



SUSTAINABLE AVIATION BUYERS ALLIANCE

# **Climate Ambition Takes Flight: Companies and Airlines at the Forefront of Sustainable Aviation Fuels**



**COP27**  
SHARM EL-SHEIKH  
EGYPT 2022



# Kim Carnahan

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and  
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Fuels, ENGIE Impact

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# SABA Members

## Customers



GLOBAL  
BUSINESS  
TRAVEL



BAIN & COMPANY

BANK OF AMERICA



BCG



BOOM

Deloitte.

Disney

JPMORGAN CHASE & CO.

McKinsey  
& Company

Meta

Microsoft

NETFLIX

okta



SHEIN

workday

## Aviators

Alaska  
AIRLINES

amazon

BOEING



GE Aviation

jetBlue

UNITED  
AIRLINES



SABA



# SABA's mission is to accelerate the path to net zero aviation by pursuing 3 key objectives



## Expand SAF Investment Opportunity

- Establish a credible, transparent SAF certificate system
- Aggregate member demand and run collective procurement
- Develop a SAF Sustainability Framework to guide members to high quality SAF



## Provide Education & Policy Support

- Educate members and the broader public about SAF
- Support members as they navigate the SAF market
- Help members understand and advocate for appropriate SAF policy



## Accelerate Technology Innovation

- Assess emerging SAF technologies
- Work with like-minded organizations to help address barriers to scale and cost reduction
- Catalyze new technology demonstration



# Our focus in 2022: Expanding the SAF investment opportunity

5



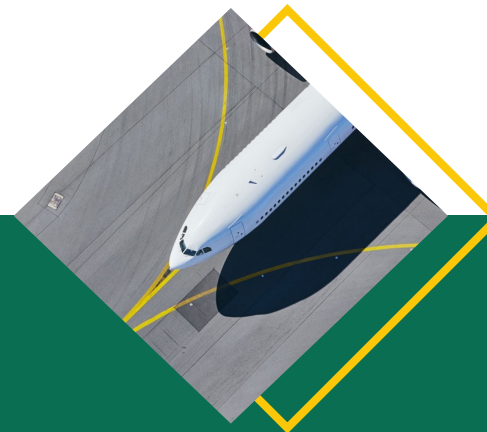
## SUSTAINABILITY FRAMEWORK

Supporting buyers to invest in high integrity SAF and prevent unintended environmental consequences



## SAF CERTIFICATE REGISTRY

A SAF certificate registry that allows buyers to make transparent emission reduction claims related to their SAF investment



## ACCOUNTING GUIDANCE

In collaboration with WEF CST, guidance on how to measure and report aviation emissions involving SAF



## DEMAND AGGREGATION

Competitive, collective procurement to standardize and simplify the procurement process for companies



# Key outcomes to date

6

- Collaborated with standard-setting organization RSB on their SAF book-and-claim standard
- Design and in the process of building a universal SAF certificate registry, to be ready for piloting by early 2023
- Collaborated on SAF certificate accounting guidance with WEF Clean Skies for Tomorrow, published in October
- Adopted SABA's SAF Sustainability Framework and will publicly release it in December
- Aggregated member demand and ran the first-ever collective SAF certificate procurement
- Expanded access to the benefits of SABA through new membership types and discounts for some companies





# Istvan Bart

Director, Global Climate,  
EDF (SABA Team)



# Laura Hutchinson

Manager, Climate-Aligned  
Industries  
RMI (SABA Team)

# SAFc Registry



# SABA is building a SAF Certificate Registry with support of



## The SAFc registry will:

1

Create a standardized framework for registering, trading and retiring SAF certificates (consistency)

2

Provide detailed data on sustainability attributes of each batch of fuel, e.g. emissions abatement, feedstock, certifications, etc. (sustainability)

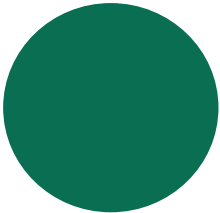


3

Ensure that claims are only made once for every ton of SAF (no double counting)

