



RSB Certification ICAO Webinar

Yitatek Yitbarek

26 June 2024

Agenda

1 Introduction to RSB

2 RSB and SAF in Africa

3 Certification approach

4 Sustainability requirements

5 Traceability and chain of custody

6 Q&A

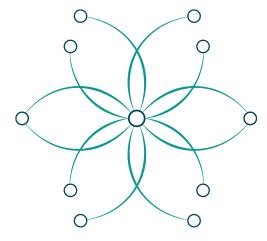


Section 1

Introduction to RSB



Our mission



To advance the just and sustainable transition to net-positive world – where climate change has been mitigated, biodiverse ecosystems restored, and livelihoods enhanced.

Our activities



Certification

Providing clarity on what good looks like



Implementation

Building capability to make change happen



Convening

Enabling collaboration for greater impact





Our global membership is highly diverse A wide range of organisations across supply chains, regions and industries





























































The RSB Principles & Criteria





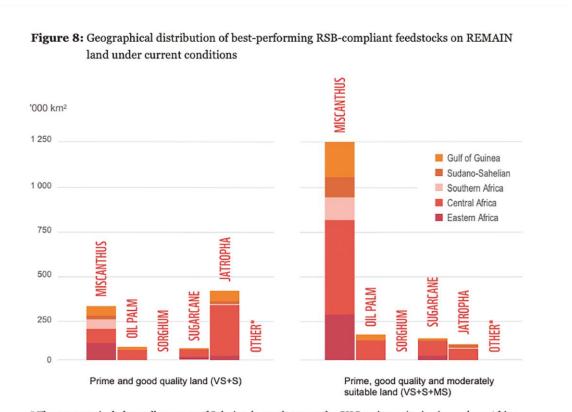
Section 2

RSB and **SAF** in Africa



Report on SAF potential – Sub-Saharan Africa

- International Institute for Applied Systems Analysis (IIASA) assesses pathways towards large-scale sustainable biofuel development in Sub-Saharan Africa.
- The report "Taking off: Understanding Sustainable Aviation Biofuel Feedstock Potential in Sub-Saharan Africa", is based on a spatially detailed resource assessment for different biofuel feedstocks.



^{*} These extents include small amounts of Solaris tobacco that meet the GHG savings criterion in southern Africa. Source: Own calculations

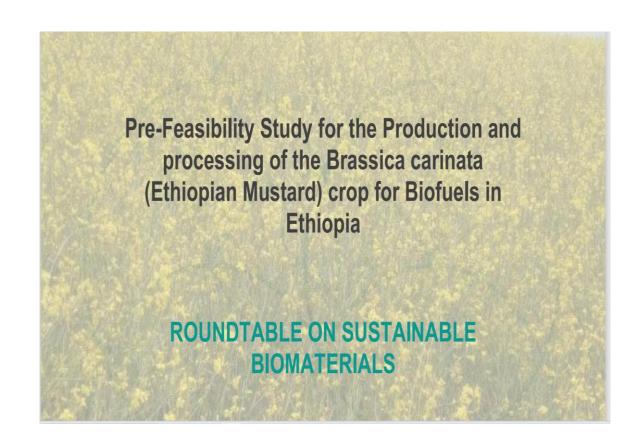
National SAF roadmap – Ethiopia

To explore and advance
 Ethiopia's capacity to produce
 biofuels for use as Sustainable
 Aviation Fuel (SAF), RSB
 initiated the development of a
 10-year SAF Roadmap for the
 country – with a report detailing
 a roadmap for SAF
 development in the country.



