

EU ETS Compliance Forum Training events New developments in the EU ETS from 2024

Compliance Forum Training Events of 11 and 17 October 2024

This document comprises training material for competent authorities, national accreditation bodies and verifiers related to Monitoring, Reporting and Verification of greenhouse gas emissions and accreditation of verifiers under the EU Emission Trading System (EU ETS).

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1. LEGAL BACKGROUND

The legal basis for the Monitoring, Reporting and Verification (MRV) system is set in Directive 2003/87/EC. It was revised in 2023 by Directive (EU) 2023/958 on aviation and Directive (EU) 2023/959 for installations, maritime transport¹ and the "ETS2" for buildings, road transport and additional sectors. This has an impact on several Regulations, including Implementing Regulation (EU) 2018/2066 (Monitoring and Reporting Regulation, MRR) and Implementing Regulation (EU) 2018/2067 (Accreditation and Verification Regulation, AVR). The MRR was therefore revised twice, by <u>Commission Implementing Regulation</u> (EU) 2023/2122 of 12 October 2023 ("batch 1") and <u>Commission Implementing Regu</u> lation (EU) 2024/2493 of 23 September 2024 ("batch 2"). The changes include

- MRV rules for municipal waste incineration installations,
- MRV rules for the "ETS2" (EU ETS for buidings, road transport and other sectors),
- Extended rules for "zero-rating" of CO₂ emissions not only for biomass meeting the sustainability and GHG savings criteria of the Renewable Energy Directive (RED II), but also for RFNBOs², RCFs³ and SLCFs⁴.
- Extended rules for the transfer and transport of CO₂ and specific rules for CCU (Carbon Capture and Use) with regards to products in which CO₂ is permanently chemically bound;
- Introduction of the Monitoring Rules for non-CO₂ effects of aviation;
- Some changes for aircraft operators with regard to attributing fuels to flights and to fuels eligible for support under EU ETS Directive Article 3c(6).

Also the AVR was updated. Commission Implementing Regulation (EU) 2024/1321 of 8 May 2024 introduced e.g. the following changes:

- Verifier's role in checking the implementation of energy efficiency recommendations (for free allocation rules)
- Verification & accreditation in "ETS2"
- Improvement of existing AVR requirements
 - Amending one criterion for waiving site visits
 - Allowing virtual site visits for aviation under certain conditions
 - Clarification of the verifier's role in checking compliance with biomass fuels or aviation fuels with RED criteria

Another update of the AVR is expected soon, covering e.g. verification of non-CO₂ effects for aviation, the new zero-rating rules, and some new elements relevant for the free allocation to installations.

³ Recycled Carbon Fuels

¹ The MRV rules for shipping companies performing maritime transport activities now included in the EU ETS are provided by separate legislation (Regulation (EU) 2015/757 of the European Parliament and of the Council of 29 April 2015 on the monitoring, reporting and verification of carbon dioxide emissions from maritime transport, and amending Directive 2009/16/EC, <u>http://data.europa.eu/eli/reg/2015/757/2024-01-01</u> Therefore, maritime transport was only briefly covered during these training events.

² Renewable Fuels of Non-Biological Origin

⁴ Sustainable Low Carbon Fuels

2. OBJECTIVE

The M&R training events of 11 and 17 October 2024 aimed at informing competent authorities (CAs), National Accreditation Bodies (NABs) and verifiers on new and upcoming legislative developments and new areas that will affect their work:

- Providing an overview of legislative developments and plans for guidance;
- Providing an overview of MRV for municipal waste incinerations and ETS2;
- Providing information on plans for the monitoring of non-CO₂ effects of aviation;
- Explaining the rules for zero-rating of biomass, RFNBOs, RCFs, SLCFs, and in particular on the functioning of RED II certification schemes and the "Union Database";
- Providing an overview of new developments in aviation and maritime transport.

Target audience: Representatives from CAs, NABs and verifiers. For the second day which focussed on requirements, also certification bodies of RED II schemes were invited.

