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## INTERIM REPORT

# EU4Energy Governance PHASE II+

## Republic of Moldova

*Support for establishing a regulatory  
framework for sustainable biomass use  
and bioenergy market development*

April 2026

## Impressum

Title: *Support for establishing a regulatory framework for sustainable biomass use and bioenergy market development, including consultations with market players in Georgia, Moldova and Ukraine*

Report for Moldova:

*Task 1: Concept for implementation, verification and monitoring of the obligation for fuel suppliers to place renewable fuels on the market in Moldova*

*Task 2: Concept for implementation and verification of sustainability and GHG emissions saving criteria for biofuels, bioliquids and biomass fuels*

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# Contents

Contents.....	3
List of figures.....	4
List of tables.....	4
Abbreviations.....	5
Glossary.....	6
<b>1. INTRODUCTION AND PROJECT CONTEXT.....</b>	<b>9</b>
1.1. <i>Project background and rationale.....</i>	9
1.2. <i>Objectives of the assignment.....</i>	10
<b>2. RED II REQUIREMENTS AND RELATED DELEGATED AND IMPLEMENTING ACTS.....</b>	<b>12</b>
2.1. <i>EnC Aquis related to renewable energy in transport.....</i>	12
2.2. <i>Mainstream renewable energy in the transport sector.....</i>	13
2.3. <i>Sustainability and GHG emissions saving requirements.....</i>	15
2.4. <i>Voluntary schemes and certification under voluntary schemes.....</i>	19
2.5. <i>Verification of compliance through a recognised voluntary scheme.....</i>	20
<b>3. BENCHMARKING BEST PRACTICES.....</b>	<b>28</b>
3.1. <i>Ireland’s Renewable Transport Fuel Obligation.....</i>	28
3.2. <i>The Netherlands’ “Energy for Transport” System.....</i>	32
3.3. <i>Denmark’s biomethane injection system.....</i>	35
<b>4. COUNTRY CONTEXT ANALYSIS.....</b>	<b>38</b>
4.1. <i>National fuel supply chain.....</i>	38
4.2. <i>Petroleum products market in Moldova.....</i>	39
4.3. <i>Indicative RES-T targets.....</i>	39
<b>5. DESIGN CONCEPTS FOR MAINSTREAMING RENEWABLE ENERGY USE IN THE TRANSPORT SECTOR.....</b>	<b>41</b>
5.1. <i>Concept for implementation, verification and monitoring of the obligation for fuel suppliers to place renewable fuels on the market in Moldova.....</i>	44

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5.2. Concept for implementation and verification of sustainability and GHG emissions saving criteria for biofuels, bioliquids and biomass fuels..... 46

5.3. Institutional Responsibilities for the Implementation of the Proposed Concepts on Renewable Fuel Obligations and Sustainability Criteria..... 51

5.4. Compliance Mechanisms and Penalties..... 53

**6. LEGAL AND REGULATORY FOUNDATION..... 54**

6.1. Current Legal and Regulatory Framework..... 54

6.2. Alignment with RED II Requirement..... 55

6.3. Legislative amendments recommended sequencing..... 60

**7. CONCLUSION..... 62**

## List of figures

Figure 1. Indicative yearly RES-T targets according to the type of renewable energy (including the multipliers) .....40

Figure 2. Scheme of proposed institutional responsibilities within the proposed sustainability and GHG emission compliance system.....43

## List of tables

Table 1. Decisions, Implementing Regulations and Delegated Regulations supplementing RED II **Error! Bookmark not defined.**

Table 2. Basic information on the most widely used voluntary schemes..... **Error! Bookmark not defined.**

Table 3. Balance of NGL, Motor gasoline, Jet fuel and Diesel oil in Moldova in 2024.....38

Table 4. Consumption of petroleum products in the transport sector according to the modes of transport.....38



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## Abbreviations

Abbreviation	Meaning of the abbreviation
ACM	Dutch Authority for Consumers and Markets
ANRE / NAER	National Agency for Energy Regulation of the Republic of Moldova
BOS	Biofuel Obligation Scheme
CB	Certification Body
CP	Contracting Party of the Energy Community Treaty
DANAK	Danish Accreditation Fund (national accreditation body)
DEA	Danish Energy Agency
DfB	Database for Biofuels
DSO	Distribution System Operator
DUR	Danish Utility Regulator
EC	European Commission
EnC	Energy Community
EnCS	Energy Community Secretariat
EO	Economic Operator
EU	European Union
GHG	Greenhouse Gases
GO	Guarantees of Origin
HBEs	Hernieuwbare Brandstof Eenheden (Renewable Fuel Units)
ILUC	Indirect Land-Use Change
MID	Measuring Instruments Directive
NEA	Dutch Emissions Authority
NECP	National Energy and Climate Plan
NCSE	National Centre for Sustainable Energy of Moldova
NORA	National Oil Reserves Agency
NUTS	Nomenclature of Units for Territorial Statistics
PoS	Proof of Sustainability
RED II	Directive (EU) 2018/2001
RES -T	Renewable Energy Sources in Transport
REV	Renewable Energy Registry
RFNBO	Renewable Fuels of Non-Biological Origin
RTF Certificate	Renewable Transport Fuel Certificate
RTF Registry	Renewable Transport Fuel Registry
RTFO	Renewable Transport Fuel Obligation
RvA	Dutch Accreditation Council
TSO	Transmission System Operator
VS	Voluntary Scheme

