

FeedstockTrace

ISCC-compliant UCO collection — from drop-off to mass balance

Your collection points. Your tours. Your audit trail.



Built for international teams

Same app, three languages: English · Deutsch · 中文 — switchable per user.

The desktop login form for FeedstockTrace is displayed on a light gray background. At the top right, there is a language selector dropdown showing 'GB EN'. The logo for FeedstockTrace, featuring a blue water drop with a green checkmark, is centered at the top. Below the logo, the text 'RED III Traceability Collection System (Demo)' is visible. The main login form is a white box with a 'Log in' title. It contains an 'Email' input field, a 'Password' input field, a 'Remember me' checkbox, and a 'Log in' button. A link for 'Forgot your password?' is located below the password field. At the bottom of the form, there is an information icon followed by 'Demo logins LOCAL' and a list of demo users: 'office@demo.test / demo1234 — Olivia Office (office)', 'dispo@demo.test / demo1234 — Daniel Dispo (office)', 'driver1@demo.test / demo1234 — Frank Fahrer (driver)', and 'driver2@demo.test / demo1234 — Selma Sammler (driver)'.

Desktop — dispatch office

The mobile login form for FeedstockTrace is displayed on a light gray background. At the top right, there is a language selector dropdown showing 'GB EN'. The logo for FeedstockTrace, featuring a blue water drop with a green checkmark, is centered at the top. Below the logo, the text 'RED III Traceability Collection System (Demo)' is visible. The main login form is a white box with a 'Log in' title. It contains an 'Email' input field, a 'Password' input field, a 'Remember me' checkbox, and a 'Log in' button. A link for 'Forgot your password?' is located below the password field. At the bottom of the form, there is an information icon followed by 'Demo logins LOCAL' and a list of demo users: 'office@demo.test / demo1234 — Olivia Office (office)', 'dispo@demo.test / demo1234 — Daniel Dispo (office)', 'driver1@demo.test / demo1234 — Frank Fahrer (driver)', and 'driver2@demo.test / demo1234 — Selma Sammler (driver)'.

Mobile — driver app



Compliance is a paperwork battle

What RED-III, ISCC-EU and EUDR demand from collection companies

RED-III

- 65 % GHG reduction proof
- Detailed calculation per batch
- Updated default values (2026)
- Distance records per tour

ISCC-EU 203

- Self-declaration per CP
- Mass-balance period closure
- Country of origin per pickup
- Pool GHG aggregation

EUDR (Dec 2026)

- Geolocation of every CP
- Supply chain due diligence
- UDB registration status
- Audit-grade photo evidence

"One audit costs us 3 weeks of Excel work. Every year."



Built by ISCC insiders

Not another generic compliance tool. Designed by the people who wrote and audited the rules.

Former ISCC Integrity Assessor

Audited collection points and processing facilities across the EU UCO supply chain.

ISCC System Developer

Co-developed traceability and mass-balance methodology for ISCC-EU clients.

RED-III + ISCC + EUDR fluent

Reads the regulations in original — not via consultant summaries.

Lives the audit pain

Built FeedstockTrace because the existing tools made auditors' work harder, not easier.

"Compliance tools built by compliance people — not by SaaS marketers."

Verify on LinkedIn: [\[your-linkedin-url\]](#)

Glatow & Associates · Founder & Lead Developer



FeedstockTrace takes care of it

One app. From the photo at the collection point to the audit export.

100 %

digital — no more Excel chaos

1 click

audit Excel with 5 sheets

3 wks

saved per audit cycle

*Dispatchers plan tours. Drivers record pickups.
FeedstockTrace produces the audit trail — automatically.*



Dashboard — your daily compliance cockpit

Open the app — see in 10 seconds what needs attention today.

The dashboard features a dark header with the FeedstockTrace logo, user information (Olivia Office), and language settings (GB EN). A left sidebar lists navigation options: OPERATIONS (Dashboard, Pickup Orders, Tours), MASTER DATA (Collection Points, Customers, Materials), MASS BALANCE & STOCK (Mass Balance, Tanks, Conversion factors), DOCUMENTS & DECLARATIONS (Self-Declarations, Sustainability Declarations), REPORTING & GHG (GHG Calculator, Processing EFs, UDB Export), and COMING SOON (Live GPS Tracking). The main content area includes a 'Dashboard' title with buttons for '+ New pickup order' and '+ New collection point'. A key message states: 'This FeedstockTrace operation acts as an ISCC "Collecting Point" (ISCC EU 203 §3.4.7) — responsible for traceability and correct declaration of all collected material.' Below this are four KPI cards: 'PICKUPS TODAY' (0/0 completed/planned), 'SD PROBLEMS' (3 missing/expired), 'SIGN @ PICKUP' (1 SD to be signed on-site), and 'COLLECTED AMOUNT (JUN 2026)' (0,0 kg collected this month). A section for 'Processing emissions e_p — Q2-2026' shows 10,145 kg CO₂eq / dry-t recorded, with a link to 'Open period'. The 'Compliance alerts' section (7 alerts) lists: 'Blocklist check due' for Currywurst Tegel (never checked), 'Blocklist check due' for Hotel Brandenburger Hof (last checked 232 days ago), 'UDB registration missing' for Mensa TU Berlin, 'UDB registration missing' for Restaurant Schoonerhus, and 'Blocklist check due' for Tropic Palm Estate (never checked). An 'AI advisor' button is visible in the bottom right of the alerts section.



