



KAPÉ
CRES



MINISTRY OF
ENVIRONMENT
& ENERGY



Sustainable Aviation Fuels

time for take-off

POLICIES and MARKETS

RESOURCES and TECHNOLOGY STATUS

7-8 November 2024

Athens, Divani Palace Acropolis



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A few words about the conference

The Fit for 55 package of the European Union has accelerated several policy initiatives aiming to move Europe forward to the objective of climate neutrality. Among those, the RefuelEU aviation Initiative rests the obligation on the aviation fuel suppliers to ensure that all fuel made available to aircraft operators at EU airports contains a minimum share of SAF from 2025 and, from 2030, a minimum share of synthetic fuels, with both shares increasing progressively until 2050. The targets are very ambitious, especially for 2025.

To achieve the RefuelEU aviation Initiative targets, the onus is placed on the industry to deliver significant volumes of advanced biofuels and synthetic fuels in an unprecedented pace. At the same time, the size of the required investments entailed in such accelerated deployment is unheard of, while international and national investors are wary due to the continuously amended legislative European landscape.

To meet the targets, innovative value biomass supply chains will have to be established to provide the resources needed in a reliable manner giving confidence to potential investors. In addition, key biomass conversion SAF technologies are still under innovative development. In sort, it is a complex airspace. The Centre of Renewable Energy Sources and Saving is organizing this conference under the auspices and patronage of the Ministry of Environment and Energy of Greece aiming to inform the stakeholders on the necessary actions that must be undertaken to place the Greek aviation industry on an accelerated FlightPath to achieve the aims and objectives of the ReFuelEU aviation Initiative for Greece.

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Thursday, 7 November 2024

POLICIES and MARKETS

09:30-10:00 Registrations

10:00-10:40 Opening session

Welcome by Chair: •Dimitris Kardomateas, CRES President and General Director

- Theodoros Skylakakis, Minister of Environment and Energy
- Alexandra Sdoukou, Deputy Minister of Environment & Energy
- Vasilis Oikonomou, Deputy Minister of Infrastructure and Transportation
- Prof. Yannis Maniatis, Member of the European Parliament, Vice President of the S&D Group, f. Minister of Environment and Energy
- Prof. Nikolas Farantouris, Member of the European Parliament, Jean Monnet Professor of EU Energy Law, f. Chair of Legal, EUROGAS Brussels
- Maria Georgiadou, EC Directorate General for Research and Innovation

10:40-12:00 Session I: International Aviation Developments

Chairperson: Myrsini Christou

- Preeti Jain, Net Zero Transition Programs, IATA
"Decarbonizing Aviation & Role of SAF"
- Matteo Prussi, Politecnico di Torino, EU representative at ICAO
"The role of SAF in the ICAO CORSIA initiative"
- Kees Kwant, Dutch Enterprise Agency *"Integrated Biorefineries Mission as a tool to develop advanced SAF through international collaboration"*
- Kyriakos Maniatis, Consultant, f. EC Directorate General for Energy
"Comparative analysis on international SAF policies and markets"

12:00-12:20 Coffee Break & Networking

12:20-13:20 Session II: European Policy Developments

Chairperson: Myrsini Christou

- Ewa Oney, EC Directorate General for Transport *"ReFuelEU Aviation policy framework: were are we and what is next?"*
- Eric Van den Heuvel, studio Gear Up *"An integrated, multi-sectoral policy support is needed to boost investments on renewable fuels"*
- Sergi Alegre, Airport Regions *"Looking the SAF Iceberg: a lot done, a lot to be done"*

13:20-14:00 Panel Discussion I: Are we on the right Flightpath?

Moderator: Eric van den Heuvel

Panelists: Maria Georgiadou, Preeti Jain, Matteo Prussi, Kees Kwant, Kyriakos Maniatis, Ewa Oney, Sergi Alegre

14:00-15:00 Lunch Break

15:00-15:40 Session III: Considerations on National SAF Policy

Chairperson: Kyriakos Maniatis

- Aristotelis Aivaliotis, General Secretary of Energy and Minerals
"National SAF policy developments and targets"
- Christos Tsitouras, Governor D/G Hellenic Civil Aviation Authority
"Refueling Aviation in Greece, HCAA Flightpath towards effective implementation of SAF Regulation"

15:40-17:00 Session IV: Practical SAF experiences in Greece

Chairperson: Kyriakos Maniatis

- Spyros Svoronos, Book Leader Domestic Market Motor Oil *"MOH Experiences in Jet Fuel Market Development"*
- Michalis Papazoglou, Director of Refineries Planning & Operation Optimization Division, HELLENiQ ENERGY *"Sustainable Aviation Fuels for the Helleniq Energy"*
- Panagiotis Argianas, Aviation Fuels & Services Manager, EKO ABEE HELLENiQ ENERGY *"EKO SAF Experience in Greece"*
- Giorgos Govatzidakis, Sustainability Manager, AEGEAN *"AEGEAN – embracing sustainability, our experience to date"*