Please note that the training events took place before the relevant guidance documents were updated. As some changes in interpretation of the legal texts may result from further discussions during the development of the guidance, the guidance documents should be considered the more reliable source of information. Therefore, please check for the latest version in the Commission's website

https://climate.ec.europa.eu/eu-action/eu-emissions-trading-system-eu-ets/monitoring-reporting-and-verification-eu-ets-emissions_en#documentation

Check in particular for

- MRR Guidance documents 1, 2 and 3
- AVR Explanatory Guidance Document I

3. SET-UP OF THE TRAINING EVENT

3.1 Agenda of the training event of 11 October 2024

EU ETS COMPLIANCE FORUM Training Event - Day 1

Key changes in phase 4 on MRVA rules incl. Batch 2 MRR and AVR

Friday, 11 October 2024 Location: ONLINE

*MR and AV aspects in all the timeslots

10:00 – 10:15	Opening, welcome and introduction	DG CLIMA
10:15 – 11:15	Overview of key phase 4 changes in EU ETS *including CCS, CCU and CO ₂ transport *including biomass, RFNBO/RCF and SLCF	UBA/SQ
11:15 - 11:30	Break	
11:30 – 12:00	Overview of key phase 4 changes in EU ETS *continued	UBA/SQ
12:00 – 12:30	ETS2 impact on ETS1 MRV	UBA/SQ
12:30 - 14:00	Lunch break	
14:00 – 14:30	New rules on allocation and impact on ALC MRVA	UBA/SQ
14:30 – 15:00	MRVA in maritime sector	DG CLIMA
15:00 – 15:15	Break	
15:15 – 16:00	MRV of non-CO2 aviation effects	DG CLIMA
16:00 – 16:30	New rules on monitoring and reporting of alter- native and eligible aviation fuels	UBA/SQ/DG CLIMA
16:30 – 16:45	Wrap up and close of training	DG CLIMA

3.2 Agenda of the training event of 17 October 2024

EU ETS COMPLIANCE FORUM Training Event – Day 2

New MRV rules on biomass, RFNBO/RCF and SLCF in EU ETS

Thursday, 17 October 2024 Location: ONLINE

* MR and AV aspects in all the timeslots

* All sessions include a possibility for Questions and answers at the end.

Opening, welcome and introduction	DG CLIMA
New MRR requirements for biomass, RFNBO/RCF and SLCF	Umweltbundesamt
Break	
RED II – Certification systems: Requirements, recognition of national and voluntary schemes	DG ENER
Lunch break	
New rules on biomass, RFNBO/RCF and SLCF - verification & accreditation	SQ Consult
Demonstrating compliance with REDII cri- teria in the Union Database (UDB)	DG ENER
Break	
Case studies on new rules - Checking process and procedures - Common challenges - Best practices on demonstrating com- pliance with RED criteria	MS CAs
Wrap up and close of training	DG CLIMA
	Opening, welcome and introduction New MRR requirements for biomass, RFNBO/RCF and SLCF Break RED II – Certification systems: Requirements, recognition of national and voluntary schemes Lunch break New rules on biomass, RFNBO/RCF and SLCF - verification & accreditation Demonstrating compliance with REDII cri- teria in the Union Database (UDB) Break Case studies on new rules - Checking process and procedures - Common challenges - Best practices on demonstrating com- pliance with RED criteria Wrap up and close of training

Annex: Presentations





Overview of MRR revisions in batches

Batch 1

- Monitoring and reporting rules for municipal waste incineration installations
- Monitoring and reporting for ETS 2
- Improvement of existing MRR rules
 - > Increase in reference price in Article 18 MRR
 - > Changes in intervals of improvement reports
 - > Clarification of requirements in Annex IV MRR
 - Revisions in Article 39/48 MRR on biomass mass balance
 - Revisions in Article 43 MRR to avoid double counting
- Amendments in MRR rules on aviation
 - Specific provisions on biofuels and eligible
 ³ aviation fuels and alignment with CORSIA

Batch 2

- Monitoring and reporting of RFNBO/RCF and Synthetic Low Carbon Fuels
- MRV of transport of CO₂ and CCU
- Amendments in Article 49 and Annex IV MRR to align with new definition of emissions
- Clarification of biomass mass balance rules and revisions in Article 43 MRR for CEMS
- Specific rules on biofuels, alternative aviation fuels and eligible aviation fuels
- Monitoring and reporting of non-CO₂ aviation effects



Overview of AVR revisions in batches

Batch 1

- Verifier's role in checking the implementation of energy efficiency recommendations
- Verification & accreditation in ETS 2
- Alignment of Annex I AVR on Accreditation scope with revised Annex I Directive
- Improvement of existing AVR requirements
 - Amending one criterion for waiving site visits
 - Allowing virtual site visits for aviation under conditions
 - Clarification verifier's role in checking compliance biomass fuels/ aviation fuels with RED criteria
 - Alignment with MRR
 - Minor clarifications

