

# Build Your Own Sustainable Aviation Fuels Case

How to become SAF ready? How to make SAF happen?

SAF Training for ACI Africa & AFRAA

23.-25.04.2025, Arusha, Tanzania

# Introduction to the SAF Training for ACI Africa & AFRAA

## Topic

### Build Your Own Sustainable Aviation Fuels Case



**Raphaela Spielberg**



[raphaela.Spielberg.ext@easa.europa.eu](mailto:raphaela.Spielberg.ext@easa.europa.eu)  
[rspielberg@cbr-partner.de](mailto:rspielberg@cbr-partner.de)



CBR Sustainability Partners



Project Manager

Raphaela Spielberg has over 7 years professional experience in the financial field, and 5 years of experience in strategy development and implementation of impact projects and climate technologies and with experience in thematical investment consulting and climate risk management of ESG compliant projects. She is experienced in assessing and developing business cases in the PtX field, analysing global challenges and opportunities, executing the financial modelling and conducting deep-dive research of risk and sensitivity.

#### ***Consulting Focus @ CBR Sustainability Partners***

- Project management and business planning, e.g., application support for EU funding programs for the demonstration of innovative low-carbon technologies (EU Innovation Fund)
- Sustainability (CSR) and ESG concept development and implementation (strategy, roadmaps, reporting, labels)

#### ***Education***

- Sustainability & Climate Risk Professional, GARP
- Master in Sustainable Finance, NOVA SBE, Lisbon

# Introduction to the SAF Training for ACI Africa & AFRAA

## Topic

### Build Your Own Sustainable Aviation Fuels Case



**Christoph Behrendt-Rieken**

@ [christoph.behrendt-rieken@eu-sea-ccca-corsia.org](mailto:christoph.behrendt-rieken@eu-sea-ccca-corsia.org)  
[cbehrendt@cbr-partner.de](mailto:cbehrendt@cbr-partner.de)



CBR Sustainability Partners



CEO & Founder

More than 15 years experience in the chemical process industry, large production infrastructure projects and technology development with focus on green transition of various industries via ClimateTech related innovation (renewable fuel, green chemistry, sustainability, environmental management systems, environmental certification, etc.)

#### *Consulting Focus @ CBR Sustainability Partners*

- Commercial project development and deal advisory (due diligences, etc.) of green energy, fuel and chemicals investments and production plant projects
- Renewable fuel and chemical regulatory, commercial and technology expertise

#### *Education*

- EMBA -Executive Master of Business Administration-, Kellogg School of Management at Northwestern University / WHU Otto Beisheim School of Management
- Diploma -International Business Studies-, University of Paderborn, Germany / École Supérieure de Commerce de Reims, Grande École / NEOMA Business School, France.

# Introduction to the SAF Training for ACI Africa & AFRAA

## Topic

### Build Your Own Sustainable Aviation Fuels Case



**Dr. Fabian Schmitt**

@ [fschmitt@cbr-partner.de](mailto:fschmitt@cbr-partner.de)



CBR Sustainability Partners



Technology Expert

Dr. Fabian Schmitt is a professional in green chemicals such as sustainable aviation fuels with profound knowledge in chemical conversion technologies with expertise in electrochemical processes, electrochemical and thermochemical conversion of carbon dioxide to produce base chemicals, as well as methanol and FT-synthesis.

#### *Consulting Focus @ CBR Sustainability Partners*

- Technology assessments, feasibility studies and techno-economic analysis in the field of renewable gases and liquids, hydrogen, Power-to-X, sustainable fuels (SAF) and green chemicals
- Expertise in regulatory policies with focus on renewable fuels, such as SAF
- Focus on renewable fuel production technologies, feedstock availabilities and CO<sub>2</sub> reduction potentials

#### *Education*

- PhD in Chemical Engineering, TU Darmstadt, Germany
- Master in Chemical Engineering, TU Darmstadt, Germany / Aalto University Espoo, Finland
- Bachelor in Chemistry, TU Darmstadt, Germany

# Introduction to the SAF Training for ACI Africa & AFRAA

## Topic

### Build Your Own Sustainable Aviation Fuels Case



**Nipun Jagtap**

@ [njagtap@cbr-partner.de](mailto:njagtap@cbr-partner.de)



CBR Sustainability Partners



Technology Expert

Nipun Jagtap is a highly experienced professional in the field of sustainable aviation fuels, with a strong track record in process development and the techno-economic feasibility studies of sustainable technologies. His expertise extends to process designing and modelling, conducting feasibility studies and developing guidelines for the holistic assessment of sustainable technologies and consulting in private sector.

He is experienced in conducting experimental and simulation research of the production processes related to renewable chemicals, Power-to-X processes, sustainable aviation fuels (SAF), and green chemicals.

#### ***Consulting Focus @ CBR Sustainability Partners***

- Conducting techno-economic evaluation of innovative green fuel and sustainable chemical production processes.
- Optimizing the viability and commercial feasibility of the project by critically addressing the bottlenecks.