Pre-feasibility study on Brassica Carinata as sustainable feedstock for SAF – Ethiopia

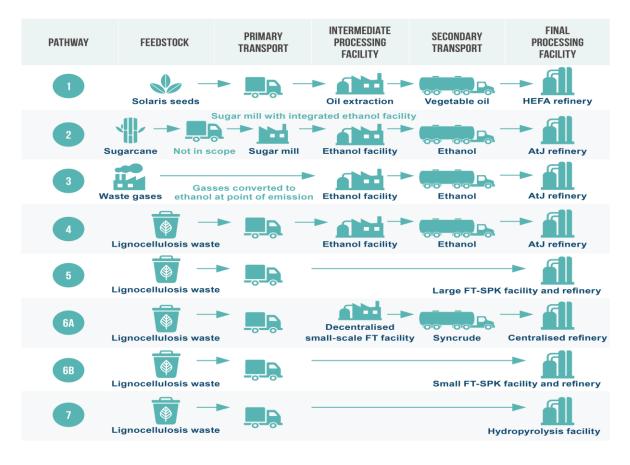
- The SAF roadmap has identified Brassica carinata as one of the potential feedstocks for SAF production in Ethiopia.
- Findings of the pre-feasibility study show the calculated cost of cultivation of seed production in Ethiopia is competitive with similar costs in other regions of the world



Report on SAF production - South Africa

Feedstock source supply chain diagrams for SAF pathways in South Africa

- WWF South Africa supports RSB in developing a techno-economic model of potential SAF pathways in South Africa.
- The report: "Fuel for the future: A blueprint for the production of sustainable aviation fuel in South Africa" finds that development of a new domestic SAF industry could be a pillar of South Africa's low-carbon economy and play an important role in a just energy transition.



Stakeholder meeting and SAF roadmap - South Africa

- RSB hosted a SAF stakeholder meeting to support South African stakeholders in developing the capacity and skills to bolster the local SAF economy, with strong sustainability principles at its core – in partnership with long-term partner WWF South Africa.
- RSB published the SAF roadmap and event outlining key conversations held at the event, outcomes, and the next steps that can be undertaken to make SAF a sustainable reality in the region.

Feedstock source supply chain diagrams for SAF pathways in South Africa



Invasive Alien Plants as sustainable feedstock for SAF – South Africa

- More than 10% of South Africa's land mass is covered by IAPs to some degree and they use up to 6% of the country's fresh water, which can potentially increase up to 16% without eradication measures, with an increase rate of 5-10% every year in land coverage.
- RSB has developed guidance to unlock the significant potential of invasive alien biomass to feed the biofuel and bioenergy markets



SAF trainings – Ethiopia and South Africa

Ethiopia

- Developed and delivered SAF and carbon offset courses for the Ethiopian Airlines Aviation University
- RSB plans to offer SAF courses on online platform for a wider reach - RSB academy

South Africa

- Pilot of Sustainability certification approach on Invasive Alien Plants, and
- Pilot programme on Power to X course



