SAF Registry

User Manual

Contents

1. About the SAF Registry

The SAF Registry (Registry) is a global, robust, aviation-centric online platform to account for, record, and report emissions reductions associated with the use of Sustainable Aviation Fuel (SAF). The Registry is tailored specifically to meet the needs of the SAF value chain, including fuel producers and suppliers, aircraft operators, and airline customers, while providing highest degrees of transparency. It ensures that environmental benefits of SAF can be accurately tracked within the system, and that they can be claimed by airlines and their customers against voluntary and regulatory decarbonization commitments.

1.1 Key Terminology

Term	Definition
SAF Fuel Unit (SFU)	The working unit of the Registry, corresponding to 1 kg of neat SAF. The Registry enables operations with as little as one hundredth of an SFU (0.01 SFUs, corresponding to 0.01 kg neat SAF).
SAFR ID	A unique identifier generated by the system that represents SFUs with identical properties and transaction history.
Parent ID	The SAFR ID of SFUs before a transfer or redemption
Emissions Reductions Formula	A formula used to calculate the GHG emission reductions associated with SAF use.
Company Role	The type of account that a company can gain access to. The Primary Company Role should be reflective of the actual operations of the company.
Inventory	A series of tables that organize all SFUs currently or previously held by a user.
Logbook	A table with information on all the different actions conducted by a user of a given organization.
Registration	The process of registering SAF batches in the Registry. A fuel producer, fuel supplier, or an aircraft operator can register a SAF batch in the Registry. The sustainability documentation is then surrendered to the Registry and can no longer be passed on.
Point of no return	The final destination of a SAF batch, e.g., an airport's fuel farm. The duty point may also be considered the point of no return, depending on the specific requirements within the jurisdiction. The point of blending is not considered the point of no return unless it is at or after the duty point within the applicable jurisdiction.
Registrant	The party that registers the pertinent SAF batch.
Proof of Sustainability (PoS)	The sustainability documentation issued for a batch of SAF by a certified-entity under a recognized sustainability certification scheme. It confirms the batch's sustainability properties and compliance with recognized sustainability standards.
Proof of Compliance (PoC)	The sustainability documentation issued for a batch of SAF by a certified entity under a recognized sustainability certification scheme. It includes the same data points as the PoS and is only issued in case the PoS is surrendered toward an incentive or regulatory scheme.
Validation	The process of ensuring that a SAF batch registration is valid. Once validated, the system issues SFUs for the corresponding amount of SAF, which can then be held, transferred, or redeemed.
Validator	The party that is responsible for validating SAF batches as they are being registered into the system.
Transfer	A change of ownership of SFUs between fuel producer, fuel supplier, and aircraft operator.

Sender	The party that initiated the transfer of the SFUs.
Recipient	The party that received the transfer of the SFUs.
Redemption	The action of virtual fuel consumption that converts SAF batches into emissions reductions in the Registry. Scope 1 and Scope 3 emissions reductions are generated at the time of redemption. The redemption process cannot be reversed/undone.
Emissions Statement	A document that summarizes the redemption of SFUs with a single SAFR ID and associated allocation of Scope 3 attributes.

1.2 Emissions Reductions Formulas

There are four emissions reduction formulas used in the SAF Registry.

The two first formulas refer to the formulas available in the SAF Accounting & Reporting Methodology.

- **CAF well-to-wake (WTW) emissions factor**: A default value of 3.84kg CO2e/kg fuel should be used for the purpose of this methodology.
- **CAF tank-to-wake (TTW) emissions factor**: For the purpose of this methodology, the ICAO's fuel conversion factor under the CORSIA scheme, equal to 3.16 kg CO2/kg fuel for Jet-A fuel, Jet-A1 fuel, TS-1 fuel, or No. 3 Jet fuel, and 3.10 kg CO2/kg fuel for AvGas or Jet-B fuel, should be used. These values are also aligned with the values used under the EU ETS scheme and the ISO 14083, but in case of any disagreement, the official CORSIA values in force prevail.

The TTW formula is not available for selection during the transfer or redemption process. Instead, it is always shown as a reference in the transfer and redemption screens and can be chosen as a column in the inventory.

IATA WTW (kg of CO_2e)

$$3.84\left[\frac{kgCO_2e}{kg}\right] \times Amount\ of\ Neat\ SAF\ [kg] \times \left(1 - \frac{Total\ LCA_{SAF}\left[\frac{gCO_2e}{MJ}\right]}{89\left[\frac{gCO_2e}{MJ}\right]}\right)$$

IATA TTW (kg of CO_2)

$$3.16\left[\frac{kgCO_2}{kg}\right] \times Amount\ of\ Neat\ SAF\ [kg] \times \left(1 - \frac{Total\ LCA_{SAF}\left[\frac{gCO_2e}{MJ}\right]}{89\left[\frac{gCO_2e}{MJ}\right]}\right)$$

Formula 3 (kg of CO_2e)

$$\frac{Neat\ SAF\ Energy\ Contnet\ [MJ] \times 89\left[\frac{gCO_2e}{MJ}\right] \times LCA_{SAF}\ Reductions\ [\%]}{1000},\ where\ LCA_{SAF}\ Reductions\ [\%] = 1 - \frac{Total\ LCA_{SAF}\left[\frac{gCO_2e}{MJ}\right]}{89\left[\frac{gCO_2e}{MJ}\right]}$$

Formula 4 (kg of CO_2e)

$$\frac{Neat\ SAF\ Energy\ Contnet\ [MJ] \times 94\left[\frac{gCO_2e}{MJ}\right] \times LCA_{SAF}\ Reductions\ [\%]}{1000},\ where\ LCA_{SAF}\ Reductions\ [\%] = 1 - \frac{Total\ LCA_{SAF}\left[\frac{gCO_2e}{MJ}\right]}{94\left[\frac{gCO_2e}{MJ}\right]}$$

2. Onboard and Login

All individuals are required to onboard to the Registry and follow a registration process to become a user, and before being able to access the information and system functionalities of the Registry, as noted in 1. Registration in the SAF Registry Terms and Conditions.

2.1 Onboarding as the First User of a Company

The first user of a company must create a new company account in the Registry. At this time, the user must apply for and give rationale for their application to a primary company role at the time of registration. (More information in 4.1 Company Roles and Functionalities).

Once the first user is onboarded into the Registry, the user will receive an email from SAF Registry and be appointed as the Company Representative. The Company Representative can manage users within their own company. (More information in 4.2.1 Company Representative).)

In specific cases, compliance checks will be conducted for newly created company accounts. The Corporate Compliance team may request further documents in order to provide clearance. In such cases, any of the following documents may be requested:

- Copy of the Certificate of Incorporation (COI) or Certificate of Registration (COR)
- Ownership structure that details the 100% ownership
- A Certificate of Incorporation, Certificate of Registration, or the ownership structure of one or more of entity owners identified in the initial ownership structure;
- A copy of the passport identity page or national identification document of an owner/directors identified in the ownership structure or within the board of directors.

The documents must be translated to English by a certified translator.

2.2 Requesting Access

Access to the Registry can be requested through the IATA Customer Portal. Alternatively, a Registry Admin or the Company Representative can invite a user to the Registry.

2.2.1 Request Access via IATA Customer Portal

1. Log in or register to the IATA Customer Portal.
2. Request access to the SAF Registry on the IATA Customer Portal from the list of available services.
3. If not yet done already at registration in Customer Portal, you will be prompted to “Complete Your Profile” before proceeding to the Registry. If your company does not have an existing account in IATA Customer Portal, follow the steps to create the company.
4. Access to SAF Registry is automatically granted via the Customer Portal, and an email notification is sent. This allows the user to continue the onboarding process.
5. The onboarding process continues in the SAF Registry platform. The onboarding process is completed by an approval from the Registry Admin or your Company Representative. You will receive an email notification following the approval.
    a. If your organization is new to the Registry, follow 2.1 Onboarding as the First User of a Company, and the Registry Admin will grant you access to the Registry
    b. If your organization exists within the Registry, your Company Representative will grant you access to the Registry
6. Enter the SAF Registry via the Customer Portal.

Please allow up to 5 business days for onboarding finalization. If your request is still being processed after this time, please contact us at safregistry@iata.org.

2.2.2 Registry Admin/ Company Representative invites a user

The Registry Admin or your Company Representative can invite users to onboard SAF Registry via the user invitation function on the User Management page, as elaborated in 7.1.2 User Invitation by the Company Representative:

1. Receive email from IATA Customer Portal about the “Invitation to use SAF Registry”.

2. Follow the registration steps on the email.
3. If not yet done already at registration in Customer Portal, you will be prompted to “Complete Your Profile” before proceeding to the Registry. If your company does not have an existing account in IATA Customer Portal, follow the steps to create the company.
4. Request the Registry access and refresh the page – the request is auto-approved instantly.
5. Access the SAF Registry through the Customer Portal.

Note: you can always use the link in the invitation email to be taken directly to the SAF Registry service page within the IATA Customer Portal.

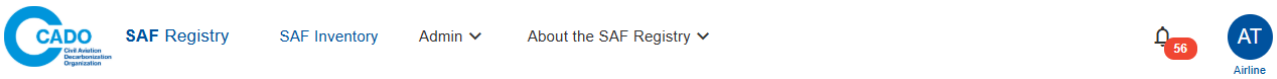
2.3 Login

Once approved by the Registry Admin or the Company Representative, users may log in via the IATA Customer Portal or by accessing the direct link.

3. Navigating the Registry

3.1 Menu Bar

The Registry has a menu on the top of the screen for the user to easily access key items and functionalities.



3.1.1 SAF Inventory

By clicking on inventory, users can view the inventory. For more information on the inventory, please see 5. Managing SFUs – Inventory

3.1.2 Admin

3.1.2.1 Logbook

By clicking on Logbook, a user can view the transaction history for the company they are part of. For more information, please see 7.2 Logbook.Users can view their transaction history which records all actions done on the registry pertaining to the company.

3.1.2.2 User Management (Company Representatives only)

User Management is only available to Company Representatives. By clicking on User Management, the Company Representative will be able to view and manage users within their organization. For more information, please see 7.1 User Management (for Company Representatives only).

3.1.2.3 Download Center

The Download Center stores all zip files containing emissions excerpts and associated emissions statements for 30 days. For more information on the Download Center, please see 6.5.5 Download Center.

3.1.3 About the SAF Registry

By clicking on About the SAF Registry, the user can access the SAF Registry User Manual, System Rules, and the Terms and Conditions.

3.1.4 Notifications

By clicking on the notification icon, the user will be able to view notifications. Users can mark notifications as read by clicking on the eye icon. Notifications are user-specific. Each user within the same organization can read, filter, and delete notifications without affecting other users' views.

The notifications panel shows 20 notifications. To view more notifications, users can choose to "Show all notifications" to see all notifications received in the last 30 days. Notifications older than 30 days are automatically deleted.

3.1.5 Avatar

By clicking on their initials, the user will be able to view their profile, contact the SAF Registry team, and logout.

4. Company Roles and User Permissions

4.1 Company Roles and Functionalities

Each company will have one primary role that most accurately reflects the operations of the company. Below are the key actions that the corresponding company role can take.

	Register SFUs	Hold SFUs	Transfer SFUs	Redeem SFUs	Access emission statements/ excerpts
Fuel Producer (FP)	X	X	X		X
Fuel Supplier (FS)	X	X	X		X
Aircraft Operator (AO)	X	X	X	X	X
Freight Forwarder (FF)					X
End Customer (EC)					X

4.2 User Permissions

There are three main types of users on the Registry. The user permissions are given to a user at the time of onboarding and can be edited later via User Management.

	Manage Users	Register SAF	Transfer SFUs	Redeem SFUs	View Inventory	View Logbook	Access emission statements/ excerpts
Company Representative	X	X	X	X	X	X	X
User		X	X	X	X	X	X
Read-only					X	X	X

4.2.1 Company Representative

The Company Representative is responsible for managing the users within their organization and can access all functionalities available to the organization. Please refer to the functionalities available to each organization in 4.1 Company Roles and Functionalities.

There can be one or more Company Representatives per organization. The first user of a given organization is automatically assigned as the Company Representative. The company representative will approve any new users within the same organization thereafter and assign User Permissions.