4

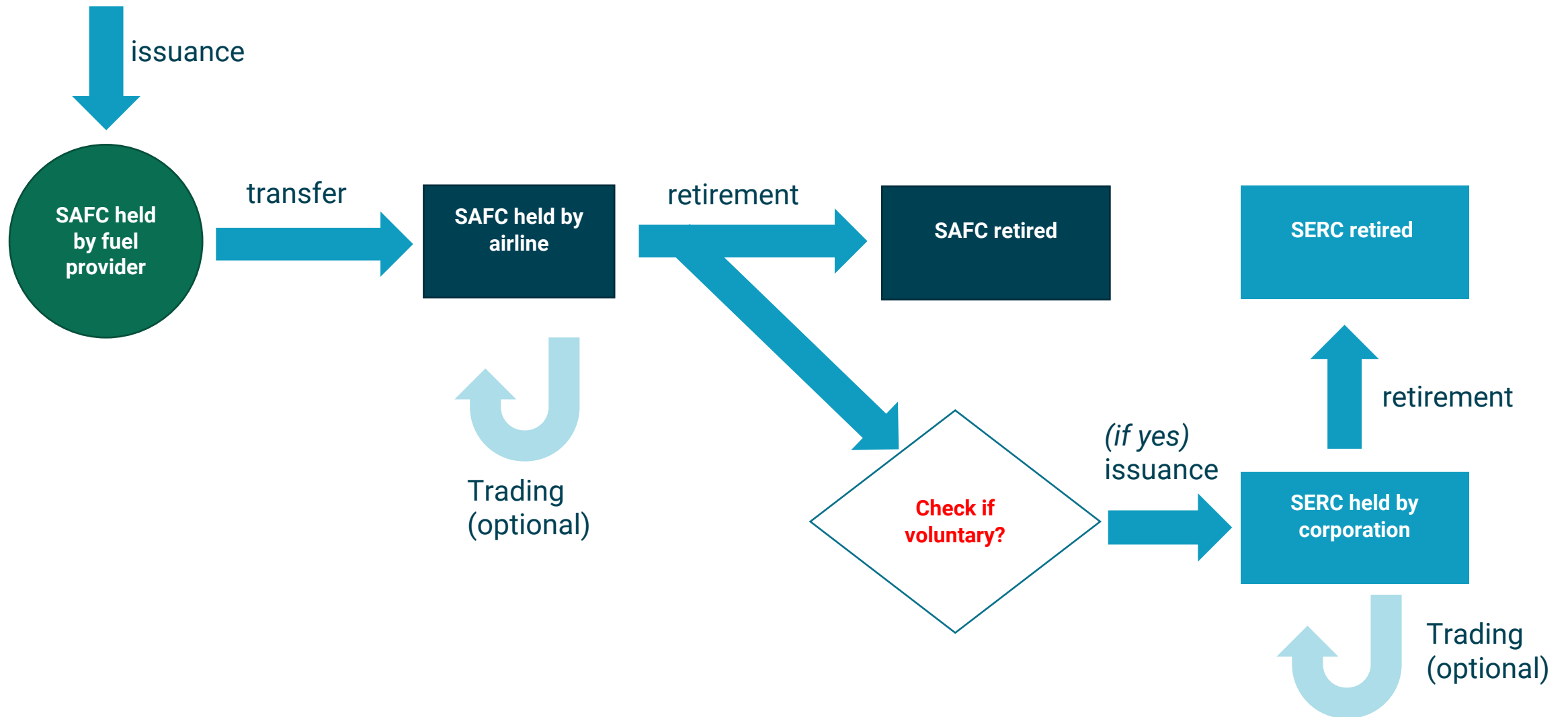
Provide a transparent ledger to support climate disclosure of SAF claims by air transport providers and corporations (transparency)

# SAFc Registry Basics

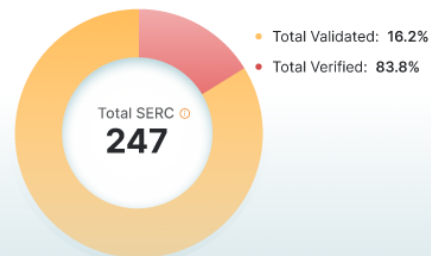
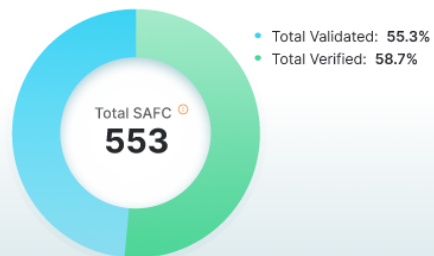
Users		Units	Actions
	<b>Fuel Providers</b>	<b>SAFC</b> Sustainable Aviation Fuel Certificate	✓ Issue ✓ Transfer ✓ Retire
	<b>Air Transport Providers</b> Airlines and carriers	<b>SERC</b> SAF End-user Reduction Claim	
	<b>Corporate consumers</b> passenger travel and freight		