Section 3

RSB Certification Approach



Regional and Regulatory Schemes

Core Standard

RSB Global Fuels

Fuels Certification for Voluntary Markets

Core Standard

RSB Global Advanced Products

Advanced products certification for voluntary markets

Regulatory Adaptation

RSB EU RED

Regulatory fuels selling in the EU market according to the EU Commission

Regulatory Adaptation

RSB ICAO CORSIA

For sustainable aviation fuel (SAF) according to ICAO CORSIA

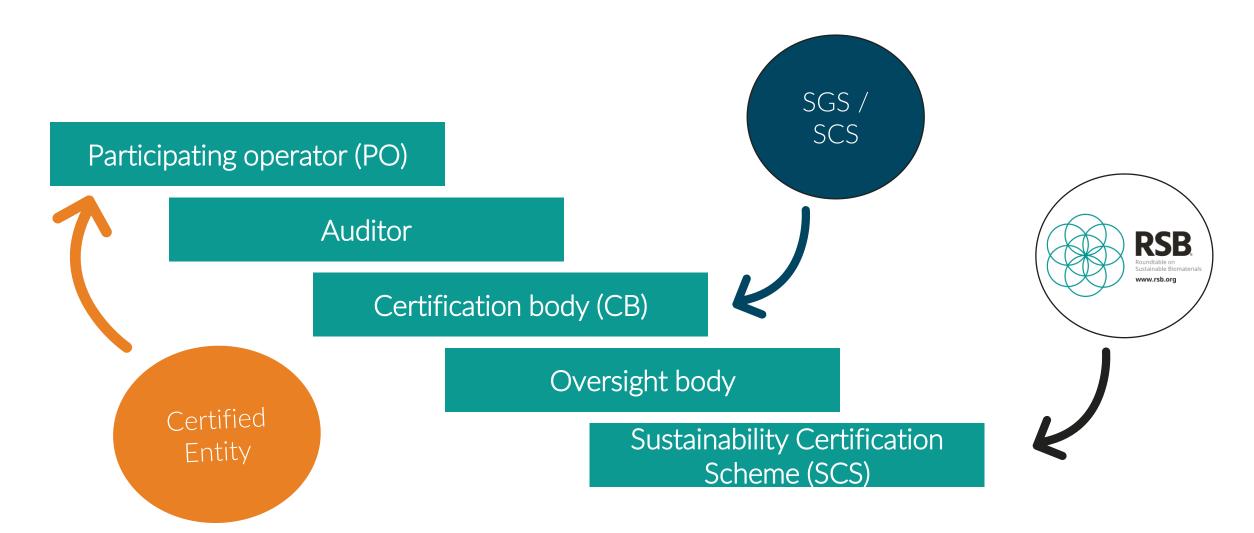
Regulatory Adaptation

JAPAN FIT

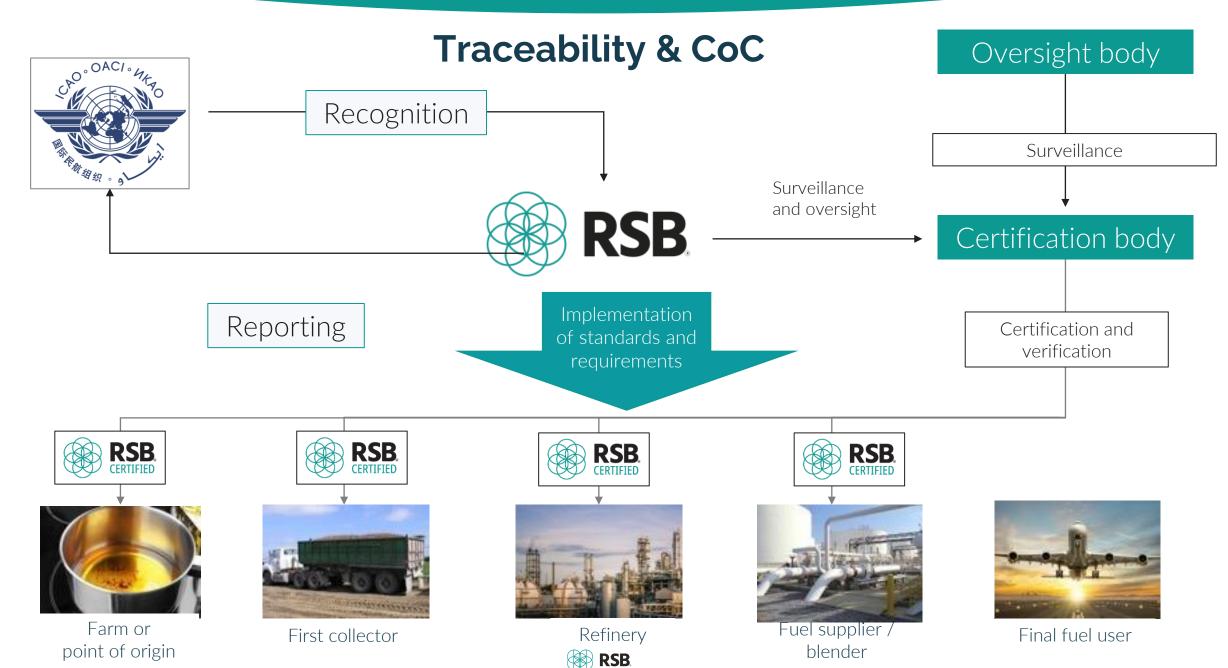
For biomass delivered to Japanese power plants according to Japanese Govt