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## Glossary

<b>Advanced biofuels</b>	Advanced biofuels are renewable transport fuels made exclusively from the feedstocks listed in Annex IX Part A of the Directive (EU) 2018/2001 of 11 December 2018 on the promotion of the use of energy from renewable sources (RED II), as adapted and adopted by Decision 2021/14/MC-EnC and Decision 2022/02/MC-EnC.
<b>Biofuels</b>	Liquid fuel for transport produced from biomass.
<b>Bioliquids</b>	Liquid fuels for energy purposes other than for transport, including electricity and heating and cooling, produced from biomass.
<b>Biomass fuels</b>	Gaseous and solid fuels produced from biomass.
<b>Biomass</b>	Biodegradable fraction of products, waste and residues from biological origin from agriculture, including vegetal and animal substances, from forestry and related industries, including fisheries and aquaculture, as well as the biodegradable fraction of waste, including industrial and municipal waste of biological origin.
<b>Certification audit</b>	Initial audit before participation in a scheme, with the purpose of issuing a certificate under a voluntary scheme.
<b>Certification body</b>	Independent accredited or recognised conformity assessment body that concludes an agreement with a recognised voluntary scheme to provide certification services for raw materials or fuels by carrying out audits of economic operators and issuing certificates on behalf of the voluntary schemes using the voluntary scheme's certification system. It must be accredited pursuant to the relevant delegated act, as adapted for the Energy Community.
<b>Database for Biofuels</b>	Central point for transmission and tracing of sustainability and greenhouse gas emissions saving characteristics of consignments of liquid or gaseous fuels through the whole supply chain from economic operator to economic operator, as well as data that is specific for the individual transaction.
<b>Economic operator</b>	Producer of raw material, a collector of waste and residues, an operator of installations processing raw material into final fuels or intermediate products, an operator of installations producing energy (electricity, heating or cooling) or any other operator, including of storage facilities or traders that are in physical possession of raw material or fuels, provided that they process information on the sustainability and greenhouse gas emissions saving characteristics of those raw materials or fuels.
<b>Food and feed crops</b>	Starch-rich crops, sugar crops or oil crops produced on agricultural land as a main crop excluding residues, waste or ligno-cellulosic material and intermediate crops, such as catch crops and cover crops, provided that the use of such intermediate crops does not trigger demand for additional land
<b>Implementing and</b>	Secondary legislation adopted by the European Commission which

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**delegated acts** either supplements or amends non-essential parts of EU legislation (delegated act) or sets uniform conditions for applying EU law (implementing act), as adapted and adopted by the Energy Community’s Permanent High-Level Group.

<b>Mass balance system</b>		A chain-of-custody approach mandated under the RED (e.g. RED II / RED recast) whereby materials (raw materials, intermediate products, fuels) with different sustainability and greenhouse gas (GHG) emission characteristics may be physically mixed in the supply chain, but their sustainability attributes (e.g. “certified sustainable” or “non-certified”) are tracked and allocated by bookkeeping, so that the volumes leaving the system do not exceed the volumes entering with the given sustainability attributes. Article 30 of REDII defines the characteristics of the mass-balance system while Article 19 of the Implementing Regulation 2022/996 prescribes the implementation rules.
<b>Obligated supplier</b>	<b>fuel</b>	The entity designated by a Contracting Party as responsible for meeting the renewable energy obligation in the transport sector.
<b>Proof of sustainability</b>	<b>of</b>	Declaration by an economic operator, made on the basis of a certificate issued by a certification body within the framework of a voluntary scheme certifying the compliance of a specific quantity of feedstock or fuels with the sustainability and greenhouse gas emissions savings criteria set out in Articles 25(2) and 29 of Directive (EU) 2018/2001.
<b>Recycled fuels</b>	<b>carbon</b>	Recycled carbon fuels are liquid and gaseous fuels produced from liquid or solid waste streams of non-renewable origin, or from waste processing gases and exhaust gases of non-renewable origin, that cannot be avoided, and that would otherwise be released into the environment.
<b>Renewable Transport Certificate</b>	<b>Fuel</b>	A compliance unit used in many EU Member States (and the UK before Brexit) to show that an obligated fuel supplier has met its renewable energy obligation in transport under the Renewable Energy Directive (RED II/III).
<b>Renewable Transport Fuels of Non-biological origin</b>		Liquid and gaseous fuels used in transport and other energy sectors whose energy content comes from renewable sources other than biomass.
<b>Renewable Transport Registry</b>	<b>Fuel</b>	Electronic registry that records renewable transport fuels (biofuels, advanced biofuels, RFNBOs, recycled carbon fuels, electricity) placed on the market and enables trading of certificated.
<b>Surveillance audit</b>		Follow up audit of certificates issued by a certification body within the framework of a voluntary scheme after certification and before a re-certification audit, which can be carried out quarterly, half annually or annually.
<b>Supervision of certification bodies</b>	<b>of</b>	Supervision of certification bodies by national authority to check the issued sustainability and GHG emission compliance certificates, data used, and procedures applied in independent verification process.
<b>Supervision of</b>	<b>of</b>	Surveillance monitoring by a) certification body under voluntary

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<b>economic operators</b>	scheme to confirm if the economic operator complies with the rules of the scheme and reports correct information and procedures; b) by national authority pursuant to Article 17 of Implementing Regulation 2022/996 or to the governance of the national DfB (if any).
<b>Sustainability and GHG compliance certificate</b>	Conformity statement by a certification body within the framework of a voluntary scheme, certifying that an economic operator complies with the requirements of RED II.
<b>Sustainability and GHG emissions saving characteristics</b>	Set of information describing a consignment of raw material or fuel that is required for demonstrating compliance of that consignment with the sustainability and greenhouse gas emissions saving criteria for biofuels, bioliquids and biomass fuels under RED II, Article 29.
<b>Voluntary scheme</b>	Organisation that certifies the compliance of economic operators with criteria and rules including, but not limited to, the sustainability and greenhouse gas saving criteria set out in Directive (EU) 2018/2001 and in Delegated Regulation (EU) 2019/807. A voluntary scheme is considered as recognised voluntary scheme if it is recognised by European Commission for the purpose of demonstrating compliance under RED II and thereafter recognised by the Secretariat in relation to the Energy Community.



# 1. INTRODUCTION AND PROJECT CONTEXT

## 1.1. Project background and rationale

Moldova, as a Contracting Party to the Treaty establishing the Energy Community, from February 1, 2010<sup>1</sup> is legally bound to align its national energy frameworks with the Energy Community's renewable energy legislation. The Energy Community extends the EU's internal energy market to its eastern neighbouring countries, aiming to create an integrated, secure, and sustainable energy market. In this context, Moldova has committed to transposing Directive (EU) 2018/2001 on the promotion of the use of energy from renewable sources (RED II), as adapted and adopted by the Ministerial Council Decisions 2021/14/MC-EnC and 2022/02/MC-EnC.

RED II requires Contracting Parties not only to set binding renewable energy targets across electricity, heating and cooling, and transport, but also to adopt sector-specific rules, sustainability criteria, and monitoring systems. For the transport sector in particular, the Directive prescribes a minimum 14% share of energy from renewable sources consumed in final consumption in transport by 2030, while setting detailed conditions on the contribution of advanced biofuels, renewable hydrogen, and limitations on food and feed-based biofuels. These obligations are reinforced by sustainability and greenhouse gas (GHG) emissions saving criteria that ensure renewable fuels deliver real climate benefits. Only fuels meeting these criteria are eligible to count towards national targets. Furthermore, RED II establishes a strengthened system of guarantees of origin, mechanisms for statistical transfers and joint projects between countries, and transparent monitoring and reporting frameworks.