KPI cards

Today's pickups, SD problems, signatures collected, monthly volume.



Compliance hints

Color-coded: blocklist due, volume outliers, UDB gaps, flagged pickups.



Today's activity

All running pickup orders with driver assignment + status.



SD alerts

Suppliers with missing or expired declarations — actionable links.



AI advisor

RAG-based assistant: ask compliance questions, get sourced answers.



What the app does

Six core modules that together cut your audit effort to a minimum



Tour planning

Map-based, auto-sequencing, real road distances via Google Routes.



Driver app

Mobile-first, offline-ready, photo + signature + GPS per pickup.



Collection points

Full master data, proof photos, self-declaration workflow.



GHG calculation

Method 1, Method 2 and DDV — automatic per tour & pickup.



Audit & UDB

One-click Excel + UDB CSV export for ISCC and EUDR.



Mass balance

ISCC-EU 203 compliant — pool, tank, SD issuance.



AI Compliance Advisor — your regulation expert

Trained on the actual EU regulations. Cites sources. No more digging through 300-page PDFs.

AI Compliance Advisor
Trained on RED-III - ISCC EU 203/205 - IR 2022/996 - Beta

Olivia Office **OO**

You · asked just now

What's the GHG default value for UCO under RED-III, and when can we deviate?

AI Advisor
answered · 3 sources

Under **RED-III Annex V Part B**, used cooking oil follows the residue pathway, so most upstream emissions are zero. The disaggregated typical default for transport from collection point to processing — the **e_{td}** component — is **9.5 g CO₂eq/MJ**.

You may deviate **downward** via individual calculation: **Method 1** (actual fuel consumption) or **Method 2** (truck efficiency $\eta \times \text{tkm}$). Both must be ISCC-audited and supported by primary data (fuel logs / telematics).

Deviating **upward** is allowed without calculation but cannot exceed the conservative typical value. In practice operators using FeedstockTrace's Method 2 routinely land between 5–7 g CO₂eq/MJ — a 30–45 % reduction vs. the default.

SOURCES

- RED-III Annex V Part B · Table 4
- ISCC EU 205 §4.3.4 Transport emissions
- IR 2022/996 Annex IX · Disaggregated values

TRY: How do I close a mass-balance period? What's a "default value" in Article 31? When is EUDR enforced for UCO?

Ask a question — about RED-III, ISCC, EUDR, mass balance, GHG methods... **Send**

KNOWLEDGE BASE

- RED-III (2023/2413)
- ISCC EU 203 — System Basics
- ISCC EU 205 — Mass Balance & GHG
- IR 2022/996 — Implementing Regulation
- IPCC AR6 — GWP factors
- JEC WTT v5 — Pathway data



Trained on EU regulations

RED-III, ISCC EU 203/205, IR 2022/996 — updated whenever rules change.



Source-cited answers

Every claim links to the relevant clause. No hallucinations.



Available 24/7

Right inside the app. No "email the compliance lawyer" delays.



Multilingual

Answers in the user's language — English, German, Chinese.



Trains your team

Junior dispatchers learn ISCC by asking the advisor. Knowledge stays in-house.



Plan a tour in 60 seconds

Material filter

Only matching collection points appear — no planning mistakes.

Auto sequencing

Nearest-neighbour: shortest order from depot. Live on the map.

Real road route

Google Routes API computes auditor-accepted km when you save.

GHG method included

Choose Method 1/2/DDV right in the planner — tour is start-ready.

Saved tour — your audit anchor

The screenshot displays the FeedstockTrace interface for a saved tour. The top navigation bar includes the logo, language selection (GB EN), user profile (Olivia Office), and a log out button. The left sidebar contains a navigation menu with categories: OPERATIONS (Dashboard, Pickup Orders, Tours), MASTER DATA (Collection Points, Customers, Materials), MASS BALANCE & STOCK (Mass Balance, Tanks, Conversion factors), DOCUMENTS & DECLARATIONS (Self-Declarations, Sustainability Declarations), and REPORTING & GHG (GHG Calculator, Processing EFs, UDB Export). A 'COMING SOON' section at the bottom lists 'Live GPS Tracking' with a 'Soon' indicator.