4.2.2 User

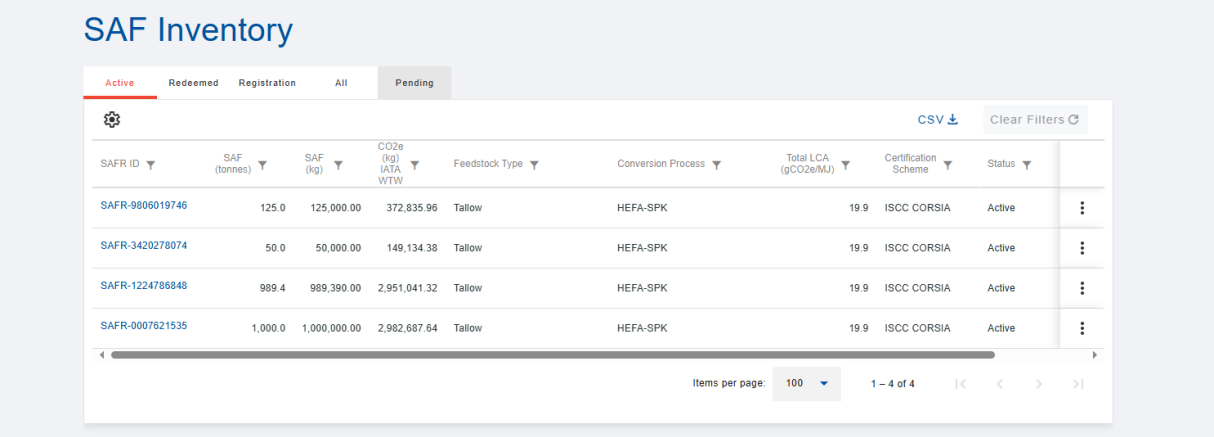
The user can access all functionalities available to the organization, including initiating actions (registration, transfer, and redemption). They cannot access the user management functionality.

4.2.3 Read-only

A Read-only user can view the company's inventory and logs but cannot perform any actions. They may also access previously generated emission statements/excerpts.

5. Managing SFUs – Inventory

The users' inventory consists of different tabs. Each tab displays a different set of specific SFU statuses (see section 5.2 Statuses in the Inventory).



The inventory is customizable, searchable, and filterable. When users enter the system for the first time, they will see a default list of columns on each tab. Users can add, rearrange, or remove columns depending on their preference by clicking on the settings icon in the top left corner of the inventory: ticking/unticking the box next to the column name will add/remove the columns visible in the inventory. Dragging and dropping the line with a column name to another row will change the position of the pertinent column. SAFR ID, Status, and Actions columns cannot be removed, and their position in the inventory is fixed. If the number of columns exceeds the screen width, a horizontal scrollbar becomes available, allowing users to scroll through the page. The columns' settings are preserved when a user logs out of the system.

Within each column, users can sort, filter, and search. The inventory filtering is performed in the system backend, which has an implication on the filtered outcomes that a user can see. For example, the column with SAF tonnes rounds to 1 decimal place, which means that 1211kg SFUs will display as 1.2 tonnes in the inventory screen. If a user searches for values lower or equal to 1.2 tonnes in the pertinent 'SAF tonnes' column, the system will on the backend look for values equal or lower than 1200 kg. As a result, the 1211kg SFU amount will not appear in the filter. Therefore, in this scenario, it is advised to use kg column for exact filtering. A user can clear filters by clicking on the 'Clear Filters' button. The filtering and sorting are not maintained when a user logs out of the system.

Users can download each tab of the inventory in .csv format by clicking the CSV download icon at the top right of the inventory. The downloaded file will display all available columns in the inventory tab without filtering or sorting, regardless of the selection made.

5.1 Tabs in the Inventory

5.1.1 Fuel Producers and Fuel Suppliers

Tab name	Description
Active	SFUs that are owned by the FP/FS and can be transferred.
Redeemed	SFUs that were previously transferred with a Scope 3 allocation specified by the FP/FS.
Registration	A list of SFUs that are being registered by the FP/FS. This includes SFUs that are undergoing the validation process.
All	A summary of SFUs that currently are or previously were in the FP/FS's inventory except for those in the 'pending' tab.
Pending	SFUs in a transient stage, for which a transfer has been initiated, shown with a 'transfer pending' status. It remains transfer pending until the sender cancels, the recipient declines/accepts, or the transfer expires after 14 days.

5.1.2 Aircraft Operators

Tab name	Description
Active	SFUs that are owned by the FP/FS and can be transferred or redeemed.
Redeemed	SFUs that were redeemed by the AO.
Registration	A list of SFUs that are being registered by the AO. This includes SFUs that are undergoing the validation process.
All	A summary of SFUs that currently are or previously were in the FP/FS's inventory except for those in the 'pending' tab.
Pending	SFUs in a transient stage, for which a transfer has been initiated, shown with a 'transfer pending' status. It remains transfer pending until the sender cancels, the recipient declines/accepts, or the transfer expires after 14 days.

5.1.3 Freight Forwarders and End Customers

Tab name	Description
Redeemed	SFUs that were redeemed with scope 3 allocated to the FF/EC in question.

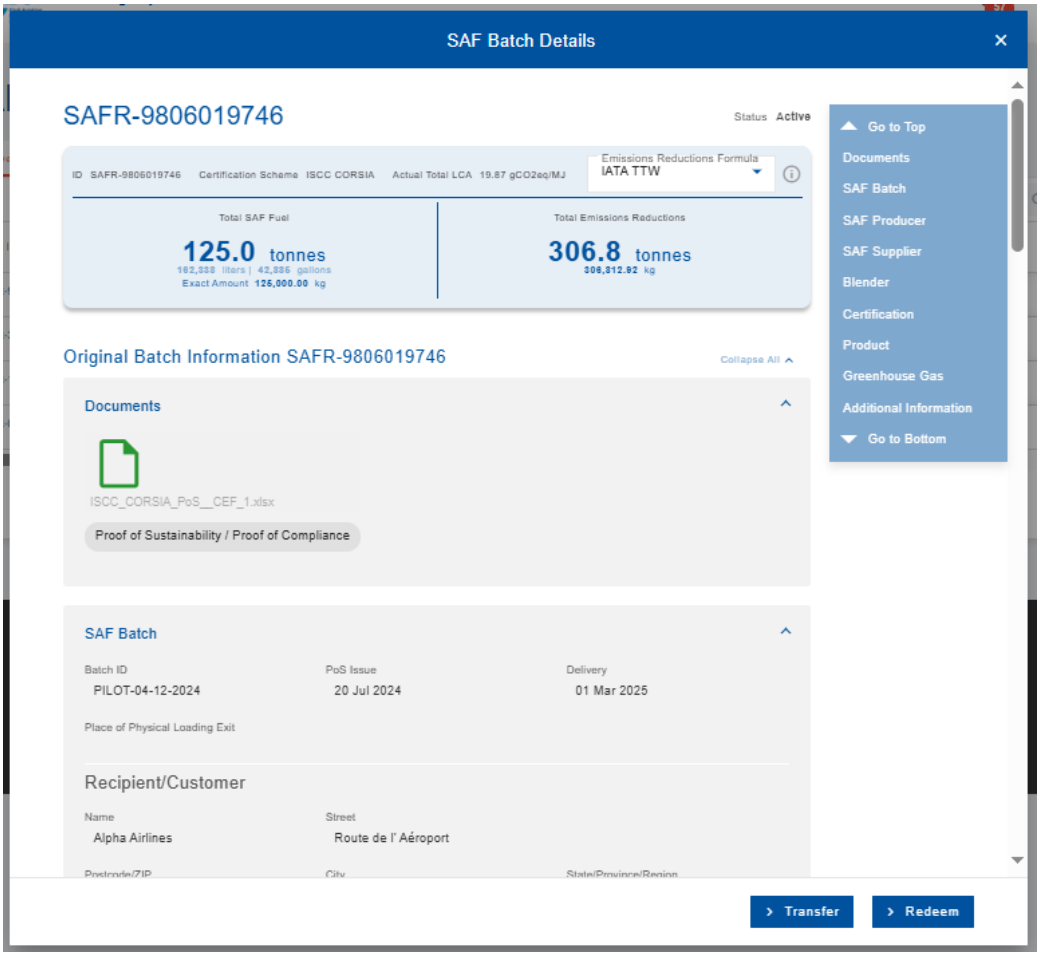
5.2 Statuses in the Inventory

Tab name	Status	Description
Registration	Registration Draft	When a registrant started populating the data fields and saved progress during the registration process. The draft can be edited, deleted, or completed later.
	Validation pending	When a registrant completed a SAF batch registration, it will have the status validation pending until a validator approves or rejects the registration.
	Validation in progress	When a validator starts the validation process.
	Information required	When a validator requires additional information about the SAF batch to be able to approve the registration.
	Validation declined	When a validator has rejected the SAF batch registration.
	On hold	When a SAF batch is registered less than 14 days after it reached the point of no return, it cannot be transacted. Therefore, it is put on hold until 14 days have passed, after which it becomes active.
Active	Active	When a validator has accepted the SAF batch registration and the SFUs become active in the registrant's inventory.
	Transfer Draft	An SFU owner starts the transfer process which they save and close without the completion of the transfer.
	Redemption Draft	An aircraft operator starts the redemption process which they save and close without the completion of the redemption.

Pending	Transfer pending	When an SFU owner has transferred the SFUs to a recipient who has not yet accepted the transfer.
Redeemed	Redeemed	When an aircraft operator has redeemed the SFUs.
All	Frozen	When a validator suspects SFUs to be invalid.
	Archived	When the SFUs were transferred or redeemed and a new SAFR ID is created, the transferred or redeemed units (called Parent ID) are archived
	All statuses in Registration, Active and Redeemed tab	

5.3 Viewing SFU Attributes

To view the SFU attributes, a user can click on a SAFR ID hyperlink of the pertinent SFU in either Active, Registration, Redeemed or All tab.



To view the SFU attributes, a user can click on a SAFR ID hyperlink of the pertinent SFU in either Active, Registration, Redeemed, or All tab. This will open an overview window. The blue header on top of the page summarizes the information about the current SFU, including the SAFR ID, SFU amount, emissions reductions, etc. The bottom part of the page displays information provided during the registration of the pertinent SAF into the system including the original SAFR ID.

6. Actions

6.1 Registering SAF

A Fuel Producer, Fuel Supplier, and Aircraft Operator can register SAF upon meeting two conditions; 1) the registrant is certified under a recognized scheme or can prove ownership of the SAF batch and/or its environmental attributes and 2) the SAF batch reached its final destination (point of no return); has been introduced into an airport's hydrant system, fuel farm, or passed a duty point.

Only Fuel Producers or Fuel Suppliers certified under a recognized scheme can generate and register the PoS of the SAF batch that belongs to them in the Registry. The validator will verify the registrant's eligibility through public registries of certification bodies or by requesting the certification document from the registrant.

Aircraft Operators can register a SAF batch without needing certification themselves. However, their PoS provider must be certified, and the PoS should list the aircraft operator as a recipient. Additionally, the aircraft operator should provide an invoice or proof of ownership of the batch along with the PoS.

The proof of delivery or PoS/PoC should verify that the SAF batch has reached the point of no return.

A user can start the registration process by clicking the 'Start Registration' button, which is available across all inventory tabs. The process has five main steps: Documentation Upload, SAF Batch Information, Additional Information, Review, and Confirmation.

A user can move between the steps using the Previous/Next buttons. The Next button becomes clickable only when all the mandatory information in the current step has been filled out. To discard the registration process, a user should click on the 'Discard' button. To save the registration process as a draft, which will be available in the Registration tab of the inventory, the user should click on the 'Save' button and then close the window via x in the top right corner.

The user is responsible for reviewing and inputting all required information at the registration, to ensure accuracy and use under regulatory schemes. All submitted information must be supported by documentation so it can be validated by the validator.