Recognising the importance of these reforms, the Energy Community Ministerial Council in 2021 adopted a decision requiring Contracting Parties to implement RED II provisions into national legislation by the end of 2022. This includes not only the adoption of binding national renewable energy targets and sectoral trajectories, but also the establishment of systems to monitor fuel suppliers' obligations, verify compliance with sustainability standards, and report progress to the Secretariat. However, as of early 2025, significant gaps remain in the Energy Community regarding the promotion of renewable energy in transport and the implementation of sustainability and GHG emissions saving criteria. Moldova has taken steps to adopt primary legislation aligned with RED II, but secondary legislation and enforcement systems are still under development.

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<sup>1</sup> <https://www.energy-community.org/contracting-parties/Moldova.html>

The rationale for this project is therefore twofold. First, it responds to a clear legal obligation: Moldova, as a Contracting Party, must transpose and implement RED II to remain compliant with the Energy Community *acquis* and avoid enforcement measures. Second, it addresses urgent policy and energy system needs. The transport sector in the country remains heavily dependent on imported fossil fuels, contributing to energy insecurity, exposure to volatile oil markets, and rising emissions. Establishing clear renewable energy targets and a sustainability framework will help diversify energy supply, improve resilience, and accelerate the transition to low-carbon transport.

## 1.2. Objectives of the assignment

The principal objective of this assignment is to translate the RED II requirements for renewable energy in the transport sector into practical, enforceable, and country-specific systems for Georgia, ensuring full legal alignment with RED II and its implementing and delegated acts<sup>2</sup> while responding to the institutional and market realities of the country. This work aims to close the gap between regional Energy Community obligations and national practice by delivering ready-to-use designs, legal instruments where required, and the operational arrangements needed to monitor, verify, and enforce renewable transport fuel targets.

More specifically, the assignment will first establish a Renewable Transport Fuel Obligation model tailored to the country's market structure and administrative capacity.

The first objective is to define who is obliged to supply renewable transport fuels, how annual obligations and trajectories to 2030 should be set and applied (including appropriate use of multipliers and limits on food and feed-based biofuels), and which compliance instruments are both legally sound and practicable in the national context. The design model will also specify the reporting requirements, data flows, and traceability arrangements necessary for transparent monitoring.

The second objective, is to design a credible sustainability verification and GHG accounting framework so that only fuels meeting RED II sustainability and lifecycle emissions thresholds are eligible to count toward RES-T targets; this includes recommendations on recognition of voluntary certification schemes, national accreditation and audit roles, mass-balance and chain-of-custody rules, a REDII-compatible GHG calculation methodology, and the technical specification for a database to record certified consignments and guarantees of origin for gaseous renewable fuels.

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<sup>2</sup> Delegated acts under RED II have not yet been incorporated into the Energy Community *acquis*, and their application within the Energy Community framework remains pending, subject to future adoption processes



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The third objective is to convert the Renewable Transport Fuel Obligation (RTFO) and verification concepts into draft secondary legislation and complementary regulatory instruments that integrate seamlessly with existing primary laws and sectoral regulations, thereby ensuring the legal texts are immediately adoptable and operable by designated authorities.

The fourth objective is to secure stakeholder understanding through targeted engagement and a workshop that will present the proposals, gather feedback, and provide practical guidance so that the main beneficiary and relevant stakeholders share a common implementation roadmap.



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## 2. RED II REQUIREMENTS AND RELATED DELEGATED AND IMPLEMENTING ACTS

### 2.1. EnC Acquis related to renewable energy in transport

In 2021, the EnC Ministerial Council adapted and adopted five key legislative acts stemming from the EU's Clean Energy for All Europeans package (Decision 2021/14/MC-EnC).<sup>3</sup> The 2030 renewables, energy efficiency, and greenhouse gas reduction targets were adopted for the Energy Community a year later (Decision 2022/02/MC-EnC)<sup>4</sup>.

Directive (EU) 2018/2001 of 11 December 2018 on the promotion of the use of energy from renewable sources (RED II), as adapted and adopted by Decision 2021/14/MC-EnC and Decision 2022/02/MC-EnC, has been integrated into the Energy Community acquis, in line with the Energy Community's efforts to align with the European Union's climate and energy policies.

According to RED II, Contracting Parties are required to achieve a minimum share of energy from renewable sources in the transport sector (RES-T) by 2030. This includes specific obligations regarding the contributions and limitations of various fuel types along the RES-T trajectory, ensuring the target is met. To promote the use of renewable energy in transport, RED II mandates that Contracting Parties impose obligations on fuel suppliers to integrate renewable fuels into the market. This measure aims to ensure that the targeted share of renewable energy consumption in transport is achieved by 2030. Furthermore, RED II stipulates that only biofuels, bioliquids, and biomass fuels that meet the sustainability criteria and greenhouse gas (GHG) emissions savings requirements outlined in the Directive can be counted towards the RES-T target.

In addition to RED II, the detailed implementation and technical elaboration of its provisions are enabled through delegated and implementing acts adopted under RED II by the European Commission. These delegated and implementing acts supplement RED II provisions on mainstreaming the use of energy from renewable sources in the transport sector and the sustainability criteria and GHG emissions saving criteria for biofuels, bioliquids and biomass fuels by i) defining the rules and procedures to ensure an efficient and harmonised approach to verifying sustainability compliance, ii) providing the detailed methodologies for assessing the compliance of specific fuels with the sustainability criteria and iii) defining the methodologies

<sup>3</sup> [https://www.energy-community.org/dam/jcr:c755f9db-f6e7-448c-9cf5-0a5f02113ae2/19thMCDDecision14\\_CEP11\\_30112021.pdf](https://www.energy-community.org/dam/jcr:c755f9db-f6e7-448c-9cf5-0a5f02113ae2/19thMCDDecision14_CEP11_30112021.pdf)

<sup>4</sup> [https://www.energy-community.org/dam/jcr:421f0dca-1b16-4bb5-af86-067bc35fe073/Decision\\_02-2022-MC\\_CEP\\_2030targets\\_15122022.pdf](https://www.energy-community.org/dam/jcr:421f0dca-1b16-4bb5-af86-067bc35fe073/Decision_02-2022-MC_CEP_2030targets_15122022.pdf)

that can be used for determining the shares of biofuel and biogas for transport when produced from biomass that is processed with fossil fuels in a common process and specifying the required content of information to be submitted by economic operators.