The main content area shows the tour details for 'T-2026-0017' with a 'Planned' status. It includes a user profile (Frank Fahrer) and a date (25.05.2026). Action buttons for 'Start tour', 'Complete tour', and 'Cancel tour' are visible. A 'Stops' section lists four collection points with their respective pickup orders and planned status:

#	Collection Points	Pickup Orders	Actual quantity	Effective status
1	CP-0002 Hotel Brandenburger Hof	PO-2026-0057	-	Planned
2	CP-0004 Currywurst Tegel	PO-2026-0058	-	Planned
3	CP-0006 Restaurant Schoonerhus	PO-2026-0059	-	Planned
4	CP-0007 Werkskantine Finkenwerder	PO-2026-0060	-	Planned

The 'Map view' section shows a map of Northern Germany with a blue route connecting the four stops. The approximate road distance is 721,2 km. The 'GHG result' section displays a total of 52,221 kg CO₂eq / dry-t, with a note that it is a live preview. Below this, summary statistics are provided: Total distance (626,80 km), Truck type (TRUCK40_LIQUIDS, η=0.870), and Fuel type (DIESEL). The resulting e_td is 52,221 kg CO₂eq / dry-t. A 'Delete tour' button and an 'AI advisor' button are also present.

Real road polyline

GeoJSON LineString stored permanently — exportable for QGIS/Google Earth.

Immutable km

Distance frozen at save time. Provider updates do not affect saved tours.

Live GHG preview

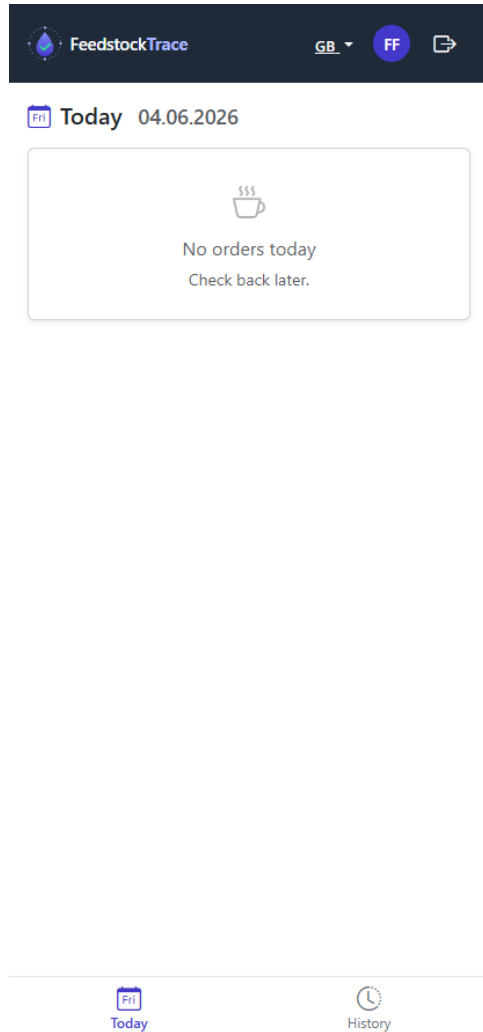
e_{td} in kg CO₂eq/dry-t computed instantly — final value on tour completion.

Pickups in sequence

Each stop linked with position number — the order the driver executes it.



Driver app — what happens in the truck



Tour mode

Stops in optimized order, navigation jump to Google Maps for routing.



Progress tracking

Per-stop completion status — driver sees what's next, dispatcher follows live.



GPS stamp

Every pickup with GPS coordinates and accuracy. Audit-proof.



Fuel entry

On tour close: liters refuelled → Method 1 GHG calculation goes live.



Issue reporting

Container empty, CP closed, access blocked — structured documentation.



Pickup recording — five pieces of evidence

The driver captures everything the auditor will later ask for.

FeedstockTrace GB FF

← Back

Record pickup
Restaurant Lindenhof

Quantities

Material
UCO — UCO — Gastronomie

Quantity *
120,5

Unit
kg | l

Impurities %
1,2

Impurities note
minor food residue, filtered

Comment
Regular weekly pickup. Container clean.

Photos *

Today History

FeedstockTrace GB FF

Open webcam (desktop demo)

UCO Container 200L
60% full - ready for transfer

Storage location
back yard - access clear

GPS

Capture position

52.5163, 13.3884 · ±12 m

Collection point signature *

Name *
Maria Schmidt

Role
Restaurant manager

Signature

Today History



Quantity + unit

kg or liters with impurity %, comment field for outliers.



Container photo

In-app camera (mobile) or webcam (desktop demo) — photo stamped to pickup.



GPS coordinates

Captured on click with accuracy in meters — proves on-site presence.



Signature at handover

Name + role of CP representative, drawn signature stored as PNG.



Self-declaration link

Snapshot of valid SD attached at moment of pickup (ISCC EU 203 §4.2).



Collection Evidence Report — the auditor view

One page per pickup. Every audit-relevant data point in one glance — and one click to PDF.

FeedstockTrace Olivia Office Logout

Collection Evidence Report Download PDF

PO-2026-0023 · completed by Frank Fahrer

Pickup evidence

Origin site	Restaurant Lindenhof
Material	Used Cooking Oil (UCO)
Quantity	134.5 kg
Collected at	17 May 2026, 14:32
GPS	52.5163, 13.3884 · ±12 m
Self-Declaration	signed at pickup

Photo & signature

UCO Container 200L
60% full · ready for transfer

Maria Schmidt — Restaurant manager

Handover signature stored separately for audit trail.