#### ***Education***

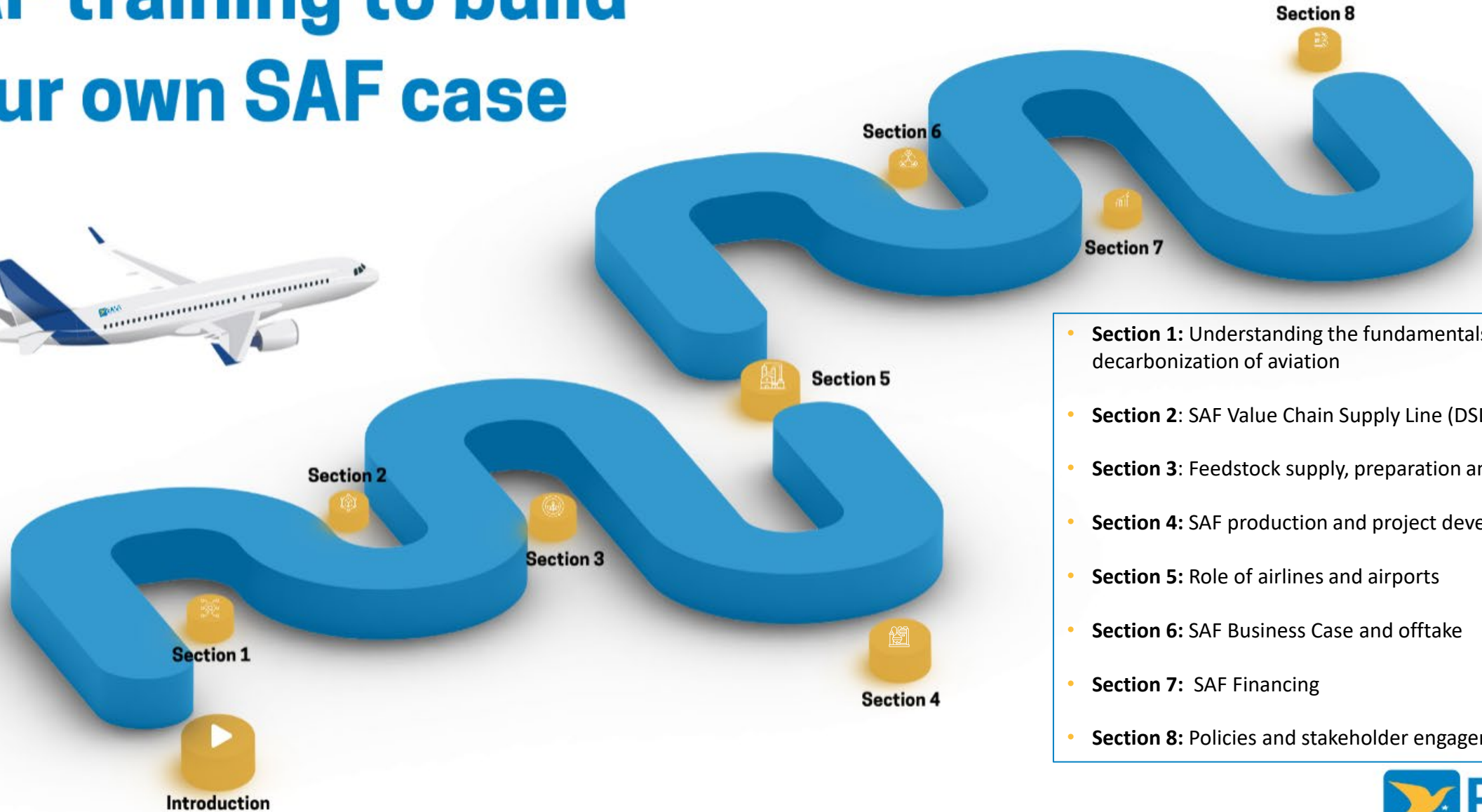
- Master in Process Engineering and Energy Technology, HS-Bremerhaven
- Bachelor in Chemical Engineering, ICT-Mumbai

# Q&A and Quiz

Join at  
**slido.com**  
**#saf-training1**



# SAF training to build your own SAF case



- **Section 1:** Understanding the fundamentals of SAF and decarbonization of aviation
- **Section 2:** SAF Value Chain Supply Line (DSL) Concept
- **Section 3:** Feedstock supply, preparation and certification
- **Section 4:** SAF production and project development
- **Section 5:** Role of airlines and airports
- **Section 6:** SAF Business Case and offtake
- **Section 7:** SAF Financing
- **Section 8:** Policies and stakeholder engagement