In line with Article 2 of Decision 2021/14/MC-EnC, the Contracting Parties were required to bring into force the law, regulations, and administrative provisions necessary to comply with RED II by 31 December 2022. Delegated acts under RED II have not yet been incorporated into the Energy Community acquis, and their application within the Energy Community framework remains pending, subject to future adoption processes.

## 2.2. Mainstream renewable energy in the transport sector

The key objectives and obligations of Contracting Parties (CP) concerning the implementation of the RED II in the transport sector are outlined in Articles 25 to 27 of RED II. These provisions set the foundation for the mainstreaming of renewable energy into transport systems and establish a comprehensive framework for ensuring sustainability, GHG emissions savings, and accountability in the use of renewable fuels. To mainstream the use of renewable energy into the transport sector accordingly to Article 25 of RED II each CP shall impose an obligation on fuel suppliers to ensure that the share of renewable energy in final energy consumption in the transport sector reaches at least 14% by 2030 (minimum share), in line with the indicative trajectory established by the CP and calculated according to the methodology set out in Article 25 and in Articles 26 and 27 of RED II. CP may exempt or differentiate between suppliers and fuels based on technology maturity and cost.

For the calculation of the minimum share of renewable energy within the final consumption of energy in the transport sector, renewable liquid and gaseous transport fuels of non-biological origin (RFNBOs) also must be included when they are used as intermediate products to produce conventional fuel, and recycled carbon fuels (RFCs) may also be considered.

Final consumption of energy from renewable sources in the transport sector shall be calculated as the sum of all biofuels, biomass fuels and renewable liquid and gaseous transport fuels of non-biological origin consumed in the transport sector. However, renewable liquid and gaseous transport fuels of non-biological origin that are produced from renewable electricity shall be considered to be part of the calculation of gross final consumption of electricity from renewable sources only when calculating the quantity of electricity produced from renewable sources.

Advanced biofuels and biofuels and biogas from specific feedstocks must reach minimum shares:

- of 0.2% in 2022,
- 1% in 2025,
- and 3.5% in 2030.

Caps for certain types of biofuels and biogas, notably those listed in Annex IX, Part B, are introduced, limited to 1.7% of the total energy content, unless otherwise justified and approved.

Fuel suppliers supplying fuel in the form of electricity or renewable liquid and gaseous transport fuels of non-biological origin may be exempt from the obligation to comply with the minimum share of advanced biofuels and biogas produced from the feedstock listed in Part A of Annex IX of RED II.

From January 1, 2024, GHG emissions savings from the use of renewable liquid and gaseous transport fuels of non-biological origin must be at least 70%.

To limit the environmental and social risks associated with biofuels from food and feed crops, especially those linked to indirect land-use change (ILUC), Article 26 of RED II sets out the specific limitations on the use of biofuels, bioliquids, and biomass fuels produced from food and feed crops in the transport sector. Accordingly, the specific rules stipulate that, when calculating a Contracting Party's gross final consumption of energy from renewable sources and the minimum share under Article 25 of RED II, the share of such fuels must not exceed one percentage point above their 2022 share in road and rail transport, with an absolute cap of 7%. If the share in 2022 was below 1%, it may be increased to a maximum of 2%. CP may set lower limits based on ILUC concerns and may reduce its overall renewable energy target accordingly if such fuels are further restricted. In other words, if the limit for biofuels produced from food and feed crops is set to 0%, the target can be reduced by 7 percentage points. High ILUC-risk fuels must not exceed 2019 consumption levels unless certified as low ILUC-risk, with a gradual phase-out to 0% by 2030.

The share of renewable energy in the transport sector must be calculated using a harmonised methodology. Specific rules in Article 27 of RED II regarding the minimum shares of renewable energy in the transport sector require:

- Defining eligible energy sources that may be counted towards the renewable energy share, including renewable electricity, biofuels, biogas, renewable fuels of non-biological origin, and optionally, recycled carbon fuels,



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- Setting the denominator as the total energy content of all fuels supplied for use in road and rail transport (including conventional and renewable fuels), and the numerator as the energy content of renewable sources only, with the optional inclusion of recycled carbon fuels,
- Applying energy multipliers to incentivise the use of advanced renewable fuels:
  - 2× for biofuels and biogas produced from feedstock listed in Annex IX,
  - 4× for renewable electricity in road transport,
  - 1.5× for electricity in rail transport,
  - 1.2× for renewable fuels in aviation and maritime sectors (excluding food/feed-based fuels),
- Ensuring accurate accounting of renewable electricity, particularly electricity directly sourced from renewable installations or fully renewable grid electricity, under strict conditions to avoid double-counting.

Full implementation of RED II regarding mainstream renewable energy in the transport sector requires not only the transposition of Articles 25-27 but also the incorporation of detailed methodologies and definitions in the European Commission's delegated acts, adapted for the Energy Community, as outlined in Table 2-1.

### 2.3. Sustainability and GHG emissions saving requirements

To ensure that renewable energy sources contribute effectively to climate goals, any biofuels, bioliquids, and biomass fuels used to meet the national RES-T targets, or those receiving financial support through incentive schemes, must meet sustainability and greenhouse gas emissions reduction criteria outlined in RED II. This applies irrespective of the geographical origin of the biomass, i.e. independently of whether the raw materials and/or fuel are produced within the Energy Community or are imported. Article 30(3) of RED II imposes upon Contracting Parties the obligation to take measures to ensure that economic operators submit reliable information regarding the compliance with these requirements.

Biofuels, bioliquids and biomass fuels produced from waste and residues, other than agricultural, aquaculture, fisheries and forestry residues, are required to fulfil only the greenhouse gas emissions saving criteria. This also applies to waste and residues that are first processed into a product before being further processed into biofuels, bioliquids and biomass fuels.

The greenhouse gas emissions savings from the use of biofuels, bioliquids and biomass fuels (compared to their fossil fuel comparators) must be:

- at least 50% for biofuels, biogas consumed in the transport sector, and bioliquids produced in installations in operation on or before 5 October 2015;
- at least 60% for biofuels, biogas consumed in the transport sector, and bioliquids produced in installations starting operation from 6 October 2015 until 31 December 2020;
- at least 65% for biofuels, biogas consumed in the transport sector, and bioliquids produced in installations starting operation from 1 January 2021.

The greenhouse gas emissions saving from the use of biofuel, bioliquids and biomass fuels should be calculated according to the principles set in Article 31 of RED II:

- by using default values provided in the Directive Annex V and Annex VI for fuels where the annualised emissions from carbon stock changes caused by land-use change are zero or less;
- by calculating actual emissions using the detailed methodology in the Directive Annex V and Annex VI;
- by combining default values for some stages of the supply chain with actual values for others (a hybrid method).