Audit completeness checklist

- ✓ origin identified
- ✓ material recorded
- ✓ photo present
- ✓ GPS present
- ✓ timestamp locked
- ✓ handover signature
- ✓ SD available
- ✓ PDF ready



Pickup data block

Origin site, material, quantity, timestamp, GPS — all from the driver capture.



Photo + signature

Container photo plus handover signature side-by-side, audit-stamped.



Completeness check

8-point checklist auto-evaluated. Green = audit-ready, red = action needed.



Download PDF

One click to a printable audit pack — handover to auditor or buyer.



Collection points — proof they exist

FeedstockTrace GB EN Olivia Office Log out

OPERATIONS

- Dashboard
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- Tours

MASTER DATA

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- Customers
- Materials

MASS BALANCE & STOCK

- Mass Balance
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- Conversion factors

DOCUMENTS & DECLARATIONS

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- GHG Calculator
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COMING SOON

- Live GPS Tracking Soon

Collection Points

Collection points correspond to ISCC "Points of Origin" (ISCC EU 203 §3.4.5).

+ New collection point

Search by name, code, city or zip... Search

Code	Name	Address	Type	Effective status	Volume status	Active	Search
CP-0004	Currywurst Tegel	Alt-Tegel 30 13507 Berlin	Restaurant	Valid	●	✓	👁️ ✎
CP-0002	Hotel Brandenburger Hof Brandenburger Hof Hospitality KG	Eislebener Straße 14 10789 Berlin	Hotel	Valid	●	✓	👁️ ✎
CP-0003	Mensa TU Berlin studierendenWERK Berlin AöR	Hardenbergstraße 34 10623 Berlin	Canteen	Valid	●	✓	👁️ ✎
CP-0001	Restaurant Lindenhof Lindenhof Gastro GmbH	Friedrichstraße 50 10117 Berlin	Restaurant	Valid	●	✓	👁️ ✎
CP-0008	Bratwurstmanufaktur Wandsbek	Wandsbeker Marktstraße 60 22041 Hamburg	Industry	Sign @ Pickup	●	✓	👁️ ✎
CP-0005	Hotel Hafenblick Hafenblick Hotelbetrieb GmbH	An der Alster 72 20099 Hamburg	Hotel	Valid	●	✓	👁️ ✎
CP-0006	Restaurant Schoonerhus	Reeperbahn 152 20359 Hamburg	Restaurant	Missing	●	✓	👁️ ✎
CP-0007	Werkskantine Finkenwerder Nordkost Catering GmbH	Kreetslag 10 21129 Hamburg	Canteen	Expired	●	✓	👁️ ✎
PALM_JOHOR_01	Tropic Palm Estate — Johor Tropic Palm Plantations Sdn Bhd	Jalan Kota Tinggi 81900 Kota Tinggi, Johor	Industry	Missing	●	✓	👁️ ✎

AI advisor

Self-declaration

Per CP: ISCC-compliant declaration with validity + status workflow.

Existence proof photos

Exterior, signage, UCO storage — with EXIF GPS. Auditor sees: real.

Google Earth / Street View

One click — verify the address from satellite or street level.

ISCC blocklist check

Semi-annual review cycle with reminder traffic-light per CP.



GHG — three methods, all automatic

RED-III compliant per tour and per pickup. You pick the method while planning — system handles the rest.

Method 1 — Detailed

Premium: actual fuel consumption

$$e_{td} = (\text{liters} \times EF) / \Sigma \text{ kg}$$

When the truck has tank sensors or the driver enters refuelled liters.

Method 2 — Efficiency

Standard: $\eta \times$ tonne-kilometers

$$\text{Fuel} = D \times \eta \times EF$$

For any truck with known MJ/tkm efficiency — default for most tours.

DDV — Default Value

Standard value, no calculation

$$e_{td} = \text{ISCC default}$$

When you go with the ISCC standard value — no calculation needed.



Complete ISCC EU 205 formula — every term covered

$E = e_{ec} + e_l + e_p + e_{td} + e_u$ — FeedstockTrace handles all five. No external calculations, no Excel hand-stitching.

$E_{total} =$

$e_{ec} + e_l + e_p + e_{td} + e_u$

ISCC EU 205 §4.3

- e_{ec}** **Extraction / cultivation** = 0
UCO is residue/waste (RED III Annex IX)
- e_l** **Land-use change** = 0
No agricultural origin
- e_p** **Processing** **AUTO**
Mini-calculator: electricity + heat + chemicals
- e_{td}** **Transport & distribution** **AUTO**
Tour pool — worst-case or weighted average
- e_u** **Use phase** = 0
Biogenic combustion (RED III)

Processing emission factors

Master data for the e_p mini-calculator. Pre-seeded defaults from IEA / UBA / IR 2022/996 / ecosystem — you can add your own factors (e.g. company-specific electricity contracts or supplier data sheets).