6.1.1 Upload Documentation

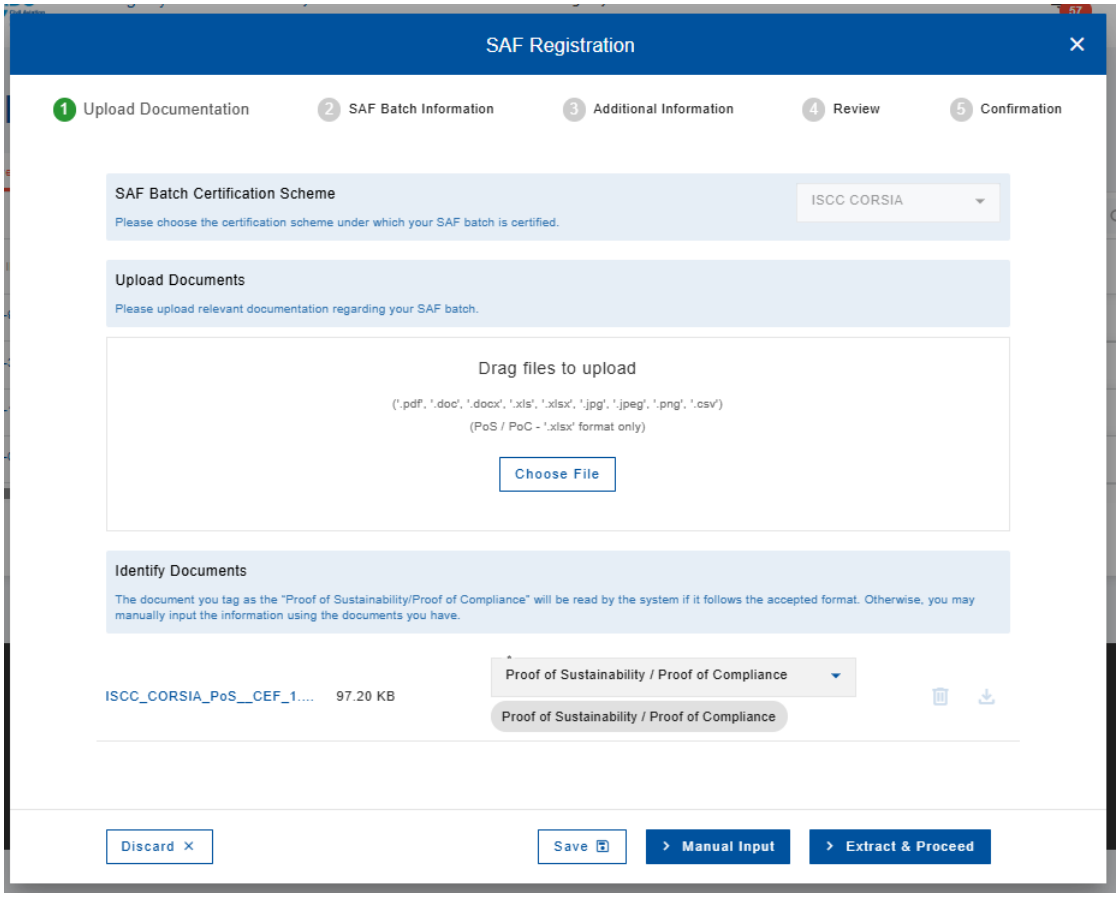
To begin the documentation upload step, the first step of the registration process, the registrant must choose in a drop-down list the certification scheme under which their SAF batch was certified. Then, the document upload becomes available.

The documents required to register a SAF batch are:

- Proof of Sustainability/ Proof of Compliance
- Supplementary Documentation (if applicable)

Other documentation that can be used as supporting documentation includes but is not limited to:

- Proof of Delivery
- Proof of Blending
- Product Transfer Document
- Product Transfer Agreement



Following the upload, the registrant must label the documents accordingly. Note that the PoS/PoC tag can only be used once. After the registered volumes successfully undergo validation, the sustainability documentation are surrendered to the system and cannot be passed on.

In the next steps of the registration process, the registrant can either parse the accepted PoS/PoC formats or manually input the required fields. By clicking “Extract & Proceed”, the system reads the PoS/PoC and automatically inputs fields according to the chosen certification scheme. By choosing “Manual Input”, the parsing step is skipped.

To parse the PoS/PoC, the user must upload the document in xlx or xlxs. For parsing purposes, the accepted certification schemes, **provided they are in the ISCC and RSB template format**, are listed below. Please see Annex I to view the templates eligible for parsing.

1. ISCC CORSIA*
2. RSB ICAO CORSIA
3. ISCC EU
4. RSB EU RED
5. ISCC PLUS
6. RSB Global

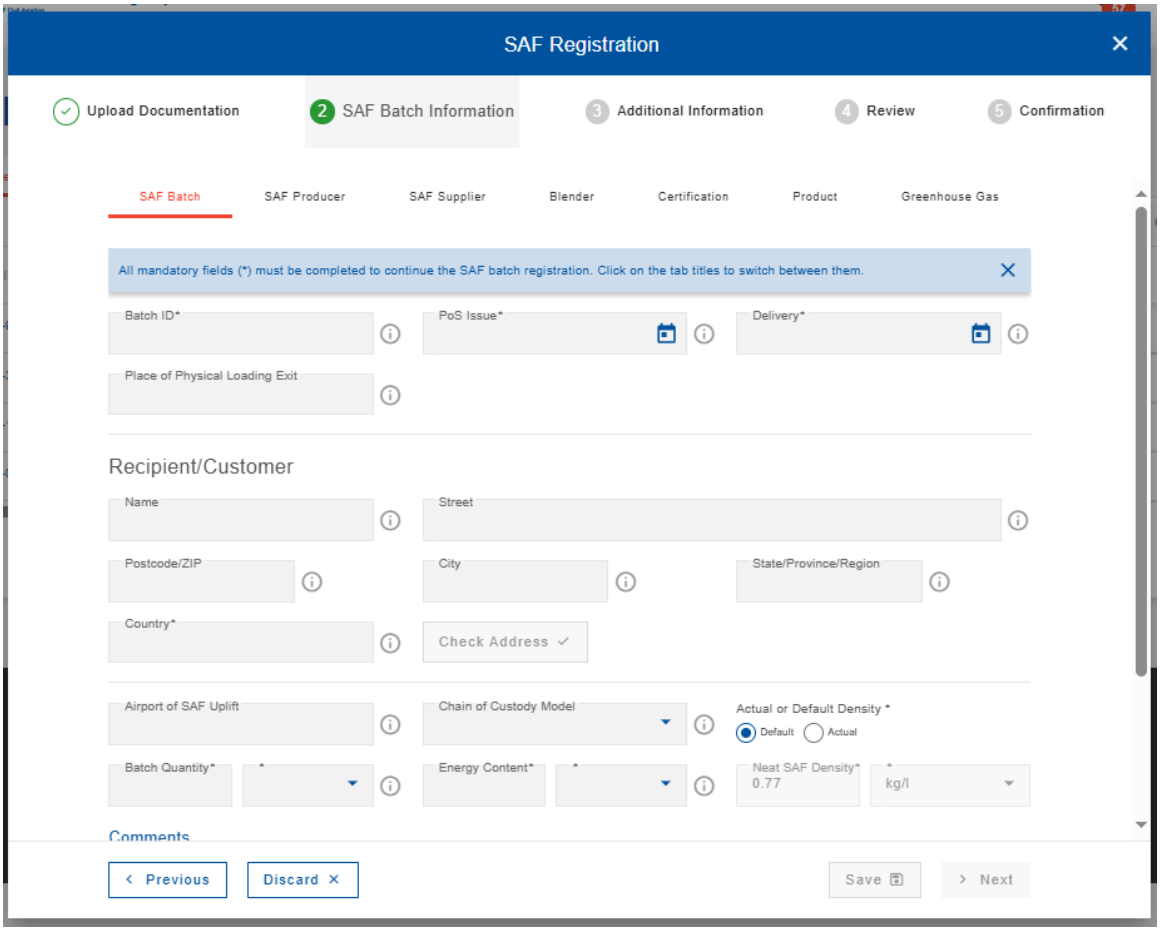
* For ISCC CORSIA, supplementary documentation is needed to constitute full documentation for the airline to claim the use of SAF under CORSIA.

6.1.2 SAF Batch Information

The Registry mandates certain fields according to different PoS/PoC documentation templates. Mandatory information is listed with a * and the user cannot register a SAF Batch without filling in all mandatory information.

Many input fields are dropdown menus, allowing users to select from a number of options. If the user does not find the appropriate value in the dropdown menu, they may select “other’ and manually input a value in the “other” field next to the original dropdown.

The system's ‘check address’ feature allows users to check full addresses. It takes a user's input and suggests addresses.



6.1.2.1 SAF Batch

The SAF Batch tab includes fields related to the qualities of the physical SAF batch. Data fields for this tab include the following:

- **Batch ID**: The unique batch ID of the PoS/PoC. Also called the Unique batch ID, Unique Sustainability Declaration (SD) number or unique PoS number.
- **PoS Issue Date**: The date the PoS (or SD) was issued.
- **Delivery Date**: The date the SAF batch was delivered to **a point of no return**.
- **Physical Loading Exit Date** (unique to RSB): The date the SAF was sent from the place of loading to the recipient/customer. It may be the same date as the delivery date.

- **Place of Physical Loading Exit**: The place the SAF was loaded for sending to the recipient.
- **Recipient/Customer Name**
- **Recipient/Customer Address**
- **Airport of SAF Uplift**: The SAF batch was uplifted. When manually inputting this field, users can search by IATA code or the airport name.
- **Chain of Custody Model**
- **Batch Quantity**: The quantity of the neat fuel. If the amount is registered in an imperial metric (i.e., liters, gallons), the system will convert to kg and round down to the nearest 0.01 kg.
- **Energy Content**: The energy content of the batch. If the energy content is inputted in MJ, the system will recalculate and display the value per unit of measure of the registered amount of SAF (kg, liters, gallons, etc.) from the point of registration review.

6.1.2.3 SAF Producer

The SAF Producer tab includes fields related to the company that produced the SAF. Data fields for this tab include the following:

- **Producer Company Name**
- **Producer Address**
- **Producer's PoS Batch ID:** The Unique Batch ID (aka PoS number/SD number) of the original batch, which is determined by the SAF producer.
- **Producer PoS Issue Date**
- **Production**
- **Original SAF Batch Quantity**: The amount of the original batch produced by the SAF producer. This value can be different from the registered amount in the SAF Batch tab.
- **SAF Production Date**
- **Acquisition Date**: The date the recipient/customer purchased the neat SAF

6.1.2.4 SAF Supplier

The SAF Supplier tab includes fields related to the company supplying the SAF on the PoS/PoC. Data fields for this tab include the following:

- **Supplier Company Name**
- **Supplier Company Address**

6.1.2.5 Blender

The Blender tab includes fields related to the company supplying the SAF on the PoS/PoC. Data fields for this tab include the following:

- **Blending Address**

- **Blending Date**
- **Mass Received by Blender**: the mass of neat SAF that was received by the blender
- **Type of Fuel**
- **Blend Ratio [%]**
- **Intermediate Purchaser Name**
- **Intermediate Purchaser Address**
- **Shipping Party**: the name of the party that shipped the neat SAF to the fuel blender
- **Shipping Party Address:**
- **Blender Company Name**
- **Blender Company Address**

6.1.2.6 Certification

- **Certification Body**
- **Fuel Certification Scheme**
- **Certification Number**

6.1.2.7 Product

- **Feedstock Type**
- **Additional Feedstock Information**
- **Waste and Residues:**
- **Feedstock Conversion Process**
- **Country of Feedstock Origin**

6.1.2.8 Greenhouse Gas

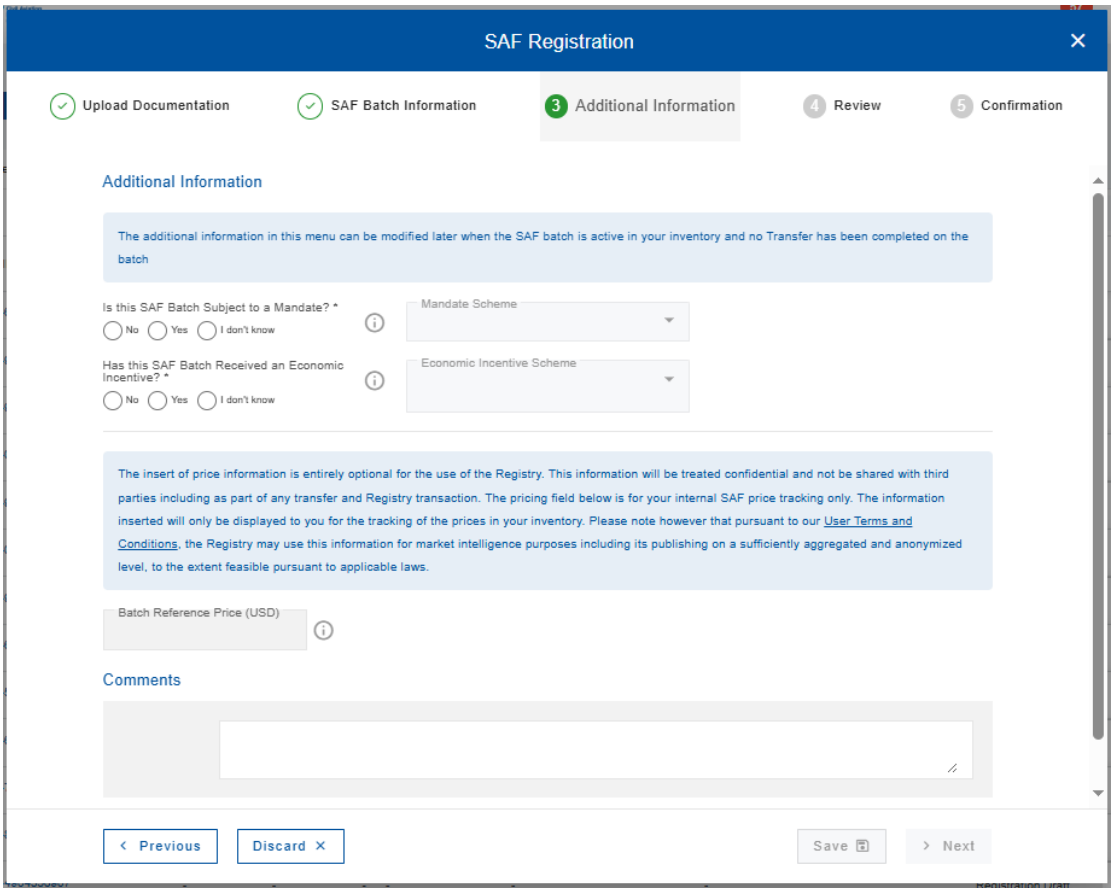
- **Default or Actual Values**: whether the LCA and emissions factors for ILUC use default or actual values. Other fields showing either Actual or Default dynamically change depending on the selection made
- (**Default/Actual) Core LCA Value**
- I**nduced Land Use Change (ILUC) Emissions**
- **(Default/Actual) Total LCA Value**: the sum of the default/actual core LCA value and ILUC emissions
- **Lower Heating Value**: the net calorific value. If the lower heating value is not on the documentation, the user may use default values according to the ISO 14083:2023 Greenhouse gases standard of 43.2.