Instead of using default values a Contracting Party may submit to the Secretariat a report including information on the typical greenhouse gas emissions from the cultivation of agricultural raw materials of the areas on their territory classified as level 2 in the nomenclature of territorial units for statistics (NUTS). The reports should include description of the method and data sources used to calculate the level of emissions. That method shall consider soil characteristics, climate and expected raw material yields.

Economic operators may claim actual GHG values for biofuels only if their capacity to calculate such values has been verified by an accredited certification body through an audit, ensuring compliance with the methodology in Annex V and/or Annex VI of RED II.

The Implementing and Delegated acts adopted by the European Commission for the European Union listed in following table, are not automatically applicable in the Energy Community. The Implementing and Delegated acts are currently undergoing a process of adaptation, after which they will be adopted by the Permanent High-Level Group.

**Table 1. Decisions, Implementing Regulations and Delegated Regulations supplementing RED II**

Scope	Delegated Act
Verification of sustainability, monitoring and reporting	<p><b>Implementing Regulation (EU) 2022/996</b> (rules and procedures for verification of compliance of sustainability and GHG saving criteria; obligations for VS, economic operators and MS)</p> <p><b>Commission Decision 2011/13/EU</b> (information to be submitted by economic operators to MS)</p>
Determining sustainability and GHG emissions of biomass sourcing	<p><b>Delegated Regulation (EU) 2019/807</b> (certification of low ILUC-risk feedstock)</p> <p><b>Regulation EC 1307/2014</b> (criteria and geographic ranges of highly biodiverse grasslands)</p> <p><b>Commission Decision 2010/335/EU</b> (guidelines for calculation of land carbon stocks)</p> <p><b>Delegated Directive EU 2024/1405</b> (amending Annex IX – Part A and B feedstock)</p>
Demonstrating compliance with sustainability criteria for forest biomass	<p><b>Implementing Regulation (EU) 2022/2448</b> (operational guidelines for economic operators, VS, MS)</p>
RFNBOs and Co-processing of biofuels with fossil fuels	<p><b>Delegated Regulation (EU) 2023/1184</b> (RFNBOs production)</p> <p><b>Delegated Regulation (EU) 2023/1185</b> (GHG thresholds for RFNBOs)</p> <p><b>Commission Delegated Regulation (EU) 2023/1640</b> (methodology for determining the share of biofuels and biogas for transport in co-processed fuels)</p>

The compliance with the criteria regarding sustainability and GHG emissions saving of biofuels, bioliquids and biomass fuels can be proven either by recognised voluntary schemes (presented in detail in the following sections) or national certification schemes.



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A Contracting Party may set up national schemes where compliance with the sustainability and greenhouse gas emissions saving criteria is verified throughout the entire chain of custody involving competent national authorities. The Contracting Party may notify such a national scheme to the Secretariat, which may then issue an opinion on whether such a notified national scheme complies with the conditions laid down in the Directive. A positive opinion ensures that other compliance schemes established in the Energy Community Contracting Parties shall not refuse mutual recognition with that Contracting Party's scheme. Since the national certification schemes require more administrative resources for the national authorities, in the European Union, many Member States rather opt for compliance being demonstrated through voluntary schemes recognised by the European Commission, rather than developing their own national schemes.

## 2.4. Voluntary schemes and certification under voluntary schemes

A Voluntary Scheme (VS) under RED II is a certification system recognized by the European Commission that enables economic operators (biofuel producers, traders, and importers) to prove compliance with RED II sustainability and GHG emissions saving criteria. Up to date, the Commission has formally approved 18 voluntary and national certification schemes<sup>5</sup>, and these are considered as ‘recognised voluntary schemes’. An economic operator may freely decide which voluntary scheme to engage. The most widely used voluntary schemes for biofuels and bioliquids from agricultural feedstock and waste are briefly shown and described in the following table.

**Table 2. Basic information on the most widely used voluntary schemes**

<b>International Sustainability and Carbon Certification (ISCC EU)</b> , <a href="https://www.iscc-system.org/">https://www.iscc-system.org/</a>	
Type of feedstock(s):	Agricultural biomass, forest biomass, wastes and residues.
Type of fuel(s):	All. The scheme covers biofuels, bioliquids and biomass fuels as well as renewable fuels of non-biological origin (RFNBOs) and recycled carbon fuels (RCFs).
Chain of custody coverage:	Full fuel chain (for biomethane from the production unit up to the point of consumption), including compliance of the consignments of biofuels, bioliquids and biomass fuels with the low indirect land-use change-risk criteria set in Delegated Regulation (EU) 2019/807.
Geographical coverage	Global
<b>Roundtable on Sustainable Biomaterials (RSB)</b> , <a href="https://rsb.org/">https://rsb.org/</a>	
Type of feedstock(s):	Agricultural biomass, wastes and residues (forest biomass is excluded)
Type of fuel(s):	All
Chain of custody coverage	Full fuel chain (for biomethane up to the production unit), including compliance of the consignments of biofuels, bioliquids and biomass fuels with the low indirect land-use change-risk criteria set in Delegated Regulation (EU) 2019/807.
Geographical coverage	Global
<b>Biomass Biofuels voluntary scheme (2BSVs)</b> , <a href="https://www.2bsvs.org/">https://www.2bsvs.org/</a>	
Type of feedstock(s):	Agricultural biomass (including wastes and residues)
Type of fuel(s):	All
Chain of custody coverage	Full fuel chain (for bio methane up to the production unit).
Geographical coverage	Global
<b>Sustainable Resources (SURE)</b> , <a href="https://sure-system.org/en-us/">https://sure-system.org/en-us/</a>	
Type of feedstock(s):	Agricultural and forest biomass (including wastes and residues)
Type of fuel(s):	Biomass fuels
Chain of custody coverage	Full fuel chain (for biomethane from the production unit up to point of consumption)
Geographical coverage	Global

<sup>5</sup> [Voluntary schemes](#)

Other voluntary schemes for biomass sustainability and GHG emissions saving compliance include KZR liG system, REDcert, RTRS EU RED, SBP and Better Biomass, among the others.

## 2.5. Verification of compliance through a recognised voluntary scheme

Voluntary schemes may only certify economic operators if they meet specific compliance requirements. These include having a documentation management system and an auditable system for securely storing and reviewing all evidence that supports their claims. Operators must retain the evidence that demonstrate compliance for a minimum of five years, or longer if required by the relevant national authority. Additionally, they must take full responsibility for preparing and providing any information needed for auditing of such evidence.