Batch 2

- Verifier's role in verifying achievement of milestones and targets laid down in CNP
- Alignment with MRR
 - Verifier's checks related to RFNBO/RCF and SLCF
 - Verifier's checks related to rules on alternative aviation fuels and eligible aviation fuels
 - Verifier checks related to transport of CO₂ and mixed source streams
- Verifier's checks related to CCU
- Verification of non-CO₂ aviation effects
- Minor improvement of existing AVR rules



Update of MRR guidance

- New guidance on ETS2 & templates
- Update of existing guidance
 - How to deal with MWI specific issues
 - New rules on biomass and other zero-rating
 - Explanation of transport of CO₂, (permanent) CCU
 - ✓ Minor issues such as IR intervals, references
- · Update of templates to new rules
 - MP templates (minor changes) and major updates later (e.g. transport of CO₂)
 - ✓ AER template for installations / aircraft operators
 - ✓ IR templates (minor issues in guidance)
- Update of tools and new trainings to inform stakeholders (like today)



Update of AV guidance

- New guidance on ETS2 verification & VR template
- Update of guidance to new rules: e.g.
 - ✓ How to deal with MWI specific issues
 - Role of verifier in assessing CCS/CCU rules
 - ✓ Role of verifier in assessing transport of CO2 issues
 - Amendment of existing AVR rules (e.g. virtual site visits)
 - Update VR template & guidance
 - ✓ GD III on aviation regarding new rules (e.g. CORSIA)
- Update guidance & templates on allocation
 - ✓ Guidance Document 4 on conditionality
 - VR templates on allocation
 - Information exchange templates to allow reporting on new issues
- Update tools and new trainings to inform stakeholders



















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What has changed?

- Guidance Document 3 was published in October 2022; Training material updated in May 2023
- Since then, the following happened:
 - · EU ETS Directive was amended:
 - Annex I introduces "95% sustainable biomass" criterion
 - Article 14 and Annex IV legal basis for RED II criteria for zero-rating, RFNBO/RCFs included
 - Aviation: Art. 3c(6): support for Sustainable Aviation Fuels, including synthetic low carbon fuels (SLCFs)
 - RED II was amended:
 - · Updated sustainability & GHG savings criteria for biomass and RFNBO/RCFs
 - Strengthened Union Database (UDB)
- · All changes will be reflected in the guidance documents to be updated

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Updates in MRR for biomass and alternative fuels

- Definitions
- Calculation formulae updated, definition of Memo-Items to be reported for transparency
- Rules on how to determine all fuel fractions
 - Determination of zero-rated fractions is voluntary
 - Often the total fraction of a type is identical to the zero-rated fraction
 - The zero-rated fraction is usually determined by having PoS (Proof of Sustainability) from a RED II certification scheme
 - For biomass: Analyses are possible, for RFNBO/RCF/SLCF not
- Rules are given for all monitoring methodologies and for being conservative
 - Standard method, mass balance, CEMS, transfer of CO_2 and inherent CO_2

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Changes in the RED II

- Some changes in Art. 29 (sustainability & GHG savings criteria)
 - For MRR: GHG savings threshold also for installations starting before 2021
- RFNBO / RCF: GHG savings threshold included
- Union Database (UDB) strengthened:
 - Mandatory for all recognised certification schemes
 - Ensures that there is no separate handling of GoO and PoS
 - Enables transboundary biogas trading (the whole natural gas grid is one single mass balance)
 - Therefore, MRR explicitly allows (recommends) that proof of sustainability should be taken from UDB





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ETS2

- Main elements introduced in batch 1 (Art. 75a ff)
- Batch 2:
 - Minor changes to ensure full consistency (RFNBO/RCF and biomass), etc.
 - Revisions in Article 75e and 75n MRR on categorisation of regulated entities
 - Clarify that categories are before application of the scope factor (unless RE can provide evidence that the scope factor is representative)
 - Definition of ETS2 final consumer added (< 1 t CO₂)
 - Clarification that Annex Xa/Xb reports are part of AER and not separate
- Impact of ETS2 on ETS1 → see next presentation
- MRVA of ETS2 → dedicated ETS2 training event on 14 Nov 2024

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Checks by ETS1 verifier on Annex Xa info

The verifier checks the following:

- · Completeness of Annex Xa information and compliance with Annex Xa
- Performs cross checks between Annex Xa information and information in procurement system (fuel supplier contracts, delivery notes, fuel invoices)
- Checks the methodology in the approved MP on how to split the fuel amounts between suppliers, if fuels are not used in the same reporting year
- Checks whether the amounts of fuels used from the supplier do not exceed the amount acquired from that supplier while taking into account the amounts stored in stock according to the approved MP methodology
- The verifier must report the checks carried out and any findings in the verification report
- When Annex Xa information is shared with the regulated entity, the ETS 1 operator must also share issues reported in the VR concerning Annex Xa info relevant for that regulated entity