# Issuing, trading and retiring in the SAFC registry

*(main sequence)*



## Holdings



All filters

Unit type ▾










Audit status ▾

## All SAFC and SERC

Issue

Transfer

Retire

Unit	Total units	Tonnes CO <sub>2</sub> e abated	Expiry date	Associated unit	Audit status
 SERC	15	45	31-Dec-24	✓ <u>Yes</u>	VAL
 SAFC	25	75	31-Dec-24	✓ <u>Yes</u>	VAL
 SERC	25	75	31-Dec-24	✓ <u>Yes</u>	VAL
 SAFC	105	315	31-Dec-24	✗ No	VAL
 SERC	75	225	31-Dec-24	✓ <u>Yes</u>	VAL
 SAFC	17	51	31-Dec-24	✗ No	VER
 SERC	150	450	31-Dec-24	✓ <u>Yes</u>	VER
 SAFC	57	171	31-Dec-24	✓ <u>Yes</u>	VER
 SERC	57	171	31-Dec-24	✓ <u>Yes</u>	VER

## Account holdings



[Back](#) SAFC

# Unit details

Total SAFC units  
**15 tons**  
45 tons CO<sub>2</sub>e abated

**HEFA**Fuel conversion  
process**CORSIA**

Certification

[Transfer](#)[Retire](#)Country code  **US**Expiry date **31-Dec-24**SERC Issued  **Yes**Audit status **VAL**LCA GHG reduction **22 gCO<sub>2</sub>e/MJ**Feedstock **Tallow**POS Document [POS\\_doc.pdf](#) 

## Facility



## Location



# Retirement

## Public certificate retirement table

Retirement benefactor	Year	Unit type	No. of units retired	Tonnes CO <sub>2</sub> e abated	Certification document
 Airline 1	2023	SAFC	15	45	<a href="#">CERT000145</a>
Company A	2023	SERC	15	45	<a href="#">CERT000145</a>
 Airline 2	2023	SAFC	75	263	<a href="#">CERT000256</a>
Company B	2023	SERC	45	158	<a href="#">CERT000256</a>
 Company C	2023	SERC	30	105	<a href="#">CERT000256</a>
Airline 3	2023	SAFC	10	25	<a href="#">CERT000015</a>

## Up Next

**Public consultation process to open by end 2022,  
offer opportunity for detailed feedback**



**Testing by SABA members Q1 2023**



**Registry available for all users in Q3 2023**



# Collective Procurement



# Collective procurement is intended to serve our members and the broader SAF market

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Drastically **simplify the process of buying SAF certificates** for our members, including by vetting the fuel for quality