- **(Actual or Default) Neat SAF Density**: in the absence of the actual value, users can indicate the default value of 0.77 kg/l.

6.2.3 Additional Information

The additional information step includes supplementary information about the SAF batch.

- **Mandate**
- **Economic Incentive**
- **Reference Price**: the price of the batch in USD. The price will be shown per tonne in the registrant's inventory and will not be shared with other users of the system, including recipients of the corresponding SFUs.



The additional information page can be edited before a transfer/redemption is initiated. If a transfer is rejected or cancelled, the SFUs are returned to the original owner, and the additional information tab cannot be edited. Editing can be triggered by clicking on the three-dot action button menu of the SFUs in the inventory and selecting Add Additional Information. Alternatively, the user can click on the SAFR ID hyperlink, which will open the details of the SFUs with the option to edit the additional information section, if applicable.

6.2.4 Register Similar Feature

The registrant of the SFUs can choose to "Register Similar" by clicking on the three-dot action button menu next to any SFUs registered in the Active and Registration tab of their inventory. This feature enables users to register a new SAF batch that has similar properties to a SAF batch that was previously registered by the same user. Upon clicking "Register Similar," the user would be redirected to the registration dialogue, with most fields pre-populated with the same information as the original SFU. The user can then proceed to

complete the registration process by adding the necessary documentation and completing the necessary information.

6.3 Validation

A designated validator will validate the registered SAF batch. The validation process ensures that all registered information is sound, supported by documentation, and aims to avoid double-issuance.

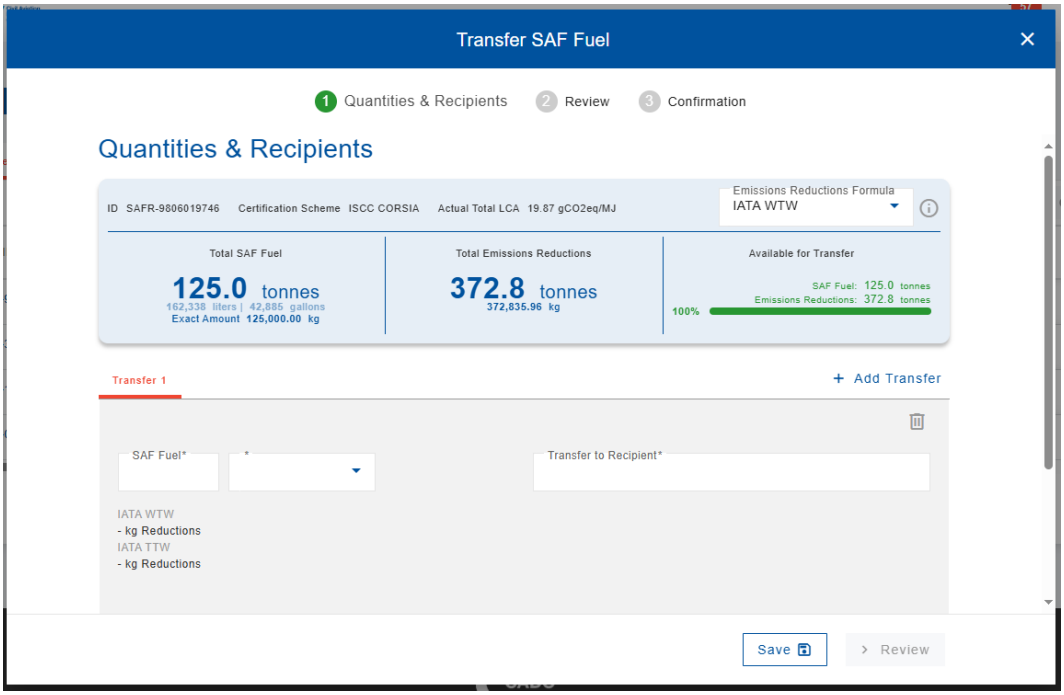
Once SFUs are approved, they become ‘active’ in the registrant’s inventory and can be transacted.

If the validator does not have the necessary information to validate a SAF batch, it will be returned to the registrant as ‘information required’. Once the volumes are sent back to the registrant, the registrant can ‘edit information,’ taking the user to edit or add supporting documents for information that the validator ‘flagged’ as inaccurate.

If the validator is ultimately unable to successfully complete the validation process, the registration of SFUs will be ‘declined’. Once a validation is ‘declined’, the PoS can be used again by the registrant.

6.4 Transfer

Users holding SFUs can choose to transfer the entirety or part of it by specifying the transfer quantity and recipient. Within the same (series of) transfer(s), originating from a single group of SFUs (SAFR ID), users can indicate multiple Scope 1 and Scope 3 recipients.



6.4.1 Transfers among Fuel Producers, Fuel Suppliers, and Aircraft Operators

SFUs can be transferred between FP, FS, and AO companies. As a reminder, transfers generally encompass the entirety of SFUs’ benefit, including both the Scope 1 and Scope 3 environmental attributes.

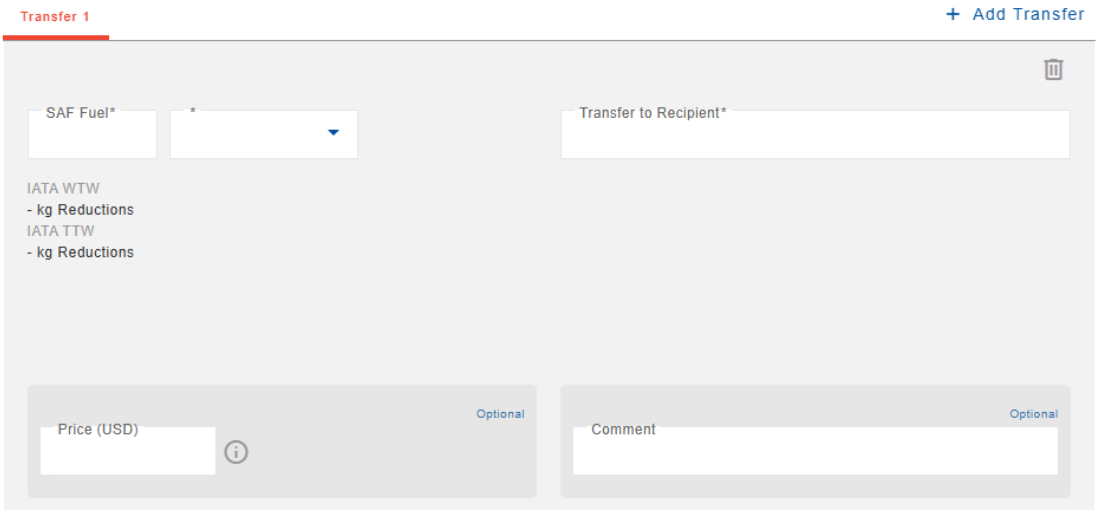
To initiate a transfer, a user should select SFUs to transfer by either clicking the SAFR ID and choosing the transfer option from the SFU overview page or clicking on the three-dot action button menu and selecting the transfer option. This action opens the transfer screen.

6.4.1.1 Specifying Transfer Details

The first step of the transfer process involves defining the transfer quantities and recipients. The transfer page header provides key information about the selected SFUs, such as the LCA value, amount of SFUs, corresponding emissions reductions (depending on the formula), and the amount available for transfer that is updated automatically throughout the process. Only one formula, selected in the top right corner, can be used within the (series of) transfer(s), and is for indicative purposes only. The available formulas in the drop-down menu on the top right corner are IATA WTW, Formula 3, and Formula 4. Ultimately, the formula is finalized at the time of redemption by the AO.

To specify the transfer amount, the sender should input the desired quantity and unit. If a unit other than kilogram is used, and since SFUs only exist in kilograms, the system converts the transfer amount to kilograms, rounding up the amount to the nearest 0.01kg, to ensure that the specified amount is transferred without discrepancies in quantities due to unit conversions. More information about unit conversions is available in the System Rules section 2. Functional Units. Below the transfer amount specification, the amount of corresponding emissions reductions depending on the formula selected in the drop-down menu on the top right corner and the IATA TTW formula is displayed.

Recipients can be searched by either Company Name or Company ID. Only registered companies appear in the search results. Once a recipient company is selected, the company's ID, name, and address are displayed. Users can use this information to validate whether the selected company is correct.



By clicking on the "+ Add Transfer" button, several transfers can be initiated from a single group of SFUs (SAFR ID).

A new SAFR ID is generated at the time of transfer, and a row with a 'transfer pending' status is created for each 'tab' of transfers initiated.

The optional pricing information will only be shown to the sender to track pricing information of SAF. The sender should indicate the price of the entire portion within each tab that is being transferred, and the system will calculate the price per tonne in the inventory. In contrast, the comment box will be shown to the recipient of the transfer and can be used for communication purposes.

6.4.1.2 Transfer Review

Transfer review is the second step in the transfer process. The header is updated to include the total amounts being transferred from the previous screen, as well as explicitly identify the amounts left in the SFUs. The emissions reductions formula is locked as well.

The details of all transfers are included below the header. To make any changes, a user needs to return to the previous window using the corresponding button. Transfers can also be discarded by clicking the "Discard"

button or saved in “transfer draft” status by clicking on the “x” on the top right after saving progress. Finally, transfers are initiated by clicking the “Confirm Transfer” button.

A success screen is displayed upon successful transfer initiation.

6.4.3 Transfers that include a Scope 3 allocation

As an exception to the general transfer process, FP/FS may transfer SFUs to an AO company with pre-allocated Scope 3. After identifying the AO recipient of Scope 1 attributes as in the case of a “regular” transfer, FP/FS should click “+ Add Scope 3 Allocation” below the comment box to specify the allocation of Scope 3 attributes.

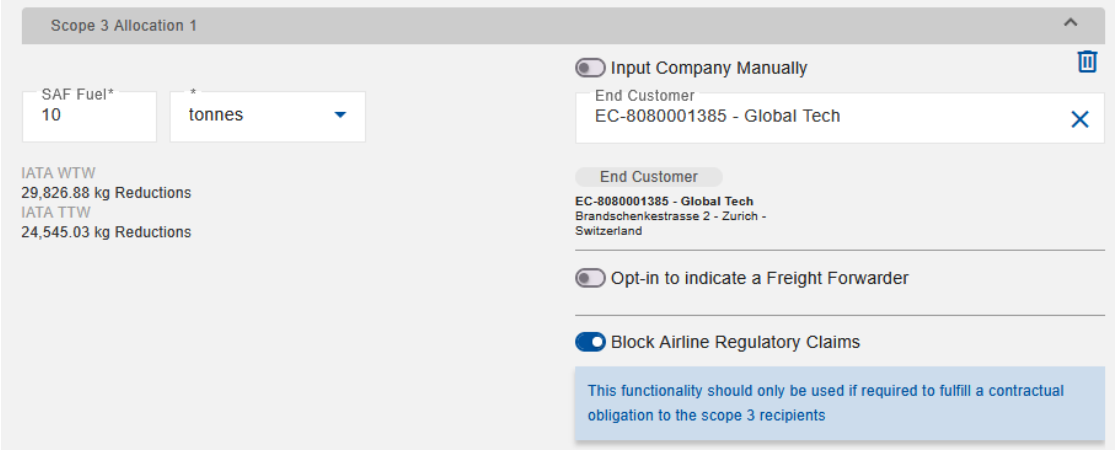
Recipients of Scope 3 allocation can be identified by searching the Company Name or Company ID among all EC/FF companies in the Registry. Alternatively, the user can select to ‘Input Company Manually’ and provide recipient company information. Note that allocations specified manually cannot be added to a company’s inventory at a later date.

