



Union Database for Biofuels (UDB)

Communication to Schemes & Member States – November 22

Agenda

- Background to UDB
- System exchange of trades to UDB
 - eDelivery – infrastructure setup (Technical)
 - eDelivery – services
- Q&A (Voice only)

Background: Union Database for Biofuels

- **Legal Basis:** Article 28 (2) and (4) of the Renewable Energy Directive (RED II)
- **Scoping study for the Union database (UDB)** by Navigant on behalf of European commission: starting point of our reflection for the development of the UDB
- **Finalisation of the UDB concept**, based on the options & recommendations in the scoping study and further fact- finding by the by ENER/ IT team of the European Commission with pilot schemes, certification bodies, economic operator & industry experts
- **Implementing Act on certification and rules for voluntary schemes:** Support the development of the UDB by stipulating legal obligations for economic operators, certification bodies, voluntary schemes and member states in accordance with the RED II obligations

Scope

- Biofuels covering all liquid & gaseous fuels including RFNBO & Recycled Carbon fuels
- Excludes solid Biomass fuels
- Reporting obligation from collection point or Gathering point

1.1 Onboarding & Transition (updated)

Milestones for Union Database – Live environment	Value chain	Oct 22 – Dec 22	Jan 23 – Mar 23	Apr 23 – Jun 23	Jul 23 – Sep 23	Oct 23 – Dec 23	Jan 24 - Mar 24
¹ Publish/begin communication to the VS / MS / market	All	21 st Nov 22					
² Publish Data Harmonization to the market	All	12 th Dec 22					
Start: Onboarding of VS, EO, 3 rd party DBs on UDB	All		16 th Jan 23				
Start: Gas – Onboarding of DSO/TSO/Suppliers on UDB	Gas		15 th Mar 23				
Start: Liquid fuel value chain - Initial stock registration	Liquid			3 rd Apr 23			
Start: Registration of transactions	Liquid			2 nd May 23			
Start: Gaseous value chain - Initial stock registration	Gas			2 nd May 23			
Start: Registration of transactions (System exchange only)	Gas			1 st Jun 23			
Start: Registration of transactions (+ Online)	Gas					2 nd Oct 23	
Start: GO integration live ³	Gas					TBC ³	

¹ How to's for initial steps, support to Voluntary schemes & Member state Databases

² Data Harmonization: Common nomenclature / codes to be used for universal usage & adoption

³ Subject to readiness of GO issuers & National registries

These dates are **not** deadlines but the availability of the application at various stages considering the complexity of the exercise with aim to be fully operational by Q4 23

If necessary DG ENER may set a deadline

1.2 Onboarding status as of 28/Feb/23

Onboarding status as visible to UDB-IT team.

👍 (Thumbs Up) for specific progress made so far!

Scheme	Status	Actions needed to complete Economic Operator onboarding	Action needed to enable system exchange
ISCC	<ul style="list-style-type: none"> About 5000+ EO have been onboarded. These EO have already been invited 👍 Certificates are being added by VS ISCC confirmed that it will act as 3rd party Database/Service Provider to support EOs 👍 List of certification bodies provided to UDB team 👍 List of missing countries for NTR Type resolved based on request 👍 	<p>Following information needs to be addressed by EOs as per Voluntary schemes feedback (Data Quality)</p> <ul style="list-style-type: none"> NTR ID not complete for all EOs Certificate details are not complete 	<ul style="list-style-type: none"> For EOS requiring direct access to UDB, VS needs to nominate an Access point service provider. This is currently a blocker for Neste, BP etc.
2BSVS	<ul style="list-style-type: none"> About 660 economic Operators are in the process of being onboarded. <ul style="list-style-type: none"> A valid NTRD ID is seen! 👍 Bioledger is nominated as 3rd party Service provider 👍 Bioledger is nominated as Access point provider 👍 	<ul style="list-style-type: none"> Complete the onboarding process for all EOs Improve Data Quality like duplicate certificates 	<ul style="list-style-type: none"> Continue testing with UDB Team 👍
KZR INIG	<ul style="list-style-type: none"> Scheme onboarded 327 EO added into UDB 	<ul style="list-style-type: none"> Certificates to be added & EOs to be invited Complete the onboarding process for all EOs Data Quality to be assessed by UDB Team 	<ul style="list-style-type: none"> Nominate 3rd party Service provider to support EOs (if required by EO) Nominate access point provider to directly access UDB for EOs (if required by EO)
AACS	<ul style="list-style-type: none"> 114 EOs & Certificates added Missing CBs requested & added 👍 	<ul style="list-style-type: none"> Invite EOs if the data quality is good Data Quality to be assessed by UDB Team 	<ul style="list-style-type: none"> Nominate 3rd party Service provider to support EOs (if required by EO) Nominate access point provider to directly access UDB for EOs (if required by EO)
RSB	<ul style="list-style-type: none"> Onboarding started (8 EOs & 4 certificates) Bioledger is nominated as 3rd party Service provider 👍 Bioledger is nominated as Access point provider 👍 	<ul style="list-style-type: none"> Complete the onboarding process for all EOs Data Quality to be assessed by UDB Team 	<ul style="list-style-type: none"> Continue testing with UDB Team 👍