Electricity (per country + year) 10 | Heat (per fuel type) 8 | Chemicals 5

Country	Year	kg CO ₂ -eq / kWh Source	Active
AT	2026	0,1588 Umwelbundesamt AT 2024 (high renewables share)	Active
CN	2026	0,5558 IEA World Energy Outlook 2024 (China grid mix)	Active
CN	2025	0,5810 IEA 2023	Active
DE	2026	0,4200 Umwelbundesamt 2025 (German grid mix lifecycle)	Active Default
DE	2025	0,4340 Umwelbundesamt 2024	Active
EU	2026	0,2350 IEA average EU-27 2024	Active
FR	2026	0,0580 RTE 2024 (nuclear-dominated)	Active
NL	2026	0,3850 CBS 2024	Active
NO	2026	0,0240 NVE 2024 (hydro)	Active
PL	2026	0,7600 MCBZE 2024 (coal-heavy)	Active

DE 2026 0,4200 e.g. UBA 2025 / IEA 2024 / supplier data sheet + Add

① Audit requirement: factors are deactivated, not deleted — historical SDs must be able to reference the EF that was valid at the time.

Master-data — IEA / UBA / IR 2022/996 defaults



Tour-level selection

Pick which tours flow into each SD — granular audit control.



Period-level e_p

Operator records e_p once per quarter, applies to every SD of that period.



Built-in calculator

Electricity, heat, chemicals — 23 EU/IR-2022/996 defaults pre-seeded.



Source-cited audit

Every factor links to its regulatory clause in the SD PDF.



What-if calculator — quantify route optimization

Compare two scenarios side-by-side. See the GHG impact of route, truck, fuel changes — before you commit.

FeedstockTrace GB EN Olivia Office Log out

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COMING SOON

- Live GPS Tracking Soon

GHG Calculator (transport emissions)

Compare two hypothetical tours side-by-side. Inputs and formulas follow ISCC EU 205 §4.3.4 — the same engine that drives the per-pickup calculator and Sustainability Declarations.
All factors carry an audit source attribution (visible in the Sustainability Declaration PDF).

Presets: 50 km round trip 150 km round trip 400 km long-haul Quick presets for demos — they pre-fill scenario A with typical values.

Scenario A Reset scenario

Label (optional)
Today's tour

Calculation method
Method 2 — efficiency (tonne-km × η)

Fuel: DIESEL — Diesel (Tankdiesel B7) Truck type: TRUCK40_LIQUIDS

Pickup mass (kg, dry): 500 Total distance (km): 100

RESULT

8,33

e_{td} (kg CO₂eq per dry tonne)

4,17	4,14	0,03
Total CO ₂ eq (kg)	Fuel share (kg)	Exhaust share (kg)

Fuel: DIESEL · Truck: TRUCK40_LIQUIDS (η=0.87 MJ/t·km) · Method 2 efficiency

Scenario B Copy A → B

Label (optional)
Optimised tour

Calculation method
Method 2 — efficiency (tonne-km × η)

Fuel: DIESEL — Diesel (Tankdiesel B7) Truck type: TRUCK40_LIQUIDS

Pickup mass (kg, dry): 800 Total distance (km): 60

RESULT

5,00

e_{td} (kg CO₂eq per dry tonne)

4,00	3,97	0,03
Total CO ₂ eq (kg)	Fuel share (kg)	Exhaust share (kg)

Fuel: DIESEL · Truck: TRUCK40_LIQUIDS (η=0.87 MJ/t·km) · Method 2 efficiency

-40 %

e_{td} saving when route optimized 100 km → 60 km

Both ISCC methods

Method 1 + Method 2, identical math as the production calculator.

Reference data

Pre-filled IR 2022/996 Annex IX defaults — editable in admin.

Audit Excel export

Same 5-sheet workbook auditors get — for any sandbox calculation.



Mass balance + tank — the full flow

ISCC-EU 203 §4.4: every kg accounted for, from pickup to tank to delivery.

FeedstockTrace GB EN Olivia Office Log out

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Q2-2026 Open 01.04.2026 – 30.06.2026 ← Back Excel export

OPENING CREDITS
0,00 kg

INPUTS (GROSS)
1.546,75 kg
before treatment

INPUTS (NET)
1.546,75 kg
with conversion factor

AVAILABLE
1.546,75 kg
before outputs

Processing emissions e_p (ISCC EU 205 §4.3.5) e_p = 10,145 kg CO₂eq/dry-t

Electricity, heat, chemicals etc. used in the treatment step at the collector. Record once per period — applies automatically to all SDs of the period.

e_p value: 10,145 kg CO₂eq / dry-t

Calculation source: e_p computed via processing calculator: Electricity DE 2026: 1000.000 kWh × 0.4200 kg CO₂eq/kWh = 420.000 kg CO₂eq

Audit trail — how was this value derived? (electricity bill, gas bill, factor source). Save e_p

changed by Olivia Office - on 27.05.2026 02:09 Open mini calculator

Mass balance ledger Opening + chronological movements + closing per ISCC EU 203 §4.4.2