Checks by ETS2 verifier on Annex Xa info

- The regulated entity shares Annex Xa info received from ETS1 operator in line with Article 75v(2) MRR and any issues reported by the ETS 1 verifier on Annex Xa checks carried out
- ETS 2 verifier cross checks during the ETS2 verification Annex Xa information with Annex Xb information and other evidence from the regulated entities (Art 43I (6) AVR)
- ETS 2 verifier reports the following issues:
 - > Confirmation that checks have been carried out by the ETS2 verifier
 - > Confirmation whether Annex Xa information is consistent with Annex Xb information
 - Misstatements, non-conformities and non-compliance that are not corrected before issuing the verification report (Art 43r(3) (j), (n) and (o) AVR)

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Transitional	provisions

Туре	Application	Started	Reporting for the first time	"Old" FAR rules	New FAR rules
Incumbent	NIMs 2026-2030				Х
	Normal ALC	n.a.		Х	
	Cessation (installation)				as of 2024*
New entrant		2022	2023	Х	
		2022	2024	X**	X***
		2023	2024+	X**	X***
	2024+			Х	
* Art. 26 on cess ** for 2022 and 2 ***for 2024+ allo	ation of the installation applies as 2023 allocations (using the ALC te cations (using the recently "updat	of 2024 emplate version a ed" ALC templat	already available : e)	since 2021)	








<section-header> • Verification of climate neutrality reports • Verifier checks on milestones & targets whether: • intermediate and final milestones and targets have been met • information used to demonstrate achievement of milestones and targets is reasonable and free of material misstatements • qualitative milestones are commensurate and consistent with targets • Verifier checks on CNP • Verifier uses CNP as a starting and reference point • Verifier checks implementation of elements in CNP related to milestones & targets • Identification of non-compliance of CNP with CNP implementing act must be reported in the verification report Checks fall under current competence requirements of an EUE EVENCE











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Overview

- State of play and timeline on the non-CO2 MRV
- · Macro-view on the MRV features, data, functioning
- Draft monitoring plan template run through
- AVR verification scenarios sneak peek



Balance between flexibility and data precision of the MRV

- **Innovative metric** GWP with multiple time horizons (20, 50, and 100 years), with efficacy applied through NEATS, to express the CO₂e/flight, avoiding lock-in effects,
- **Menu-like** *NEATS* automatising the entire MRV process, where other than the fuel properties (e.g. aromatic content, H/C ratio, sulphur, etc.), only aircraft properties (aircraft type, engine UID and aircraft mass) are to be sourced by the aircraft operators (unless automatized as well),
- Simplification for small emitters (<25 ktCO₂/y),
- No mandatory quick access recorder (QAR) data using third-party available data (e.g. provided by EUROCONTROL and national weather services with a common reference NWP model) rather than data measured in-flight (measured data allowed in NEATS – confidential data is protected),
- **Default values** (fuel properties, engine UID, aircraft mass) in case no data is provided, possibility of <u>fully automatic MRV</u>. Important for ensuring transparency and consistency,
- Transparent and state-of-art models and modules: climatological location-simplified model approach ((<u>open)AirClim</u>) for small emitters, while default is the weather-based approach (<u>CoCIP</u> and <u>aCCF</u>). Those are preceded by modules: <u>BADA</u> and <u>Boeing FFM2</u> respectfully for fuel-burn and emissions.





Draft monitoring plan template run through

AVR work in progress (draft concept note) sneak peek

Verification very much dependent on the possible monitoring and reporting scenarios and data flow

- Scenario 1. No primary data and use of NEATS only → Automatic verification through NEATS the non-CO₂ aviation effects report is automatically generated from NEATS, without any input from the AO (secondary data and all defaults values are used).
- Scenario 2. No primary data and use only of other IT tools approved by the Commission → Automatic verification through the IT tools of the generated report, without any input from the AO (same options apply as in Scenario 1).
- Scenario 3. Input of primary data and possible use of other modules → it is important for a verifier to check data flow, procedures and perform checks on data. The detail & type of verification depends on:
 - The complexity of primary data inserted in NEATS / other IT tools approved by the Commission and complexity of data flow & monitoring processes (input of fuel flow, fuel properties & own modules lead to greater complexity than input of flight data or aircraft properties)
 - > The verifier's risk analysis is an important factor in determining the level and detail of verification
 - > Complexity of verification has an impact on the required competences of the verifier