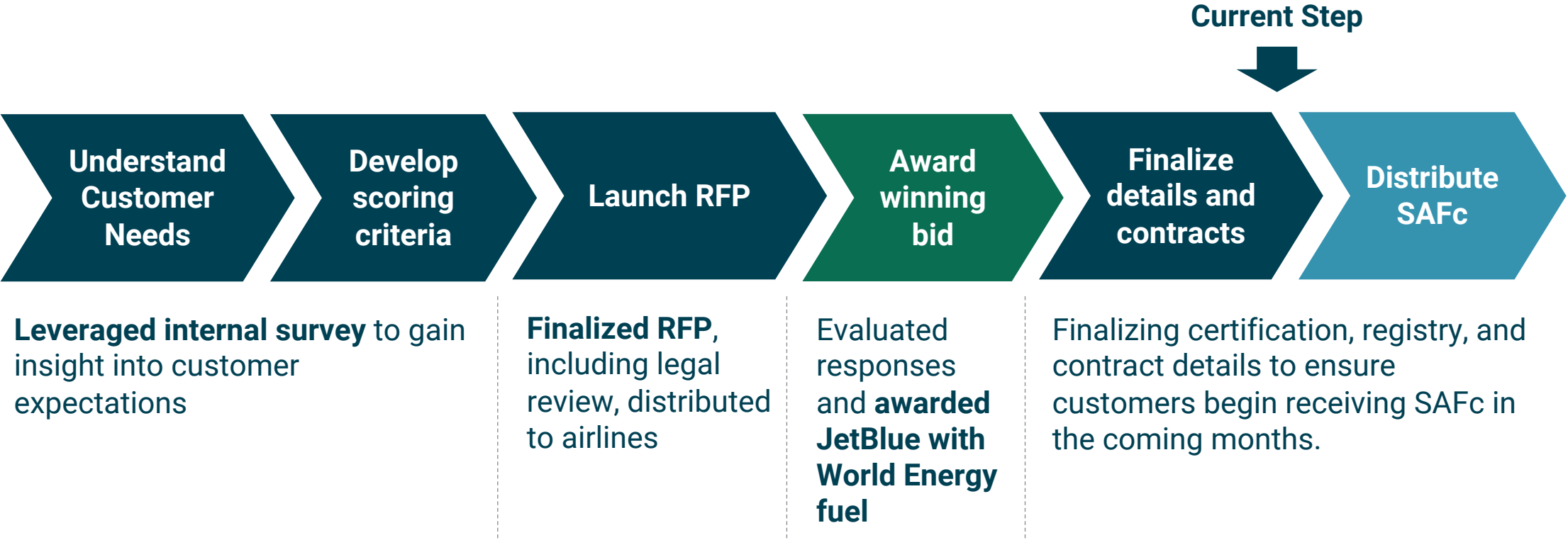


Uncover the gaps in **market functionality** and transparency and **work to address them** together with our partners



Demonstrate growing **demand signal for high quality fuel** in order to help grow the market and eventually lower prices

# Our first-of-kind joint RFP is nearing completion

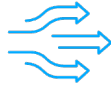


# Lessons learned through this process were invaluable

Learnings	Near-term SAF market is tighter than we anticipated	Sustainability certification status across fuel providers is uneven and, though progressing, less advanced than anticipated	Fuel prices vary widely (\$50-800/ton CO2) but those price differences often say nothing about quality	Methodology to convert gallons of SAF to tons of CO <sub>2</sub> e is not yet fully standardized, leading to 20% price and volume swings	Full SAF chain of custody is complex; not all actors will be equally well-versed on book-and-claim systems
Implications	Suggests a future RFP structure that is multi-year or provides more time between request and fuel deliveries	SABA plays key role in guiding the market toward strong, globally accepted certification schemes	When airlines signed contracts and whether fuel providers are able or willing to claim subsidies drive price difference today	Conversions should be done on a well-to-wake basis, consistent with SBT guidance	Upfront understanding and alignment among all relevant value chain actors will allow for smoother transactions and avoid unnecessary delays



***Our next joint  
procurement will be  
more flexible and  
ambitious***



### **Flexible response pathways**

Targeting fuel providers, but with flexibility to bring innovative partnerships with airlines forward



### **Multi-year structure**

To send a longer-term signal to the market and give greater certainty to fuels providers



### **Market-relevant demand**

Total ask TBD, but aiming for a small-to-medium sized plant's annual capacity



### **Ensuring environmental integrity**

Leveraging SABA's recently finalized Sustainability Framework to ensure environmental objectives are met



### **Lowest possible price**

Exploring potential for volume-based discounts and mechanisms to prevent price swings over multi-year period

*Details are still being developed with input from SABA members.  
Anticipate releasing RFP in Jan '23.*



# Today's Panelists:



**Adam Klauber**

VP Sustainability &  
ESG, World Energy



**Bas Sudmeijer**

Managing Director &  
Partner, BCG



**Mohamed Al  
Ghailani**

META Regional  
Lead for Global  
Sustainability,  
Boeing

***Moderator:*  
Kim Carnahan**





# Join Us!

**If you are interested in becoming a SABA member, email [info@flysaba.org](mailto:info@flysaba.org) or reach out on [flysaba.org](https://flysaba.org)**

**SABA**