Date	Type	Ref	Description	Change (kg)	Balance (kg)
01.04.2026	Opening	—	Credits carried over from previous period	—	0,000 kg
17.05.2026	In	CP-0001	Restaurant Lindenhof — Used cooking oil (UCO)	+134,500	134,500 kg
17.05.2026	In	CP-0005	Hotel Hafenblick — Used cooking oil (UCO)	+92,250	226,750 kg
17.05.2026	In	CP-0002	Hotel Brandenburger Hof — Used cooking oil (UCO)	+1.320,000	1.546,750 kg
25.05.2026	Out	SD-2026-0001	Biodiesel Producer GmbH · TEST01	-100,000	1.446,750 kg
25.05.2026	Out	SD-2026-0002	GreenChem Refinery · TEST02	-10,000	1.436,750 kg

AI advisor

FeedstockTrace GB EN Olivia Office Log out

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Sammeltank Halle 1 TANK-0001 · UCO — UCO — Gastronomie ← Back Edit

CURRENT STOCK
1.446,750 kg
5.8 % of 25,000 kg

Manual stock adjustment (inventory)
Set the tank to the measured physical amount. The difference is logged as a manual_adjust event — please document the reason (evaporation loss, measurement error, transfer, etc.).
New stock * 1446,750 kg Reason for adjustment * Adjust stock

Stock movement log

When	Type	Source	Change (kg)	Balance (kg)	Notes	By
25.05.2026 02:25	Output	output:1	-100,000	1.446,750	TEST01	Olivia Office
17.05.2026 01:42	Input	pickup:3	+1.320,000	1.546,750		Frank Fahrer
17.05.2026 01:42	Input	pickup:1	+134,500	134,500		Frank Fahrer
17.05.2026 01:42	Input	pickup:2	+92,250	226,750		Selma Sammler

Notes: Haupttank für UCO-Anlieferungen (Demo). AI advisor

Period ledger

Opening balance + chronological deltas — ISCC §4.4.2 compliant.

Live tank levels

Per tank: current kg, % full, booking log — pickup, transfer, output.

Period closure

Submit for review → closed = immutable. Carry-over to next period.



Sustainability declarations — sell the proof

Every UCO delivery to a biodiesel producer needs an ISCC sustainability declaration. Without SD: no sale.

FeedstockTrace GB EN Olivia Office Log out

Sustainability Declarations
Issued SDs (CP → recipient). The downstream document per ISCC EU 203 §3.3.2 — not to be confused with the upstream Self-Declarations from points of origin.

Search by SD number, recipient cert or customer name... Search

SD number	Issued	Customer	ISCC certificate number	Material	Quantity	Period	GHG
SD-2026-0002	25.05.2026	GreenChem Refinery CUST-0003	ISCC-EU-DE-3456789	Palm oil mill effluent (POME)	10,000 kg	Q2-2026	Actual
SD-2026-0001	25.05.2026	Biodiesel Producer GmbH CUST-0001	ISCC-EU-DE-1234567	Used cooking oil (UCO) 20 01 25	100,000 kg	Q2-2026	DDV

AI advisor



Customer + ISCC

Buyer name and ISCC certificate ID baked into the declaration.



Three GHG modes

Default value (DDV) · pool-aggregated from period · or manual input — per ISCC §3.3.3.



Sources cited

Every factor (fuel, transport, processing) shows its source in the SD-PDF.



PDF + JSON export

Customer gets PDF; you get JSON for downstream system integration.



Immutable archive

Once issued: signed, timestamped, locked. Re-issue = new version, full history.



Audit export & UDB — ISCC + EUDR in one place

Two click-to-download exports: ISCC audit Excel + EUDR-ready UDB CSVs.

GHG Calculator (transport emissions)

Compare two hypothetical tours side-by-side. Inputs and formulas follow ISCC EU 205 §4.3.4 — the same engine that drives the per-pickup calculator and Sustainability Declarations. All factors carry an audit source attribution (visible in the Sustainability Declaration PDF).

Preset: 50 km round trip | 150 km round trip | 400 km long-haul

Quick presets for demos — they pre-fill scenario A with typical values.

Scenario	Label (optional)	Calculation method	Fuel	Truck type	Pickup mass (kg, dry)	Total distance (km)	RESULT (kg CO ₂ eq per dry tonne)
Scenario A	Today's tour	Method 2 — efficiency (tonne-km × η)	DIESEL — Diesel (Tankdiesel B7)	TRUCK40_LIQUIDS	500	100	8,33
Scenario B	Optimised tour	Method 2 — efficiency (tonne-km × η)	DIESEL — Diesel (Tankdiesel B7)	TRUCK40_LIQUIDS	800	60	5,00

Scenario A Results:
 Total CO₂eq (kg): 4,17 | Fuel share (kg): 4,14 | Exhaust share (kg): 0,03
 Fuel: DIESEL - Truck: TRUCK40_LIQUIDS (η=0.87 MJ/t·km) · Method 2 efficiency

Scenario B Results:
 Total CO₂eq (kg): 4,00 | Fuel share (kg): 3,97 | Exhaust share (kg): 0,03
 Fuel: DIESEL - Truck: TRUCK40_LIQUIDS (η=0.87 MJ/t·km) · Method 2 efficiency

GHG Audit Excel — 5 sheets

UDB Export

CSV exports for the EU Union Database for Biofuels (Art. 31 RED III, IR 2022/996 Art. 18).