### 2.5.1. Certification body (independent auditor for compliance verification)

A certification body (CB) is an independent, accredited, or otherwise recognised conformity assessment body that has entered into an agreement with a voluntary scheme to provide certification services in the context of RED II. These services include auditing economic operators (e.g., producers, traders, importers) for compliance with sustainability and greenhouse gas (GHG) emissions saving criteria and issuing certificates in accordance with the scheme's rules.

In the European Union, CBs operating on behalf of the scheme must be accredited by a national accreditation body and in accordance with Regulation (EC) 765/2008<sup>6</sup>, and accredited to ISO 17065<sup>7</sup>, and 14065<sup>8</sup> for audits on actual GHG values. Article 11 of the transposition of Implementing Regulation 2022/996 into EnC acquis (draft version) envisages that certification bodies accredited in a Member States of the European Union shall be allowed to perform certification audits in Contracting Parties.

The Contracting Party establishes procedures allowing certification bodies to register for supervision by the State and for carrying out the supervision.

The list of certification bodies under a certain voluntary scheme is listed on the webpage of each scheme. The list also indicates for each certification body by which national public authority it was recognised, and which entity or national public body is monitoring it. Information about

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<sup>6</sup> [Regulation \(EC\) No 765/2008 of the European Parliament and of the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products and repealing Regulation \(EEC\) No 339/93](#)

<sup>7</sup> ISO/IEC 17065:2012 – Conformity assessment – Requirements for bodies certifying products, processes and services

<sup>8</sup> ISO 14065:2020 -Greenhouse gases – Requirements for greenhouse gas validation and verification bodies for use in accreditation or other forms of recognition.

recognised voluntary schemes and their coverage (majority with global coverage) is available on the European Commission's website<sup>9</sup>.

Some well-known certification bodies operating under RED II recognised voluntary schemes include Bureau Veritas, AgroVet, DQS, DNV, SGS, RINA, TÜV NORD, among others.

### *Certification audit*

Certification audit is an initial audit prior to an economic operator's participation in a voluntary scheme, with the purpose of issuing a certificate under a voluntary scheme. The voluntary scheme provides documentation and guidelines for the audit. Certification bodies conduct the audits in accordance with ISO 19011<sup>10</sup> or equivalent.

As part of the certification, the auditor (verifier) verifies compliance with Articles 29 and 30 of RED II, especially giving attention to how the economic operator addressed waste and residues, actual GHG emission calculations, mass balance system, natural and non-natural highly biodiverse grassland. These aspects are further detailed in Implementing Regulation 2022/996<sup>11</sup>.

The extent of the audit will depend primarily on the economic operator type (biofuel producer vs biofuel importer) and feedstock for fuels (waste, food and feed corps...). Voluntary schemes provide economic operators with instructions and support on how they assess whether raw materials are considered waste and residues.

During the audit it is essential to verify that the harvesting of agricultural waste and residues does not have a negative impact on the soil quality and the soil carbon stock. Such verification shall ensure that a relevant set of essential soil management or monitoring practices is applied on the land to promote soil carbon sequestration and soil quality. Furthermore, highly biodiverse grassland that existed in or after January 2008 may be used for fuel production on the condition that harvesting of the raw material is necessary to preserve the status of the grassland as highly biodiverse grassland and that current management practices do not present a risk of causing biodiversity decline. In that case economic operators shall provide the evidence, or evidence that they have been granted permission by the relevant competent authority to harvest the raw material in order to preserve the highly biodiverse grassland status.

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<sup>9</sup> [https://energy.ec.europa.eu/topics/renewable-energy/bioenergy/voluntary-schemes\\_en](https://energy.ec.europa.eu/topics/renewable-energy/bioenergy/voluntary-schemes_en)

<sup>10</sup> ISO 19011: Guidelines for Auditing Management Systems

<sup>11</sup> [Commission Implementing Regulation \(EU\) 2022/996 of 14 June 2022 on rules to verify sustainability and greenhouse gas emissions saving criteria and low indirect land-use change-risk criteria](#)

Low ILUC-risk certificates are additional to the sustainability and greenhouse gas emissions saving criteria in cases where this type of certificate is required.

Audits are typically conducted on-site at the economic operator's premises. Remote audits are permitted only under specific conditions and must be justified and documented. Voluntary schemes may allow for group audits under defined conditions. In such cases, a group manager must be appointed to represent the economic operators included in the group.

### *Sustainability certificate and Proof of Sustainability*

The certification body, accredited under a voluntary scheme, issues a certificate verifying that the economic operator complies with RED II sustainability and GHG emissions saving criteria. This certificate confirms eligibility of EO to participate in the scheme and to issue Proofs of Sustainability (PoS) or a self-declaration for consignments. PoS serves as evidence of compliance at the point of placing the fuel on the market. It is essential for receiving incentives or contributing to renewable energy targets.

The sustainability certificate is published on the scheme's web page and is publicly available. It is valid in all EU Member States and should be valid in all Energy Community Contracting Parties once the system is in place. Certificates are generally valid for one year, after which a re-certification audit is required to renew the certificate, in accordance with the voluntary scheme's rules and RED II requirements.

After certification, the certification body also carries out mandatory surveillance audits which can be carried out quarterly, half-annually or annually. If a certification body identifies non-conformities, the certificate can suspend (temporarily invalid) or withdrawn permanently.

### *Database for Biofuels (DfB)*

The RED II framework requires the operation of a central database to enable the tracing of renewable liquid and gaseous transport fuels that are eligible for being counted towards targets. A Contracting Party may set up a national database that is linked to the central database of the Energy Community ensuring that information entered is instantly transferred between the databases. If set up, the national Database for Biofuels (DfB) shall include information about biofuels and biogas consumed in the transport sector that are produced, imported and placed on the market under the renewable transport fuel obligation in line with RED II.

Data to be transmitted through the whole supply chain are listed below, in line with Annex I of the Implementing Regulation 2022/996. This information should be in the database and is also a

part of the Proof of Sustainability accompanying every fuel consignment of liquid and gaseous transport fuels.