Ongoing assessment of several options for the verification of $non-CO_2$ aviation effects









Zero-rating – Example:	Biomas	Always for assessment of EU ETS thresholds and for CORSIA reporting
CO_2 entering the atmosphere = MFQ × EF _{pre}		
Fossil NFQ = MFQ × Fossil Fraction	Biofuels NFQ = MFQ × BF	
Neat fossil fuel	Neat non-certified biofuels	Neat biofuels certified to comply with RED II
	= MFQ \times BF _{non-zero}	= MFQ \times BF _{zero-rated}
CO ₂ for which allowances have to be surrendered		Zero-rated biomass CO ₂
= (NFQ _{fossil} + NFQ _{non-zero}) × EF _{pre}		= NFQ _{zero-rated} ×EF _{pre}
EF _{pre} Preliminary Emission Factor MFQ Fuel Quantity of mixed aviation fuels NFQ Quantity of neat aviation fuel BF Biomass fraction		









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RED II criteria: Demonstrate compliance

• Options:

- National systems
- · Voluntary national or international schemes that the MS accepts
- By providing all relevant evidence and GHG calculations themselves, having the information appropriately audited (if accepted by MS)

For zero-rating biomass emissions under the EU ETS MRV rules, the burden of proof concerning a biofuel, bioliquid or biomass fuel meeting the applicable sustainability and/or GHG savings criteria remains with the EU ETS operator, aircraft operator, shipping company or regulated entity (ETS2)!













RED II – Certification systems: Requirements, recognition of national and voluntary schemes

Galin GENTCHEV, European Commission, DG ENER, Unit C2 Decarbonisation and Sustainability of Energy Sources

EC recognised national and voluntary certification schemes (VSs)

- EC-recognised VSs are the main compliance mechanism under REDII;
- National certification schemes can be used by MSs as well but only one such scheme notified and recognised by Commission to date (AACS);
- However, there are national schemes operating nationally without being notified and recognised by the Commission;

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• 14 voluntary schemes and 1 national scheme were officially recognised by the Commission to date;















- Ensure balanced representation of stakeholders, mitigate risk of conflict of interest in decision-making, including integrity of auditors, and access to technical support;
- System to deal with non-conformities, based on a harmonised definition;
- Minimum standards for VSs on operating a monitoring system on the quality of the audit process: Its results summarised in annual activity reports;
- Mandatory transparency requirements about minimum information to be made available on the website of VSs.

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Article 19 of IR



- <u>physically mixed</u> in a container, at a processing or logistical facility, or at a transmission and distribution infrastructure or site;
- physically identical/ not mixed/ but stored in the boundaries of the MBS;
- <u>belong to the same product group and stored in the boundaries of the MBS</u>.

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Article 19.2(a)-(e): The concept of a mixture

- Special additional requirement for raw materials- to be considered part of a mixture they have to belong to the same product group, except where the raw material is mixed for the purpose of further processing (processing site).
- Fuels introduced into a logistical facility or a transmission or distribution infrastructure are considered part of a mixture only if that infrastructure is interconnected- to cover the case of gaseous fuels part of the interconnected EU grid or liquid fuels part of an interconnected pipes infrastructure!
- EOs to keep separate mass balances for raw materials and fuels not considered part of a mixture. Transfer of sustainability and GHG emissions saving characteristics and sizes between different mass balances not
 ¹⁹ allowed!

Article 19.2(a)-(e): The concept of a Product Group

 'product group' means raw materials, biofuels, bioliquids, non-gaseous biomass fuels with similar physical and chemical characteristics and similar heating values or gaseous biomass fuels, and LNG with similar chemical characteristics that all are subject to the same rules set out in Articles 7, 26 and 27 of Directive (EU) 2018/2001 for determining the contribution of biofuels, bioliquids and biomass fuels towards achieving the targets for renewable energy;

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Objective of the MBS: Keep separate chain of custody and traceability for raw materials that are treated differently under RED II until the production site! <u>Practical examples</u>

- Raw material for 1st generation biofuels can be mixed: rapeseed oil and sunflower oil on a site can be considered a mixture- free allocation of sustainability characteristics (since part of the same product group);
- REDII sub-target is included in the definition of product group- rapeseed oil, palm oil and UCO on a site <u>cannot be considered part of a mixture</u>: <u>different</u> <u>MBSs to be applied</u>!
- However, any biodiesel feedstock on a site to be processed for biodiesel can be mixed- free allocation of the total available sustainability characteristics to the outgoing by-products: e.g. FAME (Fatty Acid Methyl Ester)!
- ²¹ Sustainability characteristics can be allocated freely for physically identical feedstock like low ILUC and high ILUC palm!