The RSB Certification ecosystem







Steps to gain RSB Certification

Step 1: Scope

- Define your certification scope
- Select the certification scheme/s you want to apply for (RSB Global and/or EU RED and/or CORSIA)

Step 2: Application

- Online application
- Select an auditor (certification body) and agree on an audit date
- 2 weeks public comment period

Step 3: Prepare your audit

- Compile the screening tool and risk assessment
- Conduct a selfevaluation against applicable requirements
- Develop your
 Environmental and
 Social Management
 Plan (ESMP) to address
 applicable RSB
 requirements
- Develop Chain of Custody procedure
- Perform GHG calculation

Step 4: Audit

- Desk-based preparation
- On-site evaluation
- Identification of nonconformities, if any
- Time provided to address nonconformities
- RSB certificate issues
- Public audit summary published on RSB website



Ongoing

Annual surveillance audits (physical or desktop based on your risk class) Section 4

Sustainability requirements



SAF Sustainability Criteria

GHG • SAF should generate lower carbon emissions on a life cycle basis than its fossil alternative. Carbon Stock • SAF should not be made from biomass obtained from land with high carbon stock. Water • Production of CORSIA SAF should maintain or enhance water quality and availability Soil • Production of CORSIA SAFs should maintain or enhance soil health. Air • Production of CORSIA SAF should minimize negative effects on air quality Conservation • Production of CORSIA SAF should maintain biodiversity, conservation value and ecosystem services.

CORSIA and Sustainability requirements

Additional ICAO CORSIA Requirements

Source: CORSIA Sustainability Criteria for CORSIA Eligible Fuels



SUSTAINABILITY REQUIREMENTS

CORSIA Sustainability Criteria

Waste	and	
Chemi	icals	

• Production of CORSIA SAF should promote responsible management of waste and use of chemicals.

Human Rights

• Production of CORSIA SAF should respect human and labour rights.

Land use rights

• Production of CORSIA SAF should respect land rights and land use rights including indigenous and/or customary rights.

Water use rights

• Production of CORSIA SAF should respect prior formal or customary water use rights.

Local Development

• Production of CORSIA SAF should contribute to social and economic develop.

Food Security

• Production of CORSIA SAF should promote food security in food insecure regions.

Source: CORSIA Sustainability Criteria for CORSIA Eligible Fuels



Section 5

Traceability and Chain of Custody



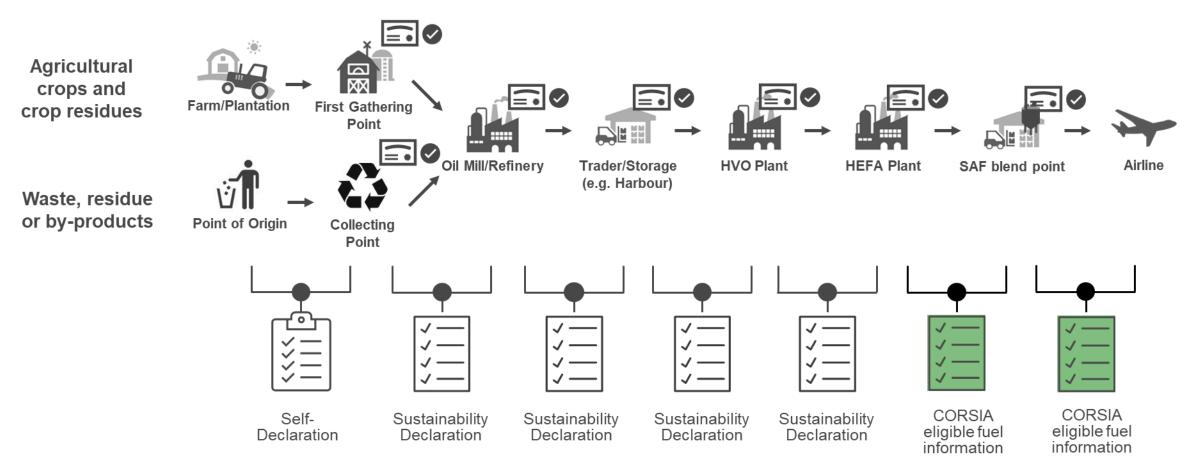
Chain of Custody system

The function of the Chain of Custody model is to:

