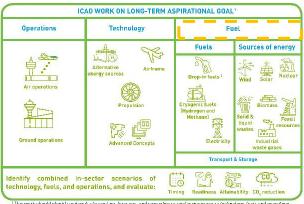


### Introduction and context





This work should dentify and evaluate existing, foreseen, and immorphie in sector measures in technology, fuels and operations, and their enablem, inclination of probable costs. This was seed in incontiguous gaps, and information and expertise meeted, in more to complete the morphies assessment of with meeter OF, productions or informational evaluation. This should include finding, readons, actionability and the quantity of OF, reduction probable, disagree on a fossible ratio and most the addition sector. "Substantiable information bears (SAF), four darbor insert intelligibility, it results. Success most principle in over internal sectors."

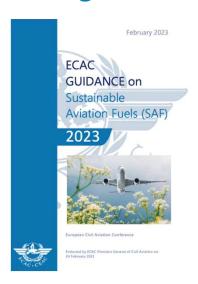
- → SAF and alternative energies are the main contributors for reaching the Net Zero 2050:
  - → 'Zero' fossil CO2 in flight and savings overall the life cycle
  - Reduce non-CO2 effects (contrails)
  - → Diversify supplies
  - → Do not modify range, seat capacities nor infrastructures



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### CEAC – guía sobre SAF

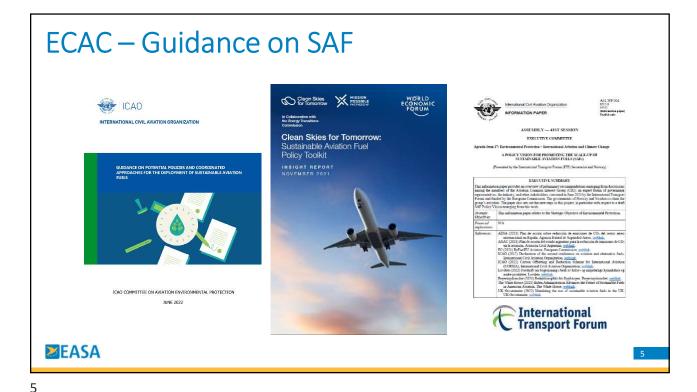


- → Task group at the environment group (EAEG) of ECAC (44 States)
  - → Formed by 29 experts from 13 ECAC States and three organisations (EASA, EUROCONTROL, and the EC)
  - → Workshops with industry stakeholders
- → Executive guide, focused in decision making



4

**EASA** 



# Guidance's purposes



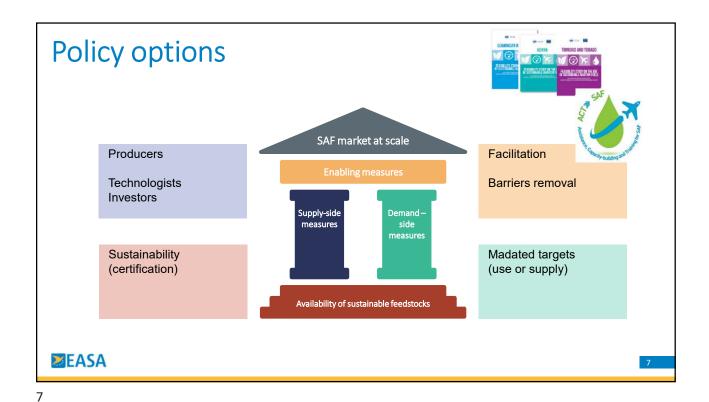
- ✓ Promote technical understanding;
- ✓ identify SAF potentials and possible barriers;
- ✓ share information about the policy landscape in different European States;
- ✓ provide a wide overview of possible policy options;
  and



✓ provide best practices and key policy recommendations to set harmonised implementation approaches.

**EASA** 

6



Examples – supply measures → Innovation funds Horizon Europe – european research program → Contracts for difference SDE++ program (the Netherlands) 10 **EU ETS SAF allowances** options  $\rightarrow$ → Combining grants and soft loans United Kingdom Green Fuels, Green Skies (GFGS) Competition Brazil's Renovabio Programme → Tax incentives Blender's Tax Credit (BTC) (USA) France –1% SAF mandate Brazil's National Biodiesel Production and Use Programme **EASA** 

## Section III: Key policy recommendations

- → Create SAF national strategies and implementation plans.
- → Develop national SAF roadmaps or transition paths.
- → Stablish targets and **create certainty** to mobilize investment.
- → Guarantee sustainability with credible emissions reductions and generate social trust.
- → Select the more suitable policy or set of policies (supply, demand, market).