The allocation of Scope 3 attributes is based on the amount of Scope 1 being transferred to the AO, and the total Scope 3 allocation cannot exceed the amount of Scope 1 being transferred. Any unallocated Scope 3 attributes will be transferred to the AO. When an AO accepts this type of transfer, the SFUs are automatically redeemed, and Scope 3 attributes allocated as designated, using the emissions reductions formula selected by the FP/FS.

If any Scope 3 allocations are included in the transfer, they are also displayed in the Review step, which features the same options as for a “regular” transfer.

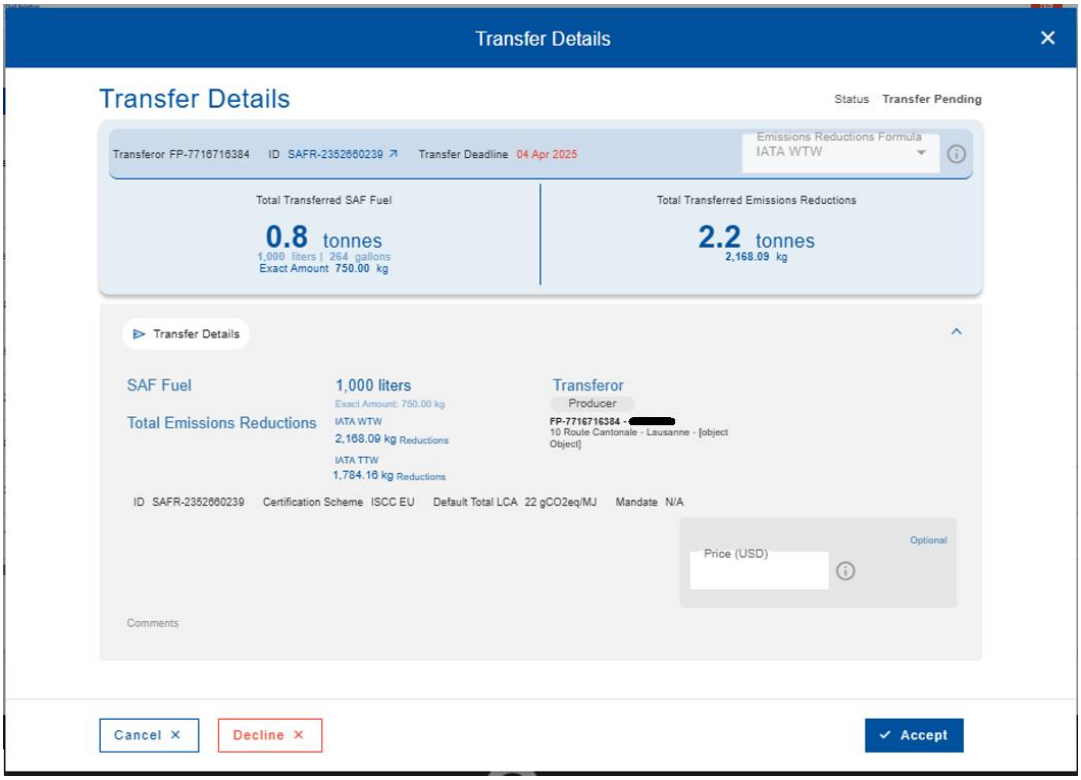
6.4.3.1 Block Airline Regulatory Claims

When a FP or FS transfers SFUs to an AO and allocates Scope 3, it can block the AO from claiming Scope 1 for regulatory purposes, if necessary to fulfil a contract with the Scope 3 recipient and in agreement with the AO. If AO regulatory claims are blocked for any Scope 3 allocations, such allocations are clearly highlighted in the Review page. If claiming for regulatory purposes is blocked by an FP or FS, the drop-down to select a regulatory scheme at the point of transfer acceptance and redemption is disabled for the AO. In all cases, the transfer must be accepted by the AO.



6.4.4 Accepting a Transfer

To accept a transfer, a user should navigate to their pending tab and open a transfer, by either clicking on the corresponding transfer ID or clicking on the three-dot action button menu and selecting the “accept/decline transfer” option.



The header provides an overview of key transfer characteristics: the total amount of SFUs being transferred, as well as a breakdown between SFUs designated to the recipient's inventory and those that will be redeemed following transfer acceptance (if any). Corresponding emissions reductions are also displayed and calculated based on the formula in the top right corner. The formula is not editable; however, it is only binding for the SAF being redeemed; any SAF designated for the recipient's inventory maintains a flexible selection of the emissions reductions formula at a later stage.

Detailed transfer information is shown below the header, and the user can view key SAF properties. If included, detailed Scope 3 allocations are shown, and any SAF whose Scope 1 is blocked from regulatory claiming is shown in red.

If any Scope 3 allocations are included, a user can choose whether to claim the associated Scope 1 under a regulatory scheme if allowed by the certification of the source SAF. The user can either claim all or none of the eligible SAF toward a regulatory scheme, i.e., the user cannot selectively claim toward a regulatory scheme among the pre-defined Scope 3 allocations.

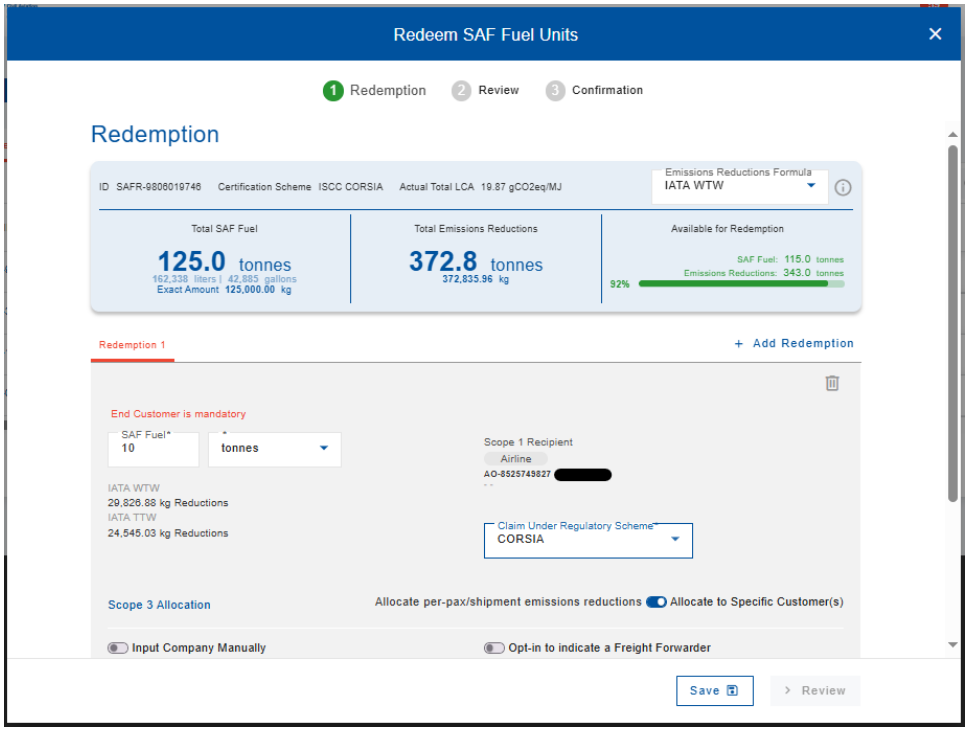
At the bottom of the page, the user can either "Close" the transfer without any action saved, "Decline" it, or "Accept Transfer". If the transfer is accepted, the SFUs become 'active' in the recipient's inventory. If the transfer is declined, the SFUs once again become 'active' in the sender's inventory. If a transfer is not accepted within 14 calendar days of its initiation, it is automatically declined, and SFUs that were pending transfer are returned to the sender's inventory.

Note that at any point before a pending transfer is accepted, the sender may choose to cancel the transfer. By cancelling the transfer, the SFUs become 'active' in the sender's inventory again, and disappear from the recipient's 'pending' inventory tab.

6.5 Redemption

Redemption of SFUs can only be initiated by an AO user. The Redemption process marks the point when the SFUs are used, and the Scope 1 and Scope 3 emissions occur. An AO user holding SFUs can choose to redeem the entirety or part of it by specifying the redemption quantity and recipient. Within the same (series of) redemption(s), originating from a single group of SFUs (SAFR ID), AO users can indicate multiple Scope 3 recipients. The Scope 1 recipient is the AO redeeming SFUs by default.

To initiate a redemption, a user should select SFUs by clicking on the SAFR ID and choosing the redemption option from the SFU overview page or clicking on the three-dot action button menu and selecting the redemption option. This opens the redemption screen.



6.5.1 Specifying Redemption Details

The first step of the redemption process involves defining the redemption quantities and recipients. The redemption page header provides key information about the selected SFUs, such as the LCA value, amount of SFUs, corresponding emissions reductions (depending on the formula selected), and the amount available for redemption that is updated automatically throughout the process. Only one formula, selected in the top-right corner, can be used within the (series of) redemption(s), and is the final formula used for the redemption. **The formula cannot be changed at a later time.** The available formulas in the drop-down menu on the top-right corner are the IATA WTW, Formula 3, and Formula 4.

To specify the redemption amount, the redeemer should input the desired quantity and unit. If a unit other than kilogram is used, and since SFUs only exist in kilograms, the system converts the redemption amount to kilograms, rounding up to the nearest 0.01kg, to ensure that the specified amount is redeemed without discrepancies due to unit conversions. More information about unit conversions is available in the System Rules section 2. Functional Units. Below the redemption amount specification, the corresponding emissions reductions depending on the formula selected in the drop-down menu on the top right corner and the IATA TTW formula is displayed.

The user can choose a regulatory scheme to claim the SFUs under. The drop-down menu dynamically changes based on the eligibility of the original SAF batch. The user can either claim all or none of the eligible SAF toward a regulatory scheme, i.e., the user cannot selectively claim toward a regulatory scheme among the pre-defined Scope 3 allocations.

The optional pricing information will only be shown to the redeemer to track pricing information of SAF. The redeemer should indicate the price of the entire portion within each tab that is being redeemed, and the system will calculate the price per tonne in the inventory. In contrast, the comment box will be shown to the Scope 3 recipients and can be used for communication purposes.

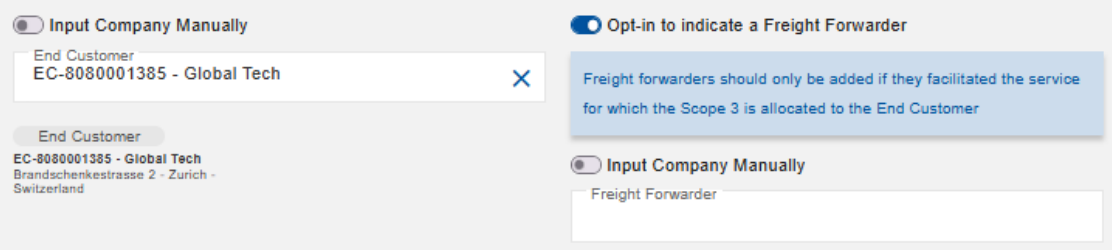
Redeemers can either choose to allocate to a specific Scope 3 Recipient or for per passenger/shipment allocations using the toggle. For more information, please see 6.5.1.1 Allocating Scope 3 Recipient(s) and 6.5.1.2 Allocate for Per-Pax/Shipment Allocation

By clicking on the “+ Add Redemption” button, several redemptions can be initiated from a single group of SFUs (SAFR ID).

6.5.1.1 Allocating Scope 3 Recipient(s)

Recipients can be searched by Company Name or Company ID. Only registered companies appear in the search results. Once a recipient company is selected, the company’s ID, name, and address are displayed. Users can use this information to validate whether the chosen company is correct.