- (a) name of the voluntary or national scheme;
- (b) proof of sustainability number;
- (c) sustainability and GHG emission savings characteristics, including:
  - (i) statement on whether the raw material or fuel complies with the sustainability criteria
  - (ii) GHG emission data calculated according to the methodology set out in Annexes V and VI to Directive (EU) 2018/2001 or Delegated Regulation (EU) 2019/807;
  - (iii) description of when the installation started operation (for fuels only);
- (d) name of raw material or name of raw material that the fuel is produced from;
- (e) waste or animal by-product permit number (if applicable);
- (f) fuel type (for fuels only);
- (g) country of origin of raw material;
- (h) country of fuel production;
- (i) statement on whether the raw material or fuel complies with the criteria set out for low indirect land-use change-risk biofuels;
- (j) information on whether support has been provided for the production of that consignment, and if so, the type of support scheme.

Data transmitted by trading, are in line with Annex I of the Implementing Regulation 2022/996 and should include:

- (a) supplier company name and address;
- (b) buyer company name and address;
- (c) date of (physical) loading;
- (d) place of (physical) loading or logistical facility or distribution infrastructure entry point;
- (e) place of (physical) delivery or logistical facility or distribution infrastructure exit point;
- (f) volume: For fuels, the energy quantity of the fuel must also be included. For the calculation of the energy quantity, conversion factors in Annex III to Directive (EU) 2018/2001 must be used.

### *Supervision by Contracting Parties*

Under the RED II framework, each Contracting Party must appoint a competent authority to supervise the operation of:

- a) certification bodies that are conducting independent auditing under a recognised voluntary scheme,
- b) economic operators.

The competent authority in charge for supervision can appoint a supervision team considering the competence needed to achieve objective of the supervision or it can outsource this activity if it considers that it does not have internal capacities and competences.

Upon request, the certification body provides competent authorities with all necessary documentation to facilitate supervision, including audit schedules, reports, and locations.

Upon request, voluntary schemes provide access to actual GHG calculations certified under their voluntary scheme together with the respective audit reports to the national authorities responsible for supervision of the certification bodies.

Where a Contracting Party identifies serious or substantiated non-compliance by a certification body, it shall inform the Energy Community Secretariat and, where appropriate, the voluntary scheme concerned.

If a Certification Body is accredited by national authority of a Contracting Party and operates only in this Contracting Party, the supervision of the Certification Body is performed exclusively by the Contracting Party's competent authority. If the Certification Body operates in more than one Contracting Parties, those states must create a common supervision framework, designating one as the lead audit supervisor responsible for consolidating and sharing outcomes. The Contracting Party shall establish procedures allowing certification bodies, regardless of whether their head office is located in a Member State, Contracting Party or in a third country, to register for supervision and for carrying out the supervision.

Supervision of economic operator is performed by national authority in the country where the economic operator is operating. This means that all economic operators in the DfB are subjected

to supervision by national authority. Upon request, economic operator provides all relevant information and evidence used to issue PoS for consignments and allows access for supervision authority. The supervision is conducted on site. The supervision inspects and checks data and documents entered by Certification Body and economic operator into DfB.

### 2.5.2. Obligation of the economic operators within the biofuels supply chain

The obligations of economic operators (EO) that want to, or have to, participate in the sustainability and GHG emissions savings certification slightly differ in respect to their specific role in the supply chain (producer of biofuel vs. obligated fuel supplier). For example, the producer certifies the product (biofuel) and sells it to the fuel supplier that has legal obligation to place the sustainable biofuel on the market.

The general obligations of the economic operator are the following:

- Arranges for an adequate standard of independent auditing (under an Energy Community recognised voluntary scheme or national scheme, if any) for sustainability criteria and GHG emissions.
- Before becoming a part of the scheme, the EO undergoes initial audit (certification audit). It submits to the auditor reliable, thoroughly documented information regarding the compliance with the sustainability and greenhouse gas emissions saving criteria within the chain. The documentation is determined by the type of the operator (e.g. producer or fuel supplier) and by characteristics of the feedstock (e.g. waste or agricultural biomass).

Some of the requirements include:

- demonstration of fulfilment of sustainability and greenhouse gas emissions saving criteria,
- demonstration of usage of mass balance system to assure that each consignment is counted only once in a point,
- provision of information on support provided to produce that consignment,
- low ILUC-risk certification, where applicable, which is additional to sustainability and GHG criteria and



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- verification of waste and residues, including traceability and classification.  
The independent auditing by a recognised scheme shall verify that the systems used by economic operator is accurate, reliable and protected against fraud, including verification ensuring that materials are not intentionally modified or discarded so that the consignment or part thereof could become a waste or residue.
- Upon positive initial audit and acquiring a certificate, EO reports certificate information into national Database for Biofuels (DfB). The certificate is valid for one year.
- EO issues a Proofs of Sustainability (PoS) for all consignments of biofuel placed on the market and enters the data in the DfB. Any transactions between different EO's within the supply chain are documented within the national database (registering entry and exit point). Documentation (PoS) is transmitted together with physical shipments of raw material or fuels through the supply chain.
- All economic operators must use a mass balance system to track sustainability characteristics and GHG emissions along the supply chain.
- EO allows surveillance auditing by certification body and compliance check (surveillance) by national authority and provides all relevant documentation upon request. Records must be retained for a minimum of 5 years, and upon request, made available to the relevant national authorities.
- Fuel supplier makes information on geographic origin, feedstock type, amounts of biofuels and bioliquids placed on the market publicly available on the website and updated annually.
- Fuel supplier reports to the national authority on obligation achievement (according to defined schedule).

### 2.5.3. Obligation of the EnC Contracting Party

The obligations of the EnC CP are the following:

- Defines sustainability and GHG savings criteria requirements according to RED II in the national legislation. Guides the economic operators in submitting accurate and verified



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data regarding compliance with sustainability and greenhouse gas emissions savings criteria, as required by Articles 29 and 30 of the Directive (with clear legislation and guidelines).

- Sets a legal framework for accreditation of certification bodies by CP's accreditation body or an accreditation body of Member State of the European Union.
- Monitors the operation of certification system and performs supervision, including inspections of certification body or an economic operator, to supervise compliance. It establishes procedures allowing certification bodies, regardless of whether their head office is located in, to register for supervision and for carrying out the supervision.
- Implements mechanisms to detect, report, and take corrective action in case of fraud, irregularities, or non-compliance by economic operators or voluntary schemes in line with the provisions of the Regulation 2022/996 as adapted and adopted by the EnC PHLG.
- Establishes and enforces effective, proportionate, and dissuasive penalties for breaches of obligations under the RED II.
- May establish, and if so, oversees a national Database for Biofuels compatible with the centralised database for Energy Community to ensure traceability and oversight of biofuels, bioliquids, and biomass fuels, including all sustainability and transaction data. It monitors the transactions within the national database.
- Defines reporting procedure and submission deadlines for all actors in the supply chain. Proscribes obligations, procedures and deadlines and modes of submission.
- May publish annually publicly accessible information on the geographic origin, feedstock type, and sustainability characteristics of biofuels, bioliquids, and biomass fuels per fuel supplier
- Reports to the Energy Community Secretariat annually, in aggregated form, information on renewable energy targets, biofuels placed on the market, their sustainability characteristics, and associated GHG emissions savings.