9

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## Targets and actions in the EU



- European Green Deal: the EU aim to be climate neutral in 2050.
- Intermediate target: reduce emissions by at least 55% by 2030 (Fit for 55).
- Actions across <u>all</u> sectors of the economy, including air transport.

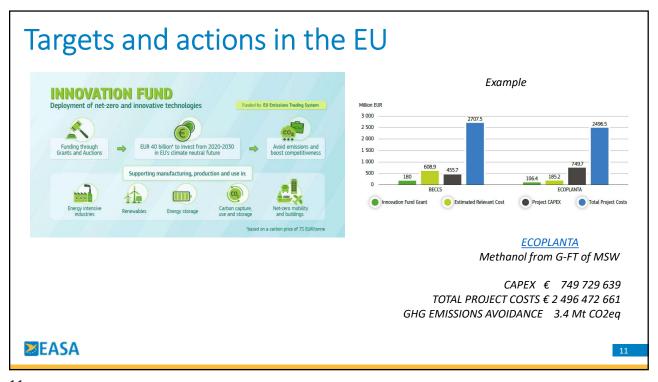


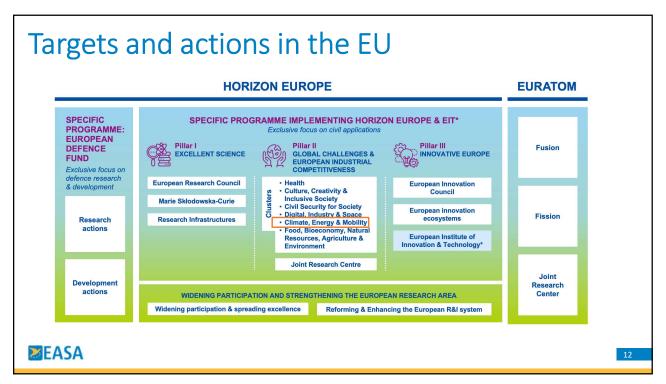
- Specific targets for aviation at the regulation\* ReFuelEU Aviation
- R&D support: Horizon Europe, Innovation Fund, InvestEU
- EU taxonomy. Taxonomy for green investment to faciliate access to finance
- Incentives to reduce the price gap between fossil and SAF (up to €2 bn)
- SAF Clearing House to bring new SAF pathways to the market (+US y UK)
- Booster industrial cooperation (Renewable and Low-Carbon Fuels Value Chain Industrial Alliance (RLCF))
- Net Zero Industry Act to strengthen EU net-zero technology products manufacturing ecosystem



**EASA** 

10





# Targets and actions in the EU

HORIZON-CL5-2023-D3-01-06 Demonstration of advanced biofuel technologies for aviation and/or shipping



Cluster 5 - 2023 Destination 3 (Sustainable, secure and competitive energy supply)



### TYPE OF ACTION

 IA –Innovation Action Expected TRL 6-7 by the end



### **EU CONTRIBUTION**

- Per project: 9 M€
  - Total: 18 M€



- Call opening: 13 December 2022
- Call closing: 30 March 2023

HORIZON-CI 5-2023-D3-01-07 Demonstration of synthetic renewable fuel for aviation and/or shipping



#### TYPE OF ACTION

- IA –Innovation Action
- Expected TRL 6-7 by the end



Per project: 9 M€



#### TIMING

- Call opening: 13 December 2022
- Call closing: 30 March 2023

13



13

# Targets and actions in the EU



### Who is eligible for funding?



### **EU COUNTRIES**

- Member States (MS) including their outermost regions.
- The Overseas Countries and Territories (OCTs) linked to the MS.



### **NON-EU COUNTRIES**

- Countries associated to Horizon Europe (AC).
- Low and middle income countries: See HE Programme Guide.
- Other countries when announced in the call or exceptionally if their participation is essential.



### SPECIFIC CASES

- Affiliated entities established in countries eligible for funding.
- EU bodies
- International organisations (IO):
  - International European research
  - Other IO are not eligible (only exceptionally if participation is essential)
  - IO in a MS or AC are eligible for funding for Training and mobility actions and when announced in the call conditions.



# International cooperation

- → **EU support to the LTAG** for international aviation of net-zero carbon emissions by 2050 adopted at the 41<sup>st</sup> ICAO Assembly.
- → EU fully committed to support SAF production around the world.
- → SAF capacity building projects:
  - → EU capacity building projects on sustainable aviation, including on SAF (budget of €21 million since 2014).
  - → Upcoming projects of €4 million under ACT-SAF:
    - → implemented with ICAO and EASA
    - → feasibility studies and policy development support to foster SAF.





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