for policy intervention
- The European SAF policy landscape and SAF potentials
- Considerations for creating a SAF strategy:
  - Gathering data and establishing a fact base,
  - Setting a vision for promoting SAF,
  - Developing national SAF roadmaps or transition pathways,
  - Flexible and inclusive policy,
  - Managing risk,
  - National, regional and international cooperation.
- Policy options to support the development of a scaled SAF market
  - SAF feedstock sustainability,
  - Supply, demand and enabling policies,
  - Interaction between supply, demand and enabling measures.

### Benefits

Acquire background knowledge of what are SAF and why are needed. Understanding how to establish a SAF national roadmap and what SAF policy options can be developed and implemented in accordance with national needs.

Duration: 1 day

Participants:

- Relevant staffs from the civil aviation authority and other national agencies such as ministries of environment, energy, and industry.
- Relevant national stakeholders, notably: Airlines and fuel producers and suppliers.

Fee: None

Location: Member State



## ECAC SAF collective training to States (in-person)

### Option II:

Joint workshop among several Member States, hosted by ECAC

### Objectives

This SAF tailored training will put the focus on the means to implement a national SAF promotion roadmap and on exchanging views with other Member States with a similar policy context. Its objectives are:

- To understand what SAF are and how can be produced.
- To identify SAF promotion national opportunities.
- To know what other States are doing and exchange ideas.
- To understand what is needed to develop a SAF promotion strategy adapted to the Member State's needs.

### Content

The tailored training will be conducted based on the contents of the [ECAC Guidance on Sustainable Aviation Fuels \(SAF\)](#) and will include exchange sessions among Member States.

- Background: What are SAF and why are they needed?
- SAF barriers and the need for regulatory and policy action
  - Major identified challenges to upscaling SAF
  - The need for policy intervention
- The European SAF policy landscape and SAF potentials.
- Considerations for creating a SAF strategy and Exchanges about different national approaches:
  - Gathering data and establishing a fact base,
  - Setting a vision for promoting SAF,
  - Developing national SAF roadmaps,
  - Flexible and inclusive policy,
  - Managing risk,
  - National, regional, and international cooperation.
- Policy options to support the development of a scaled SAF market
  - Supply, demand and enabling policies,
  - Interaction between supply, demand and enabling measures.

### Benefits

Harmonise actions with other States with a similar context.

Understanding how to establish a SAF national roadmap and what SAF policy options can be developed and implemented in accordance with national needs.

Duration: 2 days

Participants:

- Relevant staffs from the civil aviation authority and other national agencies such as ministries of environment, energy, and industry.
- Relevant national stakeholders, notably: Airlines and fuel producers and suppliers.

Fee: None

Location: ECAC premises (Paris)