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Article 19.2(f)- (i): Scope and accountancy of inputs/ outputs in the MBS

- Mass balance system (MBS) to cover all information about the sustainability and the GHG emissions characteristics and quantities of raw material and fuels (including the quantities of raw material and fuels for which no sustainability or GHG characteristics have been determined);
- Consignments of raw material or fuel delivered to an EO outside of the certification system (not participating in a voluntary scheme or national scheme) to be booked by withdrawing an equivalent quantity of raw material or fuel <u>AND</u> the type of fuel shall correspond to the physical nature of the raw material or fuel delivered (i.e. no free allocation of sustainability characteristics for these consignments not allowed!);

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Article 19.2(j)- (k): Allocation sustainability information in the MBS

- Sustainability and GHG emissions saving characteristics of a consignment of raw material or fuel considered as a set.
- Free allocation of the sets of sustainability and GHG emissions saving characteristics as long as they are not split and the mass balance is achieved over the appropriate period of time;
- No use of average GHG values is allowed!
- Include information on whether support has been provided for the production of the fuel or fuel precursor, and if so, the type of support;

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Verifier's checks on calculation methods

Method	Examples of verifier's check
Quantity of renewable fuel	Normal checks on determination of activity data (Section 3.3 KGN li.3 on process analysis)
Sampling/ analysis of biomass fraction	Normal checks regarding sampling and evidence of accredited or non- accredited labs (see section 3.3 KGN II.3 on process analysis and 3.1, 3.2 and 3.10 FAQ)
Default value	Correct application of default values
Article 30 REDII mass balance for biomass, RNFBO/RCF &SLCF	 The verifier checks whether: Zero-rated biomass fuel is identical to total biomass fraction Application of mass balance Evidence of compliance with REDII criteria (for RFNBO/RCF and SLCF evidence in principle obtained through Union database or certification) Whether evidence covers all of the batches of renewable fuels
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Monitoring aspect	Examples of verifier's checks
Checking data flow	Checks on location of stacks/ducts and CEMS; process types and variations; transfer of metering readings; emission points; calculation and aggregation of data (section 6.1 Guidance Document 7 or CEMS)
Checking QALs and AST	Checks on the correct application of QALs and AST (section 6.2 Guidance Document 7 on CEMS)
CEMS related procedures	Normal checks on establishment and implementation of procedures (see section 6.3 Guidance Document 7 on CEMS)
Data verification & calculations	Specific checks such as checking application of standards. Corroborative calculation, input data etc. (see section 6.4 Guidance Document 7 on CEMS)
Biomass related Issues	Two situations can occur:
	 REDII criteria are not applicable or 100% biomass is zero-rated → the verifier checks applicability of REDII criteria and whether the zero-rated biomass is a 100% biomass
	• Mixed fuels \rightarrow the verifier checks
	✓ whether the correct amount of zero-rated biomass/ RFNBO/RCF fraction is subtracted from the total emissions measured by CEMS
	 There is no double counting and the calculation method is applied correctly in line with the approved monitoring plan

Verifier's checks on procedures

The operator has to establish procedures for determining quantity of biomass, RFNBO/RCF and SLCF and ensuring compliance with REDII criteria

The verifier must check whether these procedures

- ✓ are established, properly documented and maintained;
- ✓ contain the information recorded as described in the approved MP and MRR;
- ✓ have been correctly implemented and is up to date;
- ✓ are applied throughout the reporting year;
- ✓ are effective to mitigate the inherent and control risks.











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National scheme

National scheme

- Type of evidence and checks depend on the requirements in the national scheme but in principle similar checks need to be carried out
- · Additional checks by the ETS verifier include:
 - checks what certification evidence is required in the national scheme and what information is provided to the ETS operator
 - checks whether the certificate, statement or other form of evidence is consistent with the rules of the national scheme
 - ✓ where a registry is in place covering this evidence of compliance with REDII criteria, a cross check is needed on information in the registry and the statement/certificate
 - ✓ scope and results of audits performed under the national scheme (e.g. the statements, non-conformities, level of assurance applied)
 - ✓ whether the audit and certificate/statement covers the mass balance/ chain of custody
 - ✓ whether REDII auditor is accredited/certified and qualified

Operator's self evidence

- The ETS operator collects POS by providing evidence that each batch of biomass complies with REDII criteria and carries out the GHG calculations in relation to GHG savings criteria
- The evidence must be audited by an independent and competent auditor