Real API integration with the Union Database requires operator credentials approved by your auditor. These CSV exports are the audit-replay artefacts and can be uploaded manually into the UDB web interface.

Points-of-Origin list

Required by ISCC EU 203 §3.4.7 — the auditor checks that this list is registered in the UDB and that all signed Self-Declarations are on file.

- Address + ISCC point type per CP
- Effective Self-Declaration status + valid_until
- Indicative volumes + UDB registration timestamp

[Download CSV](#)

Transactions

Outputs (CP → recipient) within a date range with all sustainability characteristics (per IR 2022/996 Art. 18).

Date from: 01.04.2026 | Date to: 30.06.2026

[Download CSV](#)

Audit notice

Once your real ISCC certificate number is configured in .env and your UDB account is active, the same CSV can be uploaded via the official UDB web interface. The CSV is UTF-8 with BOM so Excel reads German umlauts correctly.

UDB CSV — EU biofuels database



Land-use evidence on every SD — ISCC Principle 1

For agricultural residues (plantation EFB, fronds, trunks) each Sustainability Declaration carries a frozen land-use-change verdict.

The screenshot displays the FeedstockTrace interface for a Sustainability Declaration (SD-2026-0003). The interface includes a sidebar with navigation options like Dashboard, Pickup Orders, and Sustainability Declarations. The main content area shows a progress bar for the audit process, a table of certificate details (ISCC-Zertifikat-Nr., Material, Menge, THG), and a section for Land-Nutzungs-Evidenz (ISCC Principle 1) which is marked for auditor review. A PDF preview of the declaration is also visible at the bottom.

Real SD — palm plantation flagged on actual Hansen forest-loss data

Plantation polygon (KML/KMZ) checked against satellite forest-loss (Hansen / Global Forest Watch)

Cut-offs built in: ISCC Principle 1 (Jan 2008) and EUDR (Dec 2020)

Verdict + full audit source frozen onto the SD at issuance — and into the PDF

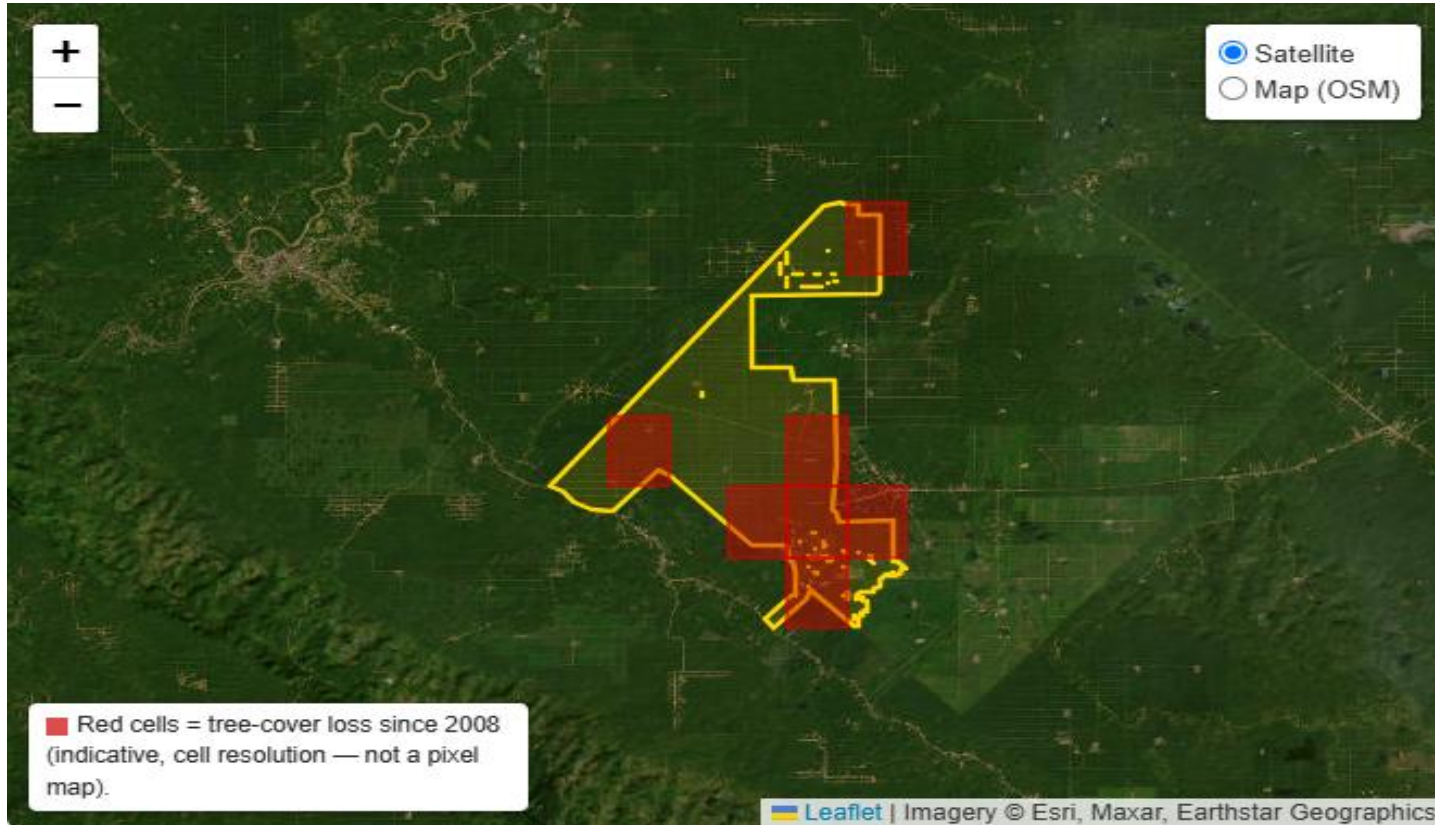
Waste & processing residues auto-marked “not required” (RED III Art. 29(1) exempt)