# Overview on eight SAF Training Sections

## The fundamentals of SAF

**Section 1**  
Understanding the fundamentals of SAF and decarbonization of aviation



**Section 2**  
SAF Value Chain Supply Line (SDL) Concept



**Day 1**

## Central elements of the SAF Direct Supply Line

**Section 3**  
Feedstock supply, preparation and certification



**Section 4**  
SAF production and project development



**Section 5**  
Role of airlines and airports



**Day 2**

## SAF Direct Supply Line enablers and supporting functions

**Section 6**  
SAF Business Case and offtake



**Section 7**  
SAF Financing



**Section 8**  
Policies and stakeholder engagement

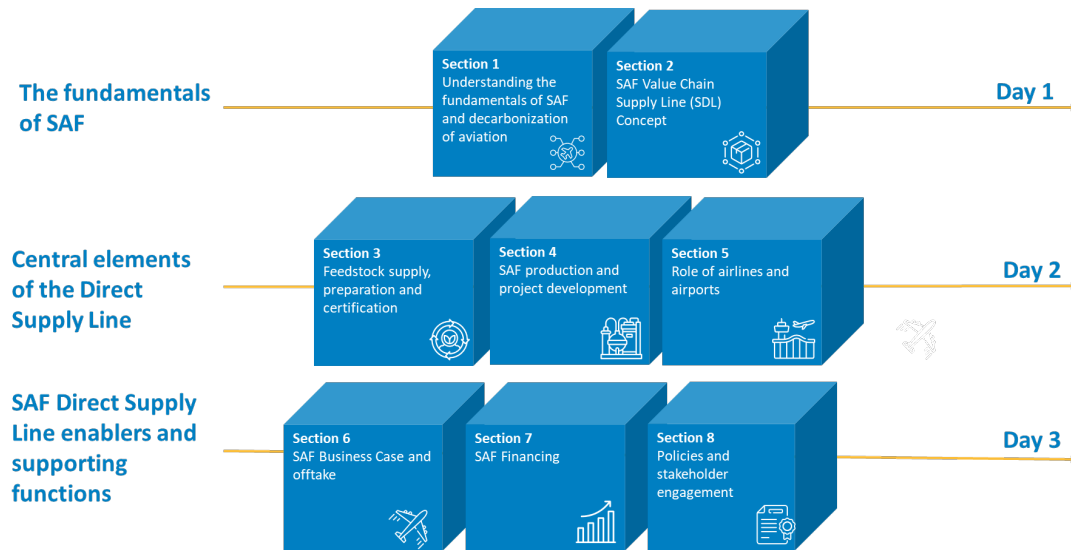


**Day 3**



# The SAF training provides your SAF Case Playbook

**The SAF Case Playbook shall assist you in building your own case during the training.**



## The training provides...

- Key fundamentals and insights per element of the SAF case
- Industry expert insights and case studies
- Tools and methodologies

## You will be able to...

- Position your company and define your role in the SAF value chain
- Learn the elements and tools to build your own SAF case
- Become able to cooperate with key stakeholders in SAF project developments and SAF sourcing on eye level



## Section 1: Understanding the fundamentals of SAF and decarbonization of aviation



Analyzing SAF's impact in decarbonizing aviation



Applying technical sustainability knowledge

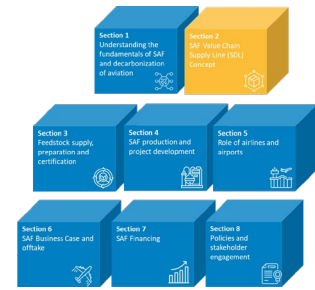


Leveraging SAF benefits



## Section 2: Value Chain & DSL

-  Applying the SAF Direct Supply Line framework
-  Strategically integrating SAF stakeholder insights
-  Building collaborative SAF task forces





## Section 3: Feedstock supply, preparation and certification



Following feedstocks' classification and certification



Understanding Life Cycle Assessment (LCA)



Evaluating the role of feedstock





## Section 4: SAF production and project development



Understanding SAF production pathways



Navigating SAF projects lifecycle



Understanding technology and mitigating risks





## Section 5: Role of airlines and airports

-  Enabling to define its role in the SAF Value Chain
-  Enabling to develop its SAF deployment strategy
-  Enabling to create beneficial partnerships
-  Sharing best practices and role models
-  Strengthening advocacy in SAF policy design





## Section 6: SAF Business Case and Offtake



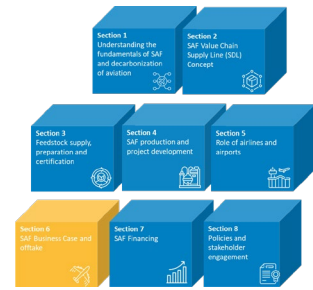
Assessing SAF business cases



Understanding SAF techno-economic project analyses



Securing SAF supply through engagement options





## Section 7: SAF Financing



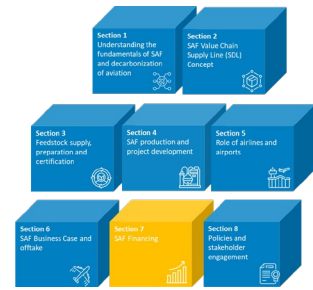
Navigating SAF financing sources




Assessing SAF financing structures



Understanding bankability requirements





## Section 8: Policies and stakeholder engagement

-  Navigating SAF policy design options
-  Strengthening advocacy in SAF policy design
-  Fostering SAF stakeholder engagement



# Q&A and Quiz

Join at  
**slido.com**  
**#saf-training1**



# Thank you for your attention!

[easa.europa.eu/connect](https://easa.europa.eu/connect)



## Your safety is our mission.

An Agency of the European Union 