Examples of checks on POS evidence from ETS operator

- Whether evidence for the different batches of fuel covers the full chain of custody and mass balance
- Whether POS relate to the appropriate batches (cross checking batch and delivery numbers)
- Quantities of biomass delivered or produced
- Whether mass balance is complete, correct and consistent and balances over the specified time period
- Consistency of weight basis over the whole mass balance if solid biomass is concerned

Examples of checks on audit evidence

- Whether appropriate chain of custody audit has been carried out by an independent auditor
- Whether auditor is accredited/certified and qualified
- Scope and results of the auditor (e.g. level of assurance, standards, statements, non-conformities, inclusion of full chain of custody)
- Reference to evidence in audit report
- Consistency audit report with requirements in rules
- Whether GHG calculations have been checked & confirmed as correct – evidence demonstrates checks on formulae, conversions, default value, supporting evidence etc.



Additional issues on RFNBO/RCF/SLCF

RFNBO/RCF

• Evidence of compliance with GHG savings criteria listed in Article 29a REDII will in principle be obtained through voluntary certification REDII schemes or UDB/national database in accordance with Article 31a REDII

SLCF

- The verifier must check:
 - Whether carbon content of SLCF has been subject to surrendering allowances under EU ETS Directive
 - ✓ Where the captured carbon is zero-rated according to the MRR, whether the evidence complies with GHG savings criteria listed in Article 29a(3) REDII
- Evidence of compliance of SLCF with GHG savings criteria will in principle be obtained through voluntary certification REDII schemes or UDB/ national database in accordance with Article 31a REDII

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Verifier's reporting

Normal reporting requirements in Article 27 AVR apply

- If the ETS verifier identified a non-conformity or non-compliance with the MRR (e.g. with respect to demonstrating compliance with REDII criteria or application of monitoring methodology), the verifier will raise this with the operator
- The operator must correct this and if not corrected the verifier assesses the material impact on the reported emission data
- A material issue leads to the decision that the emission report cannot be verified as satisfactory in accordance with Article 27(1) AVR
- If the issues are not corrected before issuing the verification report, the verifier must report the non-conformities and non-compliance issues in the verification report

Next steps

- AVR is currently being revised to clarify the verifier's role in checking compliance of RFNBO/RCF and SLCF with REDII criteria and the new MRR
- New rules are relevant for the verification of 2024 data
- · KGN II.3 will be updated to clarify the new rules
- GD III on verification of EU ETS aviation will be updated to clarify the role of EU ETS verifier in assessing compliance with the new requirements in Article 53a to 54c MRR

Close alignment with MRR Guidance Document 1 and 3 Planned updates of guidance expected for the beginning of 2025





Union Database for Biofuels Main concept & State of play

Galin GENTCHEV European Commission, DG ENER

Background

- Legal Basis: new article 31(a) of the revised Renewable Energy Directive (RED II) entered into force in November 2023;
- 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 factfinding by the by ENER/ IT team of the European Commission
- Implementing Act on sustainability certification 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;
- New Delegated Act in preparation to clarify implementation and responsibilities to ensure traceability of raw materials through UDB (currently published for public feedback).



Objective(s) of Union Database for Biofuels (UDB)

- Ensure traceability of consignments of fuels and the raw materials to bring about transparency and mitigate the risks of irregularities and fraud in the supply chain.
- Digitize the paper trail of trades in the market and provide ability to trace the fuel back to the Point of Origin of the raw material.
- · Host the metadata of all the certificates issued by certification schemes.
- Digitize proof of sustainability with unique reference PoS Identifier (per trade or Batch) generated by UDB.
- Determine the Total GHG emissions up to any point in the value chain- transparency to the buyer.
- · Verify the validity of certificates & PoS ID.
- Support auditing/ certification by verifying the accounting of raw materials/fuels (implementation of the mass balancing rules).
- Support National Authorities & EC for annual reporting on renewable energy consumption.

Traceability of liquid fuels supply chain



Registering an entity

- Each economic operater who is certified and has a valid certificate issued by a certification body.
- Voluntary Scheme / Certification body is responsible to send accurate Organisation and Certificate information to UDB on timely basis.
- Each economic operator will have their entity registered on UDB based on certificate validity.
- Each EO has the option to use either the online UDB application or system to system connectors to send their trade details to UDB.

Reporting trade transactions

- Farmers trades are reported by Collection point (as a buyer).
- Each trade is associated with a unique PoS identifier per trade/batch with GHG, Quantity & Point of Origin.
- A unique PoS ID is generated at each subsequent points in value chain that has a snapshot of all batches (mixed) i.e. link to previous PoS ID.
- Each seller reports his trade to UDB (Online or via 3rd party DB).
- · Buyer has the option to reject a trade with a reason.
- Transaction corrections are allowed within a certain time frame.