By toggling “Opt-in to indiciate a Freight Forwarder”, the user can also indicate a Freight Forwarder in addition to the End Customer. This option should only be selected when the Freight Forwarder facilitated the service for which the End Customer is also responsible for, e.g., a freight forwarder and shipper.



6.5.1.2 Allocate for Per-Pax/Shipment Allocation

When redeeming, the AO can choose to allocate the emissions reductions on a per-passenger/shipment basis, or “keep” the Scope 3 benefits to apply the SAF emissions reductions equally across their entire network or to (individual or groups of) routes, according to The IATA SAF Accounting and Reporting Methodology Section 5.4.

Under the inventory and the emissions statement/excerpts, the Scope 3 allocation is shown as “per pax/shipment” instead of a company name.

6.5.1.3 Redemption Review

Redemption review is the second step in the redemption process. The header is updated to include the total amounts being redeemed from the previous screen(s), and the amounts left in the group of SFUs are explicitly identified. The emissions reductions formula is locked.

The details of all redemptions are included below the header. The user must return to the previous window using the corresponding button to make any changes. Redemptions can also be discarded by clicking the “Discard” button or saved in “redemption draft” status by clicking on the “x” on the top right after saving progress. Finally, redemptions are initiated by clicking the “Confirm” button.

A success screen is displayed upon successful transfer initiation.

Following a successful redemption, a new SAFR ID(s) is generated, and a row with a ‘Redeemed’ status is created for each ‘tab’ of transfers initiated.

SFUs with the redemption draft status can be discarded, edited, or finalized via the inventory. The action can be initiated by clicking on the SAFR ID and choosing the edit redemption option from the batch overview page or clicking on the three-dot action button menu and selecting the edit redemption option.

6.5.3 Emissions Statement

An emissions statement details the redemption made by the AO. The AO can access the emissions statements, as well as the upstream (FP, FS) and downstream stakeholder (FF, EC) if they are involved in the redemption via their inventories.

A user can click on the three-dot action button menu of the SFUs in the redeemed tab of their inventory to download an emissions statement. Additionally, at the time of redemption, the user can choose to generate all emissions statements associated with the (series of) redemption(s). If there is only one scope 3 allocation, or if the user chooses to download an emissions statement via the three-dot action button menu, the download of a singular statement is instantaneous. If there are multiple scope 3 allocations, a zip file containing all emissions statements an asynchronous process to generate the file would begin. Once the file is available to download, the user would see it in their download center. For more information on the Download Center, please see 6.5.5 Download Center.

Please see Annex II for an example of an emissions statement.

6.5.4 Emissions Excerpt

An emissions excerpt summarizes the transactions between the Scope 1 AO recipient and a specific Scope 3 recipient(s). The AO can access the emissions excerpt, as well as the upstream (FP, FS) and downstream stakeholder (FF, EC) if they are involved in the redemption.

The user can click on the 'Generate Emissions Excerpt' button in the inventory to specify the Scope 1 and Scope 3 Recipients as well as the date range. The user can choose to download the emissions excerpt as a standalone or generate the excerpt and all statements associated with the excerpt. The download of a singular excerpt is instantaneous. If the user chooses to generate an excerpt with the associated statements, a zip file will be generated. Once the file is available to download, it will be shown in the Download Center. For more information, please see 6.5.5 Download Center.

Please see Annex III for an example of an emissions excerpt.

6.5.5 Download Center

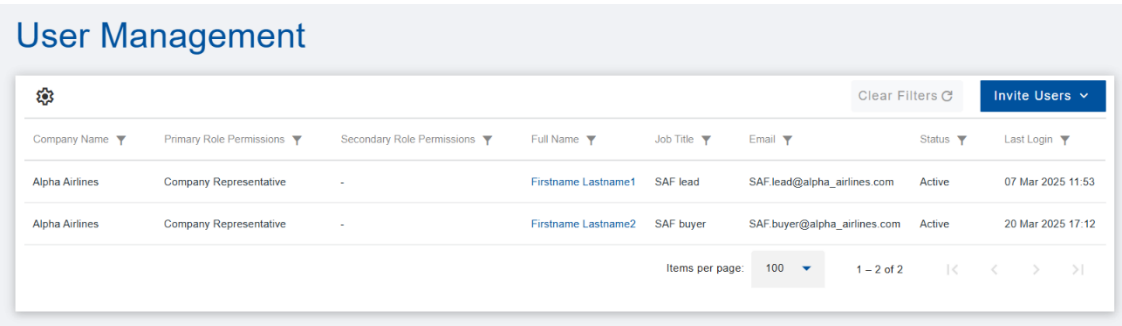
If the user chooses to download multiple documents at the same time, by either downloading multiple emissions statements associated with a series of redemptions from the same SFU or downloading the individual statements associated with a given excerpt, the download will not occur instantaneously. Instead, a zip file will be generated in the Download Center.

Once the file is ready for users to download, the user can click on the download button via the Download Center. Files are kept in the Download Center for 30 days before expiry.

7. Admin

7.1 User Management (for Company Representatives only)

The User Management page allows Company Representatives to invite new users, approve new users, and edit user permissions within their company.

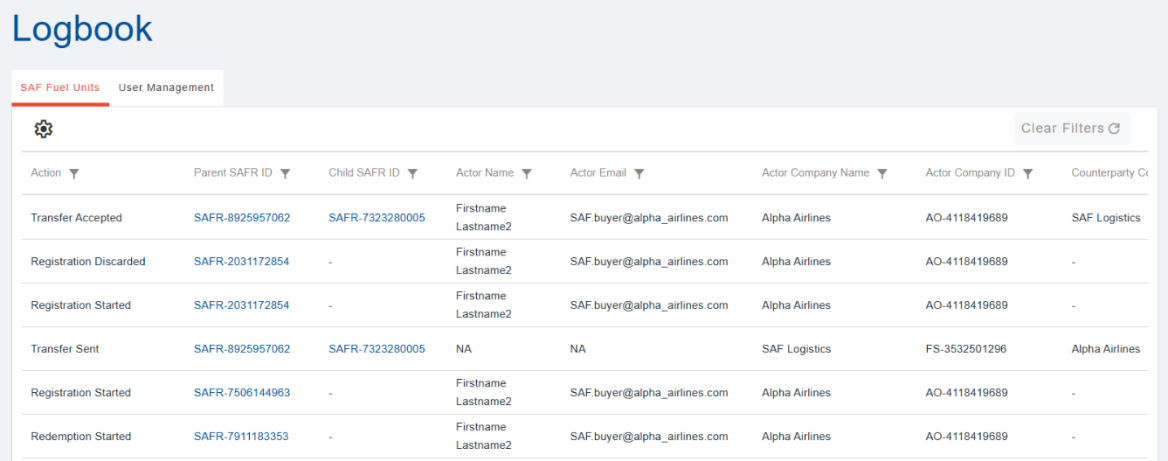


7.1.2 User Invitation by the Company Representative

The Company Representative can invite users via the SAF Registry to allow users to bypass the approval process. For this, the Company Representative must provide the first and last name, email, and optionally, the job title of the invitee. The company will default to the Company Representative's company, and Company Representatives may not invite users outside of their organization.

7.2 Logbook

Users can view their transaction history which records all actions done on the registry pertaining to the company.



Like the inventory, the logbook is customizable. Users can add, remove, and move columns as well as filter, sort, by and search within columns.

There are two tabs in the logbook. One is the **SAF Fuel Units** that pertain to the SFUs, and the second is **User Management** that pertain to the users of a company. Only the Company Representatives can access the second, User Management tab.

7.2.1 SAF Fuel Units Tab

Within the SAF Fuel Units tab, users can choose to add/remove/move the following columns.

- **Action**: The action that was logged. The available actions are shown below.
- **Parent SAFR-ID:** The SAFR-ID of the SFUs before it was split or its holder changed.
- **Child SAFR-ID**: The SAFR-ID of the SFUs after it was split or its holder changed.
- **Operation ID**: The ID of the transaction, displaying the details of the transfer.
- **Actor Name**: The name of the user that performed the action
    - The name will be hidden if the actor is not a user within the company
- **Actor Email**: the email of the user that performed the action
    - The email will be hidden if the actor is not a user within the company
- **Actor Company Name**: The name of the company of the actor
- **Actor Company ID**: The ID of the company of the actor

- **Counterparty Company Name**: The name of the company of the counterparty. The counterparty is the party that was involved in the action but was not the actor.
- **Counterparty Company ID**: The ID of the company of the counterparty.
- **Time and Date**: The time and date displayed in DD MMM YYYY and 24-hr time. Time is displayed in the user's time zone.

Action	Status of Parent ID before action	Status of Child ID after action	Actor	Counterparty
Registration Started		Registration Draft	Registrant	
Registration discarded	Registration Draft	Archived	Registrant	
Registration submitted	Registration Draft	Validation pending	Registrant	Validator
Registration cancelled	Validation pending	Registration Draft	Registrant	
Validation started	Validation pending	Validation in progress	Validator	
Validation discarded	Validation in progress	Validation pending	Validator	
Validation completed	Validation in progress	Active	Validator	Registrant
Information requested	Validation in progress	information required	Validator	Registrant
Registration discarded	Information required	Archived	Registrant	Validator
Registration edits submitted	Information required	Validation pending	Registrant	Validator
Validation declined	Validation in progress	Validation declined	Validator	Registrant
Transfer started	Active	Transfer draft	Sender	
Transfer discarded	Transfer draft	Active	Sender	
Transfer sent	Transfer draft	Transfer pending	Sender	Recipient
Transfer cancelled	Transfer pending	Active (in sender's inventory)	Sender	Recipient
Transfer expired	Transfer pending	Active (in sender's inventory)	Sender	Recipient
Transfer accepted	Transfer pending	Active (in recipient's inventory)	Recipient	Sender
Transfer declined	Transfer pending	Active (in sender's inventory)	Recipient	Sender
SFUs split	Active	Active	Sender	
Redemption started	Active	Redemption draft	Sender	
Redemption discarded	Redemption draft	Active	Sender	
Redemption completed	Redemption draft	Redeemed	Sender	Recipient (if applicable)
SFUs Frozen	ANY STATUS	Frozen	Validator	Any involved party

7.2.2 User Management Tab

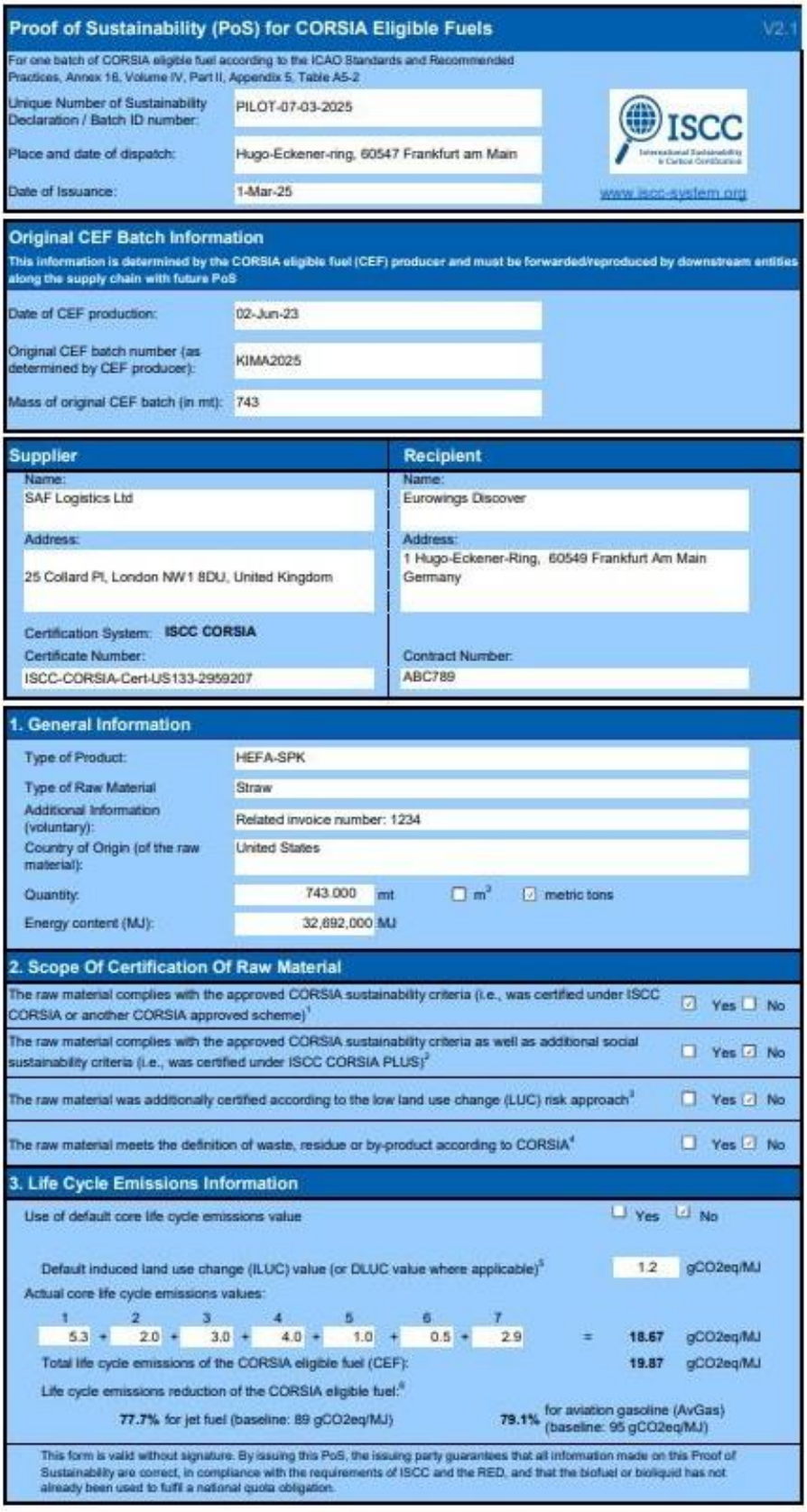
Within the SAF Fuel Units tab, users can choose to add/remove/move the following columns.