“Flag for auditor review” — decision-support, never an automated compliance verdict



Land-use-change heatmap — see exactly WHERE

The boundary is gridded and every cell checked against satellite forest-loss — the hotspots are painted red, on the live map and in the audit PDF.



Real palm estate (anonymised) — red = tree-cover loss since 2008

Red cells localise WHERE loss happened — not just how much

Per-cell satellite check (Hansen / Global Forest Watch), parallelised → seconds

Same heatmap in the PDF on a Google / Esri satellite image — auditor-ready

Handles real-world geometry: tens of thousands of vertices, hundreds of enclaves deducted

ISCC P1 (2008) flags it · EUDR (2020) clears it · open in Google Earth (KML)



Audit-ready land-use-change report (PDF)

One click turns the analysis into a dated, reproducible PDF for the certification auditor — satellite evidence, verdict and full method.

Land-Use-Change Assessment

ISCC Principle 1 · RED III Art. 29(3)–(5) · decision-support for the certification auditor

Glatow & Associates — FeedstockTrace I
ISCC EU ISCC-EU-DE-PLACEHOLDER-
Generated 2026-06-07 1

1. Origin (collection point / first gathering point)

Name **Tropic Palm Estate — Johor (PALM_JOHOR_01)**

Location **Kota Tinggi, Johor, MY · pin 1.7350000, 103.9000000**

Feedstock material **Palm EFB (Plantage/Feld) · land-use scope: **agri_residue****

Recorded areas **3 polygon(s)**

Aggregate verdict **FLAG FOR AUDITOR REVIEW**

2. Per-area assessment

Tropic Palm Estate — Block C



Net area **371.59 ha**

Vertices **4**

Bounding box **lat 1.7400000...1.7550000, lng 103.8900000...103.9100000**

Source file **estate-block-c.kml (KML)**

Source SHA-256 **87d3e7c4b83593ce8c9d072718c591a4437da8cb6bd0c2d55d8be5772889e9c1**

Recorded **Olivia Office · 2026-06-06 03:21**

Satellite (Google) — yellow = boundary, red = LUC hotspot cells. Authoritative geometry = source file + hash below.

FLAG FOR AUDITOR REVIEW ISCC_P1 · cut-off 2008-01-01 · tree-cover loss after cut-off: 1.31 ha · dataset umd_tree_cover_loss/latest · canopy ≥ 30% · checked 2026-06 03:51

Loss year (≥ cut-off)	2009	2012	2016	2017	2018	2019	2021
Area (ha)	0.15	0.15	0.08	0.62	0.08	0.15	0.08

Baumbedeckungs-Verlust von 1.31 ha ab 2008 erkannt (Hansen). Zur Auditor-Prüfung markiert — KEINE automatische Bewertung. Verlust ≠ zwingend Entwaldung (Erntezyklen möglich); mit TMF/historischen Aufnahmen + Dokumenten korrobrieren.

LUC hotspots (grid localization): 10 cells(s) with loss · 1.31 ha · grid 6×6 (36 cells queried inside the polygon) · since 2008. Red squares on the outline mark these cells — indicate localization at cell resolution, not a pixel-accurate deforestation map.

Per-area verdict: “flag for auditor review” / “no flag” — never an automated pass

Satellite image with the red hotspot cells embedded right in the report

Tree-cover loss per year + dataset, version, canopy threshold, source SHA-256

Cut-offs, methodology & limitations spelled out — reproducible by the auditor

Generated on demand, frozen onto the Sustainability Declaration at issuance

Real PDF output — ISCC Principle 1 / RED III · decision-support for the auditor

Start a pilot

30 days. One tour per week. You see the audit Excel with your own data.

What you need as a customer:

- A list of your collection points (CSV is fine)
- One truck with efficiency data
- One driver with a smartphone

Glatow & Associates

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