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### 3. BENCHMARKING BEST PRACTICES

In the European Union, all Member States have to comply with the obligations arising from Articles 25–31 of RED II, and, as of May 2025, with the respective provisions of the amended RED Directive, known as REDIII<sup>12</sup> on renewable transport fuels, notably a 14% renewables-in-transport target by 2030 (with national baselines), mandatory GHG savings, and strict sustainability criteria (biodiversity safeguards, GHG thresholds, certification). However, each country's obligation scheme reflects its market and institutional context.

For example, Ireland administers a simple tradable-certificate RTFO noted for “market-driven compliance flexibility and real-time monitoring”, whereas the Netherlands uses a segmented certificate scheme (*Hernieuwbare BrandstofEenheden*, HBEs) with detailed auditing rules.

The following case studies summarize how Ireland and the Netherlands implement RED II Articles 25–31: including RES-T targets and the respective calculation rules, specific rules for biofuels, bioliquids and biomass fuels (Articles 25–27), sustainability and GHG emissions saving criteria and their verification (Articles 29–31). Furthermore, certification, designated institutions, compliance mechanisms, and integration of electricity and advanced fuels on the market, highlighting lessons for Moldova (e.g. ensuring flexibility, enforceability, data integrity, and administrative feasibility).

In addition, the key elements of Denmark's biomethane injection system are also presented as an example of best practice (legal and institutional framework, support schemes and certification, certificates and payments, system operation, sustainability and quality assurance, and monitoring, enforcement and penalties).

#### 3.1. Ireland's Renewable Transport Fuel Obligation

- **Background and Targets:** Ireland's RTFO evolved from the 2010 Biofuel Obligation Scheme, which mandated rising biofuel blends (from 4% in 2010 to ~21% by 2024). Under RED II, Ireland must ensure a 14% renewable transport share by 2030. In practice, Ireland set more ambitious interim goals: for example, the 2025 RTFO was raised to 21% (energy basis) and 25% for 2025. An advanced biofuels sub-target (Annex IX of

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<sup>12</sup> In the European Union, RED II was amended by Directive (EU) 2023/2413 of the European Parliament and of the Council of 18 October 2023, hence the usual reference to the so-called RED III



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REDII) is phased in: 0% before 2023, 0.1% in 2024 and 1.5% in 2025 (rising thereafter). These targets align with Ireland's climate plans (e.g. E10 and B20 blending mandates by 2030) and provide a clear multi-year trajectory for obligated fuel suppliers.

- **Obligated fuel suppliers** are primarily fuel suppliers, specifically, companies (and large oil consumers) who supply mineral oil (petrol, diesel) for transport and who are liable to pay the NORA (National Oil Reserves Agency, a State agency under the Department of Transport) levy. By statute, NORA automatically opens an RTFO account for any entity already subject to the NORA oil stocks levy. Other businesses (e.g. independent biofuel suppliers) not subject to the levy may apply to NORA to hold a voluntary RTFO account. In practical terms, almost all importers or refiners of transport fuel are covered. Equally, any renewable fuel injected into road transport networks, such as biomethane for CNG vehicles or green electricity at public EV chargers, can generate certificates creditable against the RTFO. In summary, any company owning transport fuel at the tax/duty point in Ireland is an obligated party and must either supply sufficient renewable fuel (or purchase certificates) to meet the RTFO, or pay the statutory buy out fee.
- **Sustainability and GHG Emissions Saving Criteria:** All renewable fuels must meet EU sustainability and GHG emissions saving rules. Producers obtain certification via approved voluntary schemes (e.g. ISCC, REDcert) to prove compliance. The RTFO requires minimum lifecycle GHG emissions saving (typically  $\geq 50-60\%$  compared to fossil fuel comparators, depending on technology). High ILUC-risk biofuels (e.g. palm and soybean) are effectively banned: Ireland has capped food-crop biofuels at  $\sim 2.3-2.4\%$  of transport energy and plans to eliminate palm oil by 2030. Biomethane (renewable gas) is integrated: Gas Networks Ireland issues Guarantees of Origin, and once biomethane is injected into the transport network NORA (National Oil Reserves Agency, a State agency under the Department of Transport) issues RTFO certificates.
- **Certification and Verification:** Obligated suppliers apply for RTFO certificates (RTFCs) via NORA's online registry. Each RTFC (1 MJ of qualifying fuel) is only issued after independent verification of sustainability and GHG emissions saving criteria. RTFCs are

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color-coded by feedstock (green for Annex IX A, red for food and feed crops, orange for all other compliant biofuels). NORA's digital system enforces the rules: it validates sustainability certificates, tracks certificate balances, and flags any shortfalls. Suspicious or non-compliant claims trigger audits; fraudulent RTFCs can be revoked, and offenders can face penalties.

- **Institutional Roles:** The scheme is administered by NORA. NORA maintains the registry, issues RTFCs, and enforces compliance. The Minister for Transport (via statutory instruments) sets the annual RTFO rate, sub-target and buy-out charge. Technical support comes from other bodies: e.g. the EPA (Environmental Protection Agency) and NSAI (National Standards Authority of Ireland) advise on novel biofuel pathways, and the Sustainable Energy Authority of Ireland (SEAI) models energy data and tracks RTFO progress. The Department of Climate, Energy and the Environment coordinates EU transposition and cross-sectoral policy. This clear division between one agency (NORA) running the market registry and enforcement, and government setting targets, has kept administration lean.
- **Monitoring, Compliance and Penalties:** NORA's online platform requires obligated suppliers to report fuel volumes and certification claims quarterly, with an annual reconciliation by March. After each quarter NORA validates claims and issues RTFCs; a "Final Statement of Account" is issued early in the following year. By April 30, suppliers must surrender RTFCs equal to their obligation. Shortfalls are covered by the statutory buy-out fee: currently €0.05/MJ for general shortfalls and €0.08/MJ for advanced biofuels shortfalls. This fixed fee caps the cost of non-compliance and provides a predictable alternative to having to purchase certificates. NORA also has audit powers: it can rescind RTFCs and refer serious breaