

WELCOME

ICARUS Final Conference

International R&I Cooperation on Sustainable Aviation Fuels

25 September 2026, 9:00 – 17:00, Brussels
Comet Louise (Room 3.4), Pl. Stephanie 20, Brussels – and ONLINE



ICARUS Final Conference - Agenda



Final Agenda	
09:00 – 10:00	Registration, coffee and networking
Opening	
10:00 – 10:10	Welcome and introduction <i>Rainer Janssen, WIP Renewable Energies, Germany</i>
10:10 – 10:25	ICARUS in a snapshot <i>Myrsini Christou, CRES, Greece</i>
10:25 – 10:40	Financing instruments for SAF upscaling <i>Mrs. Maria Georgiadou, DG RTD</i>
SESSION 1 – ICARUS R&I Achievements on SAF Value Chains	
10:40 – 10:50	Enabling scalable SAF production through feedstock innovation <i>Walter Zegada Lizerazu, University of Bologna, Italy</i>
10:50 – 11:00	Innovation in biocrude oils to SAF <i>Paula Costa, LNEG, Portugal</i>
11:00 – 11:10	Innovation in isobutanol/alcohol to SAF <i>Iker Aguirrezabal, University of the Basque Country, Spain</i>
11:10 – 11:20	Innovation in syngas to SAF <i>Berend Vreugdenhil, TNO, The Netherlands</i>
11:20 – 11:45	Open discussion “ICARUS innovations on SAF value chains” <i>Moderator: Myrsini Christou, CRES, Greece</i>

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Coffee break and networking (11:45 – 12:00)	
SESSION 2 – Assessments, Policies and Markets	
12:00 – 12:10	Environmental impacts of SAF value chains <i>Marcos Djun Barbosa Watanabe, NTNU, Norway</i>
12:10 – 12:20	Cost analysis of SAF production <i>Franziska Mueller-Langer, DBFZ, Germany</i>
12:20 – 12:30	SAF policies and markets <i>Kyriakos Maniatis, Consultant, Belgium</i>
12:30 – 12:40	SAF sustainability certification <i>Esther Hegel, RSB, Switzerland</i>
12:40 – 13:00	Open discussion “SAF impacts, costs, policies and markets” <i>Moderator: Franziska Mueller-Langer, DBFZ, Germany</i>
Lunch break and networking (13:00 – 14:30)	
SESSION 3 – External Insights	
14:30 – 14:45	CONCAWE perspectives on the future role of SAF <i>Ramasary Abinash, CONCAWE</i>
14:45 – 15:00	Airport Regions Council (ARC) perspectives on the future role of SAF <i>Alena Maximova, Airport Regions Council (ARC)</i>
15:00 – 15:15	Nufarm perspectives on the future role of SAF <i>Andre Paula Santos, Nufarm</i>
15:15 – 15:30	Open discussion “External insights” <i>Moderator: Kyriakos Maniatis, Consultant, Belgium</i>
Coffee break and networking (15:30 – 15:45)	
SESSION 4 – ICARUS Outlook on SAF Innovation	
15:45 – 16:15	ICARUS best practices and concepts <i>Berta Matas Güell, SINTEF, Norway; Esther Hegel, RSB, Switzerland; Kyriakos Maniatis, Consultant, Belgium</i>
16:15 – 16:55	Outlook on exploitation of ICARUS SAF innovation <i>Moderator: Rainer Janssen, WIP, Germany</i>
16:55 – 17:00	Conclusions and farewell <i>Myrsini Christou, CRES, Greece</i>

ICARUS Partnership

Partners



Associated Partners



OPENING SESSION

ICARUS Final Conference International R&I Cooperation on Sustainable Aviation Fuels



SESSION 1

ICARUS R&I Achievements on SAF Value Chains

ICARUS Final Conference International R&I Cooperation on Sustainable Aviation Fuels

Open discussion “ICARUS innovations on SAF value chains”

Moderator: Myrsini Christou, CRES, Greece



COFFEE BREAK

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SESSION 2

Assessments, Policies and Markets

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Open discussion “SAF impacts, costs, policies and markets”

Moderator: Franziska Mueller-Langer, DBFZ, Germany



LUNCH BREAK

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SESSION 3

External Insights

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Open discussion “External Insights”

Moderator: Kyriakos Maniatis, Consultant, Belgium



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SESSION 4

ICARUS Outlook on SAF Innovation

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Open discussion “ICARUS Outlook on SAF Innovation”

Moderator: Rainer Janssen, WIP, Germany



ICARUS Key Exploitable Results (KER)

Expected outcome (KER)	Use model	Means of protection	Key actors (partners)	End users
New knowledge on mixed cropping systems - Practical agronomic guidelines	Consultancy and technical advice for farmers, used in further applied and scientific work.	Open source, open data, tbd	UNIBO, CRES	Biomass-producing farmers
Nitrogen removal technology for improving the quality of biocrude oils	Further applied and scientific work, upscaling to commercial scale, consultancy.	Patent, tbd	BIOREF, LNEG, SINTEF, DBFZ	Customers/end-users: Catalyst and enzyme companies, chemical industry, aviation sector
Optimized yeast for the direct conversion of cellulose and C5 and C6 sugars into isobutanol	Isobutanol production in demo facility and subsequently in commercial facilities, license KER and associated isobutanol production technology	Patent application filed on the engineered 2G isobutanol yeast	NovelYeast, EHU, TNO, AVIONIC	Chemical companies using isobutanol as solvent or chemical reagent, biofuel companies selling isobutanol
Novel syngas-to-SAF production process (SOSAF)	Licensing, further applied and scientific work, scaling to commercial scale	Patent (requested, ongoing)	TNO, (GALP)	General fuel producers or dedicated SAF producers
Impact indicators for sustainability assessments of SAF production routes	Further applied and scientific work, consultancy	Open source/ open data	UNIBO, TNO, LNEG, EHU, NovelYeast, NTNU, CRES, NEVIS, RSB, SENAI	Fuel producers, technology providers, research organisations, policymakers

KER 1 – New knowledge on mixed cropping systems

Description

Field-based knowledge on intercropping systems combining biomass crops with legumes and biostimulant application

UVP

Integrated approach combining biomass crop-legume intercropping and biostimulant application to optimize biomass production while reducing reliance on external nitrogen inputs

Target market

Agricultural sector focused on sustainable biomass production

End-users

Biomass-producing farmers

Use model

Knowledge transfer, advisory activities, scientific publications, technical advice to farmers

IP protection

Not foreseen, open dissemination, technical guidelines, other knowledge-transfer activities

KER 2 – Nitrogen removal technology for improving the quality of biocrude oils

Description

Unique knowledge on efficient N removal from biocrude oils of different origins prior to hydrotreatment

UVP

Lower hydrogen demand, improved catalyst lifetime and more stable process performance, efficient upgrading of highly heterogeneous and nitrogen-rich feedstocks such as microalgae

Target market

Refineries, oil and energy companies, tech. providers, biofuel prod.

End-users

Catalyst and enzyme companies, chemical industry, aviation sector

Use model

Short term:
Contract research followed by IP protection

Medium-term:
Licencing

IP protection

IP protection under evaluation

KER 3 – Optimized yeast for the direct conversion of cellulose and C5 and C6 sugars into isobutanol

Description

Industrial yeast strain for the production of **isobutanol** from lignocellulosic side streams that secretes all **major cellulose hydrolyzing enzymes**: endoglucanase, cellobiohydrolase I, cellobiohydrolase II and beta-glucosidase

UVP

Reduced amount of commercial enzyme cocktail required for saccharification of the lignocellulose side streams. **Improved economic viability** of commercial isobutanol production process.

Target market

Commercial isobutanol production, SAF production

End-users

Companies producing isobutanol and SAF via isobutanol route (**early adopters in India**)

Use model

2G isobutanol yeast to be licenced (to isobutanol producers and EPC companies selling isobutanol plants)

Training for the use of 2G isobutanol yeast

IP protection

Granted patent protection in India for proprietary genetic modification in 2G isobutanol yeast
New patent application on cellulase-secreting 2G isobutanol yeast

Upcoming: ICARUS Exploitation Outlook Summary Report