- **Action**: The action that was logged. The available actions are shown below.
- **Actor Name**: The name of the user that performed the action
- **Actor Email**: the email of the user that performed the action
- **User**: The name of the user whose permissions changed.
- **Company Name**: The name of the company of the user.
- **User Roles**: The role of the company that the user can access. More on roles in 4.1 Company Roles
- **User Permissions**: The permissions of the user. More on permissions in 4.2 User Permissions
- **Time and Date**: The time and date displayed in MMM DD YYYY and 24-hr time. Time is displayed in the user's time zone.

Action	Status in User Management (before)	Status in User Management (after)
User invited		Invited by CR
User invited		Invited by Admin
User onboarding complete	Pending CR Approval	Active
User onboarding complete	Pending Admin Approval	Active
User declined	Pending CR Approval	Declined
User declined	Pending Admin Approval	Declined
User permissions changed	Active	(no change)
User deactivated	Active	Deactivated
User reactivated	Deactivated	Active

Annex I: PoS Templates that can be Parsed

ISCC CORSIA



Proof of Sustainability (PoS) for CORSIA Eligible Fuels V2.1

For one batch of CORSIA eligible fuel according to the ICAO Standards and Recommended Practices, Annex 16, Volume IV, Part II, Appendix 5, Table A5-2

Unique Number of Sustainability Declaration / Batch ID number:	PILOT-07-03-2025
Place and date of dispatch:	Hugo-Eckener-ring, 60547 Frankfurt am Main
Date of Issuance:	1-Mar-25

ISCC
www.iscc-system.org

Original CEF Batch Information

This information is determined by the CORSIA eligible fuel (CEF) producer and must be forwarded/reproduced by downstream entities along the supply chain with future PoS

Date of CEF production:	02-Jun-23
Original CEF batch number (as determined by CEF producer):	KIMA2025
Mass of original CEF batch (in mt):	743

Supplier	Recipient
Name: SAF Logistics Ltd	Name: Eurowings Discover
Address: 25 Collard Pl, London NW1 8DU, United Kingdom	Address: 1 Hugo-Eckener-Ring, 60549 Frankfurt Am Main Germany
Certification System: **ISCC CORSIA**	
Certificate Number: ISCC-CORSIA-Cert-US133-2959207	Contract Number: ABC789

1. General Information

Type of Product:	HEFA-SPK
Type of Raw Material	Straw
Additional Information (voluntary):	Related invoice number: 1234
Country of Origin (of the raw material):	United States
Quantity:	743.000 mt ☐ m^3 ☑ metric tons
Energy content (MJ):	32,692,000 MJ

2. Scope Of Certification Of Raw Material

The raw material complies with the approved CORSIA sustainability criteria (i.e., was certified under ISCC CORSIA or another CORSIA approved scheme)[1]	☑ Yes ☐ No
The raw material complies with the approved CORSIA sustainability criteria as well as additional social sustainability criteria (i.e., was certified under ISCC CORSIA PLUS)[2]	☐ Yes ☑ No
The raw material was additionally certified according to the low land use change (LUC) risk approach[3]	☐ Yes ☑ No
The raw material meets the definition of waste, residue or by-product according to CORSIA[4]	☐ Yes ☑ No

3. Life Cycle Emissions Information

Use of default core life cycle emissions value ☐ Yes ☑ No

Default induced land use change (ILUC) value (or DLUC value where applicable)[5]: 1.2 gCO2eq/MJ

Actual core life cycle emissions values:

1	2	3	4	5	6	7		
5.3	+ 2.0	+ 3.0	+ 4.0	+ 1.0	+ 0.5	+ 2.9	= **18.67**	gCO2eq/MJ

Total life cycle emissions of the CORSIA eligible fuel (CEF): **19.87** gCO2eq/MJ

Life cycle emissions reduction of the CORSIA eligible fuel:[6]

77.7% for jet fuel (baseline: 89 gCO2eq/MJ) **79.1%** for aviation gasoline (AvGas) (baseline: 95 gCO2eq/MJ)

This form is valid without signature. By issuing this PoS, the issuing party guarantees that all information made on this Proof of Sustainability are correct, in compliance with the requirements of ISCC and the RED, and that the biofuel or bioliquid has not already been used to fulfil a national quota obligation.

RSB ICAO CORSIA

Proof of Sustainability (PoS)

Batch ID Number:	Batch_ID_2460101
Number of the Delivery Note	Invoice_2460101
Date of Shipment:	02-Jun-23
Date of Issuance:	02-Jun-23

Supplier (name of certified operator who issue the PoS)

Name:	Address:
SAF Logistics	01 London Square, London UK

Supplier - site from which the product is forwarded (if different from the supplier above)

Name:	Address:
N/A	N/A

Customer

Name:	Address:
Alpha Airlines	01 Geneva, Switzerland, SW123 XYZ

Information if site is managed by a third party (in case of warehouses, distributors centers etc). May it is not applicable

Name:	Address:
N/A	N/A

Certification Information

RSB Certification Scheme:	Valid RSB Certificate Number:
RSB ICAO CORSIA	RSB123
Certification body:	**Chain of Custody Model:**
The Good Certification Body	Mass Balance

RSB Short claim:

The SAF is RSB ICAO CORSIA Compliant

General Information

Product Description:	Jet-A SAF
Raw Material:	UCO
Country of Origin:	United Kingdom
Quantity of Certified Product:	10 MT

Original Batch Producer Information (Only for SAF Producer)

This information should be reproduced along the supply chain with future PoS

Date of Original Production:	4/1/2023
Original Batch Number (Unique Number):	Batch_ID_2460101
Mass of Original Batch (MT):	10 MT

Only for wastes, residues and by-products (materials or products):

Raw material is eligible as waste, residue or by-product under the RSB ICAO CORSIA certification scheme (refer to Annex III - Positive List, in RSB-STD-12-001) ✓ Yes ☐ No

Greenhouse Gas Information

GHG Intensity:	19.87	g CO2eq/MJ	Default value (if **no**, specify **disaggregated actual values** at item **7** below)	No	
GHG value contains transport emissions?	Yes ☐ No	**If no:** **Transport**		**Distance**	-
For final products:					
GHG Savings (g CO2 eq/MJ):	69.13	**Fossil fuel comparator (g CO2eq/MJ)**		89 g CO2e/ MJ (jet fuel) and 95 g CO2e / MJ (AvGas)	
GHG Savings (%)	77.67%	**Lower heating value (MJ/kg):**		43	

ISSC EU

Proof of Sustainability (PoS) for Biofuels, Bioliquids and Biomass Fuels V3.0

Applies under the Renewable Energy Directive (EU) 2018/2001 (RED II)

Unique Number of the PoS: SAFR-123321

Date of Issuance of the PoS: 26th February 2024

ISCC International Sustainability & Carbon Certification
www.iscc-system.org

Supplier	Recipient
Name: SAF Supply Ltd.	Name: Alpha Airlines
Address: Rue de la Confederation 99, 1204 Geneva, Switzerland	Address: Paseo de la Americas, 23800 Madrid, Spain
Certification System: **ISCC EU**	
Certificate Number: EU-ISCC-Cert-2025	Contract Number: XXX

Address of dispatch/shipping point of the sustainable material:

☑ Same as address of supplier

Address of receipt/receiving point of the sustainable material:

☑ Same as address of recipient

Date of dispatch of the sustainable material: 27th February 2024

1. General information

Type of Product:	Co-processed oil to be used for replacement of petrol
Type of Raw Material	Animal by-products (category 1)
Additional Information (voluntary):	
Country of Origin (of the raw material):	USA
Quantity:	1,000,000 mt ☐ m^3 ☑ metric tons
Energy content (MJ):	44,000,000 MJ
EU RED Compliant material[3]	☑ Yes
ISCC Compliant material (volunt.)[4]	☑ Yes
Chain of custody option (voluntary)	Physical segregation
Country of biofuel production	Germany
Start date of biofuel production[1]	1st January 2024
If applicable, start date of bioliquid/biomass fuel use[1,2]	

2. Scope of certification of raw material

The raw material complies with the relevant sustainability criteria according to Art. 29 (2) - (7) RED II[5]	☐ Yes ☑ No
The agricultural biomass was cultivated as intermediate crop (if applicable)	☐ Yes ☑ No
The agricultural biomass additionally fulfills the measures for low ILUC risk feedstocks (if applicable)	☐ Yes ☑ No
The raw material meets the definition of waste or residue according to the RED II[6]	☑ Yes ☐ No
If applicable, please specify waste or animal by-product permit number	
Was support for the production of the fuel or fuel precursor received?[6]	☐ Yes ☑ No
If yes, please specify support nature and scheme	

3. Greenhouse Gas (GHG) emission information

Total default value according to RED II applied ☑ Yes ☐ No

E = Total GHG emissions from supply and use of the fuel (gCO2eq/MJ) 18.97 gCO2eq/MJ

Allocated heat: 15 gCO2eq/MJ heat Allocated electricity: 15 gCO2eq/MJ electricity

GHG emission saving[6]:

79.8% Biofuels for transport

RSB EU RED

Proof of Sustainability (PoS) - version 4.0

Batch ID Number (PoS Number):	BatchTest 12345
Number of the Delivery Note	Invoice 54321
Date of Shipment:	09 April 2024
Date of Issuance:	07 April 2024
Date and place of physical loading entry	05 April 2024 - London, UK
Date and place of physical loading exit:	06 April 2024 - Belfast, UK

Supplier (certified operator who issue the PoS)

Name:	Address:
SAF Logistics Ltd	Address 123, London, UK

Supplier - site from which the product is forwarded

Name:	Address:
Name and address of production/storage/ transmission and distribution site(s) and site from which the product is forwarded or biomethane exit point	

Customer (buyer company)

Name:	Address:
Belfast Aviation Ltd	Address 321, Belfast, UK

Information if site is managed by a third party

Name:	Address:
Include name and address if the previous production/processing/ transmission and distribution site is managed by an external third party	

Certification Information

Certification System:	Valid RSB Certificate Number:
RSB EU RED	4576
Certification body:	**Chain of Custody Model:**
SCS Global	Mass Balance

RSB EU RED Short claim:

RSB EU RED Compliant SAF

General Information

Product Description:	SAF-HEFA	
Raw Material:	UCO	
Country of Feedstock Origin:	France	
Country of Fuel production:	UK	
Date production plant entered in operation (for fuel plant only)	2015	
Quantity of Certified Product:	892	ton
Energy Quantity (Fuels only):	43	MJ per unit
Support provided for the production of consignment	RFTO	

Raw material/Fuel

Compliance with the sustainability criteria according to Article 29 (2) to (7) of Directive (EU) 2018/2001 was audited and certified?	☑ Yes	☐ No
Is the raw material a HIGH iLUC risk feedstock as defined by Delegated Act C(2019) 2055?	☐ Yes	☑ No
Is the raw material/fuel certified as LOW iLUC risk as defined under the EU RED?	☑ Yes	☐ No
Is the raw material/fuel listed in Annex IX of Directive 2018/2001/EU (see Annex VI of RSB Standard for EU Market Access)?	☑ Yes	☐ No