European Commission

Consumer







Concept of Union Database (UDB) for gaseous fuels

- EU Grid is a single logistical facility from a mass-balance perspective
- Local grids- subject to separate massbalancing.
- Any trades between grids will be reported to UDB as a trade transaction.
- PoS within the grid will be transferred or monitored without the need for traceability.









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RED and biomass in ETS in Flanders

- Biomass use under ETS in Flanders
- ▶ REDII for ETS in Flanders
- ► REDIII





REDII for ETS in Flanders

- \rightarrow Current implementation
- \rightarrow Biomethane injected in the grid
- \rightarrow Lessons learned

► REDIII













REDII for ETS in Flanders

- \rightarrow Current implementation
- \rightarrow Biomethane injected in the grid
- \rightarrow Lessons learned

▶ REDIII?





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ENERGY & CLIMATE AGENCY OF FLANDERS




1. Information on biomass in the monitoring plan

• For each biomass source stream used for energy purposes the operator must submit a description of the process on how he provides evidence of compliance with the RED II criteria in the annual emissions report.

In MP the operator must provide the following information:

- Biomass type
- RED II biomass category
- If applicable: procedure for determining the amount of fuel to the fossil fraction, sustainable and non-sustainable biomass fraction
- If applicable: procedure for determining the amount of fuel to the material and energetic use
- Date of first use of biomass in the installation
- Applicable RED II criteria
- Name of the certification system used

2. Information on biomass in the AER

- For each biomass source stream, the operator must provide the following information in the AER:
 - Non-sustainable biomass fraction and fraction of sustainable biomass in total carbon in %
 - The preliminary emission factor, which refers to the entire source stream (fossil and zero-rated fraction).
 - A list with the identifiers of the underlying PoS in Nabisy

3. Information on sustainability in the national database Nabisy

- National legislation and regulations on sustainability and on emissions trading specify requirements on PoS
 permitted in the annual emissions reporting => only PoS from the state database Nabisy.
- In Germany, PoS are issued and transferred exclusively electronically in the state database Nabisy.
 Competent authority = Federal Office for Agriculture and Food
- Requirements for access to the database for all economic operators along the supply chain: participation in a certification system and a current certification in the area of RED
- PoS from the Nabisy database is generally not submitted individually with the AER => the operator lists the PoS-ID of PoS submitted for each source stream for the reporting year in a document and submits this list with the AER. PoS must only be submitted in individual cases if requested by DEHSt.

3. Information on sustainability in the national database Nabisy

- The producer of the biomass fuel or ETS operator must provide the following information in the Nabisy database:
 - Type of biomass
 - Fuel quantity
 - Country of cultivation/ country of origin
 - Delivery details (delivery date, place of transfer,...)
 - Recipient account in Nabisy
 - Information on the use of the total default value or on the individual parts of the GHG formula, if there is an obligation to provide GHG information
- Parallel use of the UDB: Recognition of PoS from the UDB will be regulated by a national regulation

4. Challenges regarding sustainability certification of RFNBOs/RCFs

- The EU-COM has not yet recognised a certification system.
- No certification bodies have yet been recognised in Germany.
- National database (≠ Nabisy) is still under construction.
- UDB may provide PoS earlier, but probably not for the 2024 reporting year.
- National regulation on requirements for the PoS is still pending.
- It is not clear with which evidence the zero-rated fraction can be recognised for the 2024 reporting year; according to COM, there should be recognition with low requirements => DEHSt is in coordination with the ministry; from DEHSt's point of view, a ministerial instruction would be needed

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This presentation is based on a speech held by the German Emissions Trading Authority (DEHSt) and is not clear for publication. Check against delivery. References and quotations from the presentation must at all times be approved in written form by the DEHSt.											









RED-II CHALLANGES															
- Matching deadlines for ETS and national RE reporting															
- Proof of national RE-compliance must be available when ETS audits are carried out															
 No voluntary schemes for RFNBO's/RCF's or SLCF's yet 															
	Jan 2022	Feb 2022	Mar 2022	Apr 2022	May 2022	Jun 2022	Jul 2022	Aug 2022	Sep 2022	Oct 2022	Nov 2022	Dec 2022	Jan 2023	Feb 2023	Mar 2023
EU ETS reporting	Reporting period Deadline														
National RE reporting	Reporting period Deadline													Deadline	
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