1.21 Onboarding : Responsibilities of VS

1. Send to UDB IT Team: « Voluntary Scheme metadata » via email to Functional Mailbox by 19th Dec 2022: [Format is available here](#)
2. [Register Certification body entity & invite lead users of the certification body.](#) (from 16th Jan 2023 on Live environment)
3. Onboard Economic Operators on Live environment
 - [Register Economic Operators Organizations](#) on UDB starting 16th Jan 2023
 - [Invite Lead users](#) of the economic operators to register their access to the UDB application
 - [Add Certificates](#) of their Economic Operators starting 16th Jan 2023
 - Onboard EOs with own IT system by authorizing access of VS/3rd party Service providers owned End-point to EOs (If in case the EO does not want to use 3rd party SP)
4. Communication and Training to Economic Operators

Notes:

As a one time facility, a VS can perform [bulk upload of Organization & Certificates to UDB](#)

Certification body users will have access to features starting Q2 2022

1.22 Onboarding : Responsibilities of MS

- Communicate the schedule & information (this package) to national schemes & market (optional)
- Member states to provide Lead user details in order to add MS Lead User on Union Database. Please send to ***** by 19th December 2022
 - Responsibility of MS lead user is to administer the access to other users within the Member state
 - Add the following type of entities on Union Database starting 16th Jan 2023 on Live environment
 - Distribution Systems Operator (DSO) entity for Gas value chain within your Member state
 - Transmission Systems Operator (TSO) entity for Gas Value chain within your Member state
 - Biofuel Suppliers (Gas value chain)

1.23 Onboarding : Responsibilities of EO

- Economic Operators (EO) shall collaborate with their Voluntary schemes (VS) to ensure the organization & certificate is registered on UDB by 28th February 2023
 - Accept invitation for access to UDB sent by Voluntary scheme and validate the access
 - EO Lead Users can invite users within its own organization
 - Verify information on UDB (organization & certificate details or user access) & align with VS for any errors
 - If the EO would like to send trade transactions to UDB through their IT systems; Contact VS to establish access to the eDelivery access point nominated by VS or 3rd party Service provider.
- EO shall register initial stocks before registering trades (Not mandatory)
- EOs to registering transactions for the stocks traded or processed (converted/produced)

1.31 Training Approach

1. Training & support from UDB team - EC- DG ENER shall facilitate to VS, 3rd party SP and MS as per the Training schedule & adhoc sessions as necessary
2. Training to Economic Operators shall be facilitated by Voluntary schemes
3. User manuals, video recordings shall be provided by UDB IT Team for self learning / preparation and will be accessible publicly (for Economic Operator usage)
4. Playground to explore the application will be available on request (for EO, VS can provide access in acceptance environment).

1.33 Support responsibility Matrix

Responsibility matrix for support to (Columns), activities (rows) by Responsible owners

Support to	Voluntary Schemes	Certification Body	Economic Operator	3rd party Service Provider	Member State	DSO/TSO/ Supplier (Gas)
Register & Manage entity	UDB-IT	VS	VS	VS	UDB-IT	MS
User access management	UDB-IT	VS	VS	UDB-IT	UDB-IT	MS
Training	UDB-IT	VS	VS	VS / UDB-IT	UDB-IT	VS
Information management & support via 3rd party Service provider	3rd party SP	NA	3rd party SP	NA	NA	3rd party SP
UDB Application Availability support	UDB-IT	UDB-IT	UDB-IT	UDB-IT	UDB-IT	UDB-IT
eDelivery	UDB-IT	NA	UDB-IT	UDB-IT	UDB-IT	UDB-IT
Who can send new feature requests to UDB?	Direct Request to UDB-IT via FMB	Via Voluntary Scheme	Via Voluntary Scheme	Via Voluntary Scheme	Direct Request to UDB-IT via FMB	Direct Request to UDB-IT via FMB

Responsible

UDB-IT: is a reference to IT Support from EC DG ENER comprising of UDB-IT Application team, eDelivery support team & other infrastructure support services

VS: Refers to Voluntary scheme who will be the single point of contact for user or functional support to Economic operators related to the data/information on UDB

MS: Refers to Member states who is responsible to manage entities & user access within their own member states.

1.41 Access to test Application

- For testing and to perform User Acceptance testing
- EC Admin invites VS Lead User(s)
- VS Lead User(s) sends invitation to (VS User, EO Lead User) via activation link in email
- EO Lead User can also invite EO User(s)
- Acceptance of invitation directs the user(s) to the login page of the test environment - <https://webgate.acceptance.ec.europa.eu/udb/> (Invitation is valid for 30 days)

1.43 Information on eDelivery for Voluntary Schemes, Service Providers & Member states

The below links provide information related to eDelivery a secure exchange infrastructure to be used for exchange of information between IT Systems of Voluntary Schemes, Service Providers or Member States. For Economic Operators who needs such information exchange need not setup their own access point but connect to the access point nominated by Voluntary Scheme / of the Service Provider.