Only for wastes/residue materials and waste/residue based products:

Does the raw material meet the EU definition for waste and residues? Note: Substances that have been intentionally modified or contaminated are not covered by this definition	☑ Yes	☐ No
Waste or animal by-product permit number (if applicable)		

Only for renewable gases

Has the material received incentive/subsidy?	☐ Yes	☐ No
If yes, specify type of support (RES sector and country)		

Greenhouse Gas Information

GHG Intensity:	30	g CO2eq/MJ fuel	Default value	Yes
Additional specification in case (disaggregated) default values are used (in line with Annex V and Annex VI of Directive (EU) 2018/2001):	Transported 150 miles to customer in tanker			
GHG Components in case actual values are used:	State GHG emissions value in g CO2 equivalent/MJ of fuel (for biofuels / bioliquids / biomass fuels / renewable liquid and gaseous transport fuels of non-biological origin and recycled carbon fuels) and g CO2 equivalent / dry-ton feedstock (biomass and intermediaries). (Separate values for emissions from: the extraction or cultivation of raw materials; Annualized emissions from carbon stock changes due land use change; processing; transport and distribution) and Emissions savings from: soil carbon accumulation via improved agricultural management, carbon capture and geological storage; carbon capture and replacement; excess electricity from cogeneration)			
eSCA cap to be applied by biofuel producer: (emissions savings from soil carbon accumulation)	45 g CO2eq/MJ ☐	25 g CO2eq/MJ ☐		
GHG value contains transport emissions?	☐ Yes ☐ No	If no: Transport type	Distance km	
For final products:				
GHG Savings (g CO2 eq/MJ):	64.0	Fossil fuel comparator (g CO2eq/MJ)	94	
GHG Savings (%)	60%	Lower heating value (MJ/kg):		

ISCC PLUS

Sustainability Declaration according to ISCC PLUS V3.5.2

Unique number of Sustainability Declaration: ISCCPLUS-321

Date of issuance (DD.MM.YYYY): 30.12.2024

ISCC International Sustainability & Carbon Certification www.iscc-system.org

Supplier	Recipient
Name: SAF Supply Ltd.	Name: Delta Airways Ltd.
Address: Rue de Lausanne 123, 1000 Lausanne, Switzerland	Address: Drottninggatan 456, 111 21 Stockholm, Sweden
Certificate number: ISCC-PLUS-2025	Contract number:

Address of dispatch/shipping point of the sustainable material:

☑ Same as address of supplier

Address of receipt/receiving point of the sustainable material:

☑ Same as address of recipient

Date of dispatch of the sustainable material (DD.MM.YYYY): 05.01.2025

1. General Information

Type of product: AtJ-SPK (isobutanol)

Product specification (if applicable):

Raw material category*: ☐ Circular ☑ Bio-Circular ☑ Bio ☑ Renewable- energy-derived

Unit (please select): m3/15°C | 1000.000

Total quantity of certified material: 1000.000 m3/15°C

Total quantity of delivery (optional): 1000.000 m3/15°C

Percentage of certified material: 100.00 % (of the total quantity of delivery)

Type of recycling operations (circular/bio-circular): ☑ Chemical ☐ Mechanical ☐ Not applicable

Waste status (circular/bio-circular): ☑ Post-consumer material ☐ Pre-consumer material ☐ Mixed/unspecified

Type of raw material (optional): Forestry processing residues

Raw material specification (if applicable): UCO

Country of origin of the raw material (optional): Spain

Additional information: UCO

2. Chain of Custody

Chain of custody option: Controlled Blending

Multi-site credit transfer: ☐ No ☑ Yes

3. Sustainability Criteria

☐ ISCC compliant

☐ The raw material (bio) complies with the sustainability criteria according to the ISCC requirements as laid down in ISCC System Document(s) 202 "Sustainability Requirements".

☐ The raw material (circular/bio-circular) meets the definition of waste or residues, i.e. was not intentionally produced and modified, or contaminated, or discarded, to meet the definition of waste or residues (applicable to waste and residues and products produced from those).

4. Voluntary Add-Ons

ISCC PLUS (205-01) GHG-Emissions Requirements[3]: ☐ Yes ☑ No

Total GHG emission value: 18.978 g CO2-eq/MJ

E_{ec}	E_l	E_p	E_{td}	E_u	E_{sca}	E_{ccs}	E_{ccr}	=
2.5	+ 1.3	+ 3.6	+ 9.8	+ 5.6	- 2.1	- 2.8	-	= 17.9

Transportation distance	Ship	Train	Road
	km	km	km

ISCC PLUS (205-02) Consumables	☐ Yes	☑ No
ISCC PLUS (205-03) Non-GMO Food / Feed	☐ Yes	☑ No
ISCC PLUS (205-04) Non-GMO Technical Markets	☐ Yes	☑ No
ISCC PLUS (205-06) Electricity and Heat from Biogas Plants	☐ Yes	☑ No
ISCC PLUS (202-04) FSS Add-on - Food Security Standard	☐ Yes	☑ No

5. Information for Deliveries of Biofuels to Japan

For deliveries of corn or corn based ethanol from the U.S.:

Use of Japanese Default Values for U.S. ethanol (corn): ☑ Yes

Emissions from Land Use Change are zero (el = 0): ☑ Yes

For deliveries of sugar cane or sugar cane based ethanol from Brazil:

Use of Japanese Default Values for Brazilian ethanol (sugar cane): ☑ Yes

Emissions from Land Use Change are zero (el = 0): ☑ Yes

This form is valid without signature. By issuing this Sustainability Declaration, the issuing party guarantees that all information made on this Sustainability Declaration for Raw Materials and Intermediate Products are correct and in compliance with the requirements of ISCC.

* Explanations

RSB Global

Proof of Sustainability (PoS)

Batch ID Number:	MHA19910617
Number of the Delivery Note	Invoice_2460101
Date of Shipment:	02-Jun-23
Date of Issuance:	02-Jun-23

Supplier (certified operator who issues the PoS)

Name:	**Address:**
SAF Logistics Ltd	17 Malet St, London WC1E 7HZ, UK

Supplier - site from which the product is forwarded

Name:	**Address:**
SAF Logistics Ltd - UoL	15 Malet St, London WC1E 7HZ, UK

Customer

Name:	**Address:**
Alpines Airlines	Rue du Conseil-Général 14, 1205 Genève

Information if site is managed by a third party

Name:	**Address:**

Certification Information

Certification System:	**Valid RSB Certificate Number:**
RSB Global	RSB ICAO CORSIA
Certification body:	**Chain of Custody Model:**
RSB	Mass Balance

RSB Global Short claim:

General Information

Product Description:	Jet-A SAF	
Raw Material:	Tallow	
Country of Origin:	United Kingdom	
Quantity of Certified Product:	1000	ton

General Information

Product Description:	Jet-A SAF	
Raw Material:	Tallow	
Country of Origin:	United Kingdom	
Quantity of Certified Product:	1000	ton

Greenhouse Gas Information

GHG Intensity:	19.87	g CO2eq/MJ	Functional unit of the GHG value ('e.g. kg PE, kg finished bottles etc')	

GHG Components in case actual values are used: (Separate values for emissions from: the extraction or cultivation of raw materials; Annualized emissions from carbon stock changes due land use change; processing; transport and distribution) and Emissions savings from: soil carbon accumulation via improved agricultural management, carbon capture and geological storage; carbon capture and replacement; excess electricity from cogeneration)

GHG value contains transport emissions? ☐ Yes ☑ No — **If no:** **Transport:** type **Distance:** km

For final products:

GHG Savings: value g CO2eq/MJ — **Fossil comparator:** value **Units of Measurement:**

GHG Savings (%): — **Lower heating value (MJ/kg):** 42.8

Annex II: Example of an Emissions Statement

SAF Registry

Redemption Date: 11 Mar 2025
SAFR ID: 2195519239

Emissions Statement

This document provides a summary of the Sustainable Aviation Fuel (SAF) environmental attributes that have been redeemed on the IATA SAF Registry.

Scope 1 (Aircraft Operator)	Scope 3 (End-customer)	Scope 3 (Freight Forwarder)
British Airways	Global Tech	-

Amount of neat SAF	Emissions Reductions[1]
1.0 (tonnes)	3.0 (tonnes)
999.00 (kg)	2,979.70 (kg)

The following fuel characteristics determine the SAF environmental attributes associated with this redemption:

Amount of Neat SAF (kg)	999.00
Neat SAF Energy Content (MJ/kg)	34,082,021.63
Sustainability Certification Scheme	ISCC CORSIA
Total Lifecycle Emission Value (gCO_2e/MJ)	19.87
LCA Reduction (%) - [89 fossil baseline]	0
Feedstock Type	Tallow
Feedstock Conversion Process	HEFA-SPK
Country of Feedstock Origin	United States of America (the)
Year of Neat SAF Production	2024
Neat SAF Producer Name	-
Neat SAF Supplier Name	SAF Logistics Ltd
Information on Eligible Incentives Used	USA_INFLATION_REDUCTION_ACT_TAX_CREDITS
Information on Applicable Mandates	MANDATE_TURKEY
Airport of Delivery	-
Date of Delivery	06 Mar 2025
Regulatory Scheme Claim	CORSIA

[1] The Emissions Reductions are calculated using the GHG values submitted during the SAF registration using the redemption formula below:

IATA WTW

$$(kg\,of\,CO_2e) : 3.84\left[\frac{kgCO_2e}{kg}\right] \times Amount\,of\,Neat\,SAF\,[kg] \times \left(1 - \frac{Total\,LCA_{SAF}\left[\frac{gCO_2e}{MJ}\right]}{89\left[\frac{gCO_2e}{MJ}\right]}\right)$$

Annex III: Example of an Emissions Excerpt

SAF Registry

Excerpt Issue Date: 20 Mar 2025

Emissions Excerpt

This document provides a summary of the Sustainable Aviation Fuel (SAF) environmental attributes that have been redeemed on the SAF Registry between **02 Feb 2025** and **20 Mar 2025** as outlined below.

Scope 1 (Aircraft Operator)
Multiple Aircraft Operators

Scope 3 (End-customer)
Global Tech

Total Amount of Neat SAF
11.0 (tonnes)
10,999.00 (kg)

Total Amount of Emissions Reductions
32.0 (tonnes)
31,973.86 (kg)

The following is the list of SAF amounts and their characteristics redeemed over the designated period. Each row represents a separate Emissions Statement:

SAFR ID	Redemption Date	SAF (kg)	Redeemed Emissions Reductions (kg)	Redemption Formula[1]	Emissions Reduction (%)	Feedstock Type	Scope 1 Owner (AO)	Scope 3 Owner (EC)	Scope 3 Owner (FF)	Regulatory Claim
2195519239	11 Mar 2025	999.00	2,979.70	IATA WTW	0.22	Tallow	British Airways	Global Tech	-	CORSIA
8569866985	17 Mar 2025	10,000.00	28,994.16	IATA WTW	0.24	Bark	Porter Airlines	Global Tech	FlyGoods	NONE

[1] The Redemption formula is the formula used to calculate the GHG emissions reductions. A list of the calculation formulas enabled by the Registry is provided in the last page of this document.

Emissions Reductions Formulas

IATA WTW

$$(kg\,of\,CO_2e) : 3.84\left[\frac{kgCO_2e}{kg}\right] \times Amount\,of\,Neat\,SAF\,[kg] \times \left(1 - \frac{Total\,LCA_{SAF}\left[\frac{gCO_2e}{MJ}\right]}{89\left[\frac{gCO_2e}{MJ}\right]}\right)$$

Formula 3

$$(kg\,of\,CO_2e) : \frac{Neat\,SAF\,Energy\,Contnet[MJ] \times 89\left[\frac{gCO_2e}{MJ}\right] \times LCA_{SAF}\,Reductions[\%]}{1000}, where\,LCA_{SAF}\,Reductions[\%] = 1 - \frac{Total\,LCA_{SAF}\left[\frac{gCO_2e}{MJ}\right]}{89\left[\frac{gCO_2e}{MJ}\right]}$$

Formula 4

$$(kg\,of\,CO_2e) : \frac{Neat\,SAF\,Energy\,Contnet[MJ] \times 94\left[\frac{gCO_2e}{MJ}\right] \times LCA_{SAF}\,Reductions[\%]}{1000}, where\,LCA_{SAF}\,Reductions[\%] = 1 - \frac{Total\,LCA_{SAF}\left[\frac{gCO_2e}{MJ}\right]}{94\left[\frac{gCO_2e}{MJ}\right]}$$

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