17:00-17:20 **Panel Discussion II: SAF Opportunities in Greece – What needs to be done**

Moderator: Kyriakos Maniatis

Panelists: Aristotelis Aivaliotis, Christos Tsitouras, George Mitkidis - Head of Alternative & Renewable Fuels Motor Oil, Panagiotis Argianas, Giorgos Govatzidakis

17:20-17:40 **Coffee Break & Networking**

17:40-19:00 **Session V: SAF Global Market situation**

Chairperson: Eric van den Heuvel

- Jim Spaeth, US Department of Energy *"US SAF policy and market"*
- Eline van Berlo, SkyNRG *"Global SAF markets – Are we on track?"*
- Blanca de Ulibarri, Round Table on Sustainable Biomaterials *"SAF sustainability and certification"*
- Eleni Liakakou, Ricardo *"The EU SAF Clearing House"*

19:00-19:20 **Panel Discussion III: International aviation readiness to operate with SAF**

Moderator: Eric van den Heuvel

Panelists: Jim Spaeth, Eline van Berlo, Blanca de Ulibarri, Eleni Liakakou

20:30 **Conference Dinner**

Friday, 8 November 2024

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09:30-09:40 **Welcome by Chairs: Myrsini Christou & Kyriakos Maniatis**

09:40-10:00 **Keynote speech**

- Maria Georgiadou, EC Directorate General for Research and Innovation *"Global challenges and European strategy for SAF innovation"*

10:00-11:20 **Session VI: SAF commercial technologies**

Chairperson: Kees Kwant

- Ralph-Uwe Dietrich, German Aerospace Center *"Towards SAF mass production in Europe – technical opportunities and economic challenges"*
- Yvon Bernard, AXENS *"Axens Technologies for Sustainable Aviation Fuels: A Complementary Approach for Achieving Greenhouse Gas Reduction Goals"*
- Michael Hecquet, Total Energies *"Total Energies approach to SAF: current experiences and looking to the future"*
- Ronnie Maddox, Lanzajet *"Someday is Now"*

11:20-11:40 Coffee Break & Networking

11:40-12:20 Session VII: SAF technologies in large scale demonstration

Chairperson: Kees Kwant

- Bert Van De Beld, BTG Bioliquids *"Sustainable Aviation Fuel from biomass via fast pyrolysis bio-oil"*
- Martin Stephan, Global Bioenergies *"From cosmetics to SAF: Fostering the environmental transition through biosciences"*

12:20-13:00 Panel discussion IV: Do we have reliable technologies for SAF market deployment?

Moderator: Ralph-Uwe Dietrich, German Aerospace Center

Panelists: Yvon Bernard, Michael Hecquet, Ronnie Maddox, Bert Van De Beld, Martin Stephan

13:00-14:00 Lunch break

14:00-14:40 Session VIII: SAF technologies in innovative development - International cooperation for sustainable aviation biofuels: the ICARUS project as Greek SAF Incubator

Chairperson: Maria Georgiadou

- Myrsini Christou, CRES *"Sustainable feedstock for SAF production"*
- Francisco Girio, LNEG *"The biocrude to SAF pathway"*
- Ikker Aguirrezabal, EHU/EUS *"The alcohols to SAF pathway"*
- Yadi Ganjkanlou, TNO *"The syngas to SAF pathway"*

14:40-15:40 Session IX: SAF technologies in innovative development (a)

Chairperson: Maria Georgiadou

- Myrsini Christou, CRES *"Bioenergy, biogas and biofuels: Research and innovation gaps in the EU – EERA Position Paper"*
- Efthymia Alexopoulou, CRES *"Bridging the gap between phytoremediation on growing energy crops on contaminated lands and clean biofuel production within GOLD project"*
- Maria Loizidou, NTUA, *"The role of Bio-Oil, Bioethanol and Algae for Sustainable Aviation Fuels – pathways developed within LIFE CIRCforBIO and HORIZON CRONUS projects"*

15:40-16:00 Coffee Break & Networking

16:00-17:00 Session X: SAF technologies in innovative development (b)

Chairperson: Myrsini Christou

- Dimitris Kourkoumpas, CERTH *"Collaborative Actions to Bring Novel Biofuels Thermochemical Routes into Industrial Scale within the BioTheRos project"*
- Konstantinos Atsonios, CERTH *"Advanced biofuels and renewable fuels for Aviation and maritime from a sustainable value chain within FUELPHORIA project"*
- Stella Bezergianni, CERTH *"Hybrid biofuels from bio-based intermediates refinery integration – BioMates & ABATE projects"*

17:00-17:30 Panel discussion V: Where do we stand with innovation in SAF technologies?

Moderator: Maria Georgiadou

Panelists: Myrsini Christou, Francisco Girio, Ikker Aguirrezabal, Yadi Ganjkanlou, Efthymia Alexopoulou, Maria Loizidou, Dimitris Kourkoumpas, Konstantinos Atsonios, Stella Bezergianni

17:30-17:40 Closing remarks

Myrsini Christou, Kyriakos Maniatis



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