1. [e-Delivery: Request to join - UNION Database - EC Extranet Wiki \(europa.eu\)](#) – On Boarding Procedure
2. [UDB Exchange Model - UNION Database - EC Extranet Wiki \(europa.eu\)](#) – Exchange Model XSDs
3. [Field Specifications - UNION Database - EC Extranet Wiki \(europa.eu\)](#) – Exchange Model Field Specifications
4. [UDB Exchange XML Requests - UNION Database - EC Extranet Wiki \(europa.eu\)](#) – XML Sample for Request and Response
5. [Service Integration Readiness - UNION Database - EC Extranet Wiki \(europa.eu\)](#) – To check who is onboarded and which services tested
6. [eDelivery Integration - UNION Database - EC Extranet Wiki \(europa.eu\)](#) – eDelivery Intergration questions and answers

Economic Operator may use the Access point provider nominated by Voluntary scheme for direct connection to UDB.

*Mutual recognition of Service providers & Access point providers under review by DG ENER

2.1 Data Harmonization

Harmonized list of datasets will be made available on public wiki page for Economic Operator

- Company Identifier format for Economic Operator
- Codes for Voluntary schemes, Certification bodies
- Codes for raw materials, Annex IX reference and fuel, Scope of economic operator
- Maximum length for Proof of Sustainability, Certificates, Trade reference, Customs reference
- Format for Point of Origin or country codes

2.2 Key steps: Union Database perspective

1. Organisation setup (1.21: Responsibilities of VS)
2. Register Certificates (1.21: Responsibilities of VS)
3. Initial Stock registration (1.23: Responsibilities of EO)
4. Transactions registration types (1.23: Responsibilities of EO)
 1. [Point of Origin Buyer Transactions for Annex IX part A](#)
 2. [Point of Origin Buyer transaction for Annex IX part B](#)
 3. [Seller Initiated Transactions](#)
 4. [Material Processing or Conversion](#)

2.31 From the perspective of EO (Certified)

Pre-requisites to use UDB

- Voluntary schemes have registered your organization on UDB
- Certificate of your Organization is registered on UDB
- Lead user of your organization is invited by Voluntary scheme to UDB

Options or ways to report trades on UDB

1. Via direct online access to UDB via invitation from Voluntary scheme
2. Via 3rd party Service provider approved by Voluntary scheme
3. Direct exchange between UDB & EOs own IT System

Training & Support

- Training materials & videos for Use of online application: Public wiki page
- Training materials for direct exchange (via Voluntary scheme) will be available on request
- Training session & support for access is the responsibility of Voluntary scheme &/ 3rd party Service provider as maybe the case

2.32 From the perspective of EO (Non-certified)

Applicability

- EOs in liquid fuel value chain who are not part of a recognized Voluntary scheme nor notified national scheme

Access

- Access to UDB is not available

3 Abbreviations / Glossary

Short Name	Description
3rd party SP	Service Provider who supports an Economic Operator in digitising & transmitting required data to Union Database. SP is authorized & approved by a Voluntary Scheme
CB	Certification Body
DB	Database
DSO	Distribution system operator
e-Delivery	eDelivery is a building block that provides technical specifications and standards, installable software and ancillary services
ENER	DG ENER is responsible for the EU Commission's policies on energy
EO	Economic Operator
GO	Guarantees of Origin
GO Integration	Integration of information exchange between UDB system and network of systems related to Guarantees of Origin
High risk value chain improvements	Improving quality, accuracy & reliability of data collected
IT	Information Technology
MS	Member State authority / departments who need access to information on Union Database (does not refer to Member state Schemes)
MS integration customization	Specific requirements from MS (if applicable), Reporting / analytics
MSS	Member states schemes; Schemes recognized by European Commission
Onboarding	Registration of Company information, user accounts & certificates
Online access	Ability register trade transaction on Union Database application directly
RED II	Renewable Energy – Recast to 2030 (RED II)
Registering transactions	Sending the details of trade transaction to Union Database
RFNBO	Renewable Fuels of Non-Biological Origin
Stock registration	Feedstock/fuel stock volumes at the end of previous mass-balance / current held that is available for processing/trading
System Exchange	Machine readable information exchange between two IT systems
TSO	Transmission system operator
UDB	Union Database for Biofuels
VS	Voluntary Scheme
Wiki	A wiki (/ˈwɪki/ (listen) WIK-ee) is an online hypertext publication collaboratively edited and managed by its own audience, using a web browser.
XML	Extensible Markup Language (XML) is a markup language and file format for storing, transmitting, and reconstructing arbitrary data.

Thank you



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eDelivery