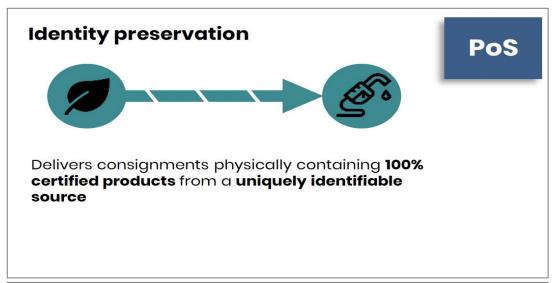
- Identify origin of a final product or product component
- Ensure a custodial sequence along the supply chain
- Ensure that volumes of certified material sold (outputs) match or do not exceed volumes of certified material produced or bought (inputs)
- Link sustainability practices at a certain stage in the value chain with a product claim at the end of the chain
- Protect and monitor the integrity of claims » Improve transparency in the supply chain
- Ensure systems are in place for integrity of entities or participating operators
- Compile life cycle analysis (LCA) data along the chain (e.g. GHG data)

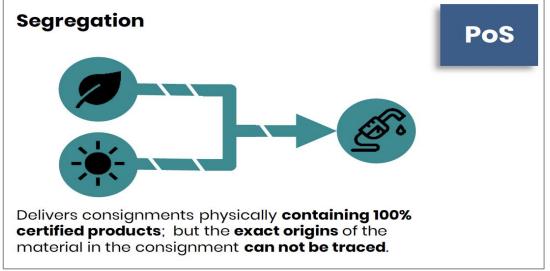
Flow of sustainability information

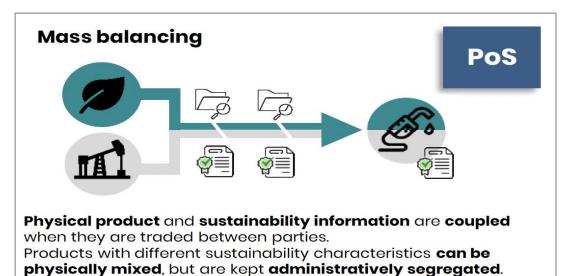
Sustainability information (e.g., on GHG emissions) is forwarded through the supply chain step-by-step.

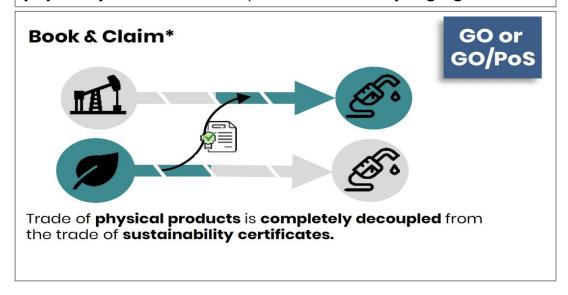


Models and definition











RSB

Proof of Sustainability (PoS)

- With each shipment along the supply chain an RSB Operator should include a proof of sustainability (PoS) document.
- The proof of sustainability (PoS) shall include the product information described in Annex I of the RSB chains of custody standard.
- The operator may use regular sales documentation (invoices, bill of lading etc.) instead of the PoS provided it includes the product information described in Annex I.
- RSB provides a template for the PoS that may be used by the operator.

	Proof of Sustainability	(PoS)			
Batch ID Number:	(to be included by the certified operator, shou	old be traced in their internal system)	RSB Particular Control Structure		
Number of the Delivery Note	(invoice#, or Bill of le	oading etc)	· mentacij		
Date of Shipment:	ment: (date the material is dispatched)				
Date of Issuance:	date that the PoS	is issued			
Supplier (certified operator who issues the PoS)					
Name: Address:					
Supplier - site from which the product is forwarded					
Name: Address:					
Customer					
Name:		Address:			
(of recipient, receiving	the certified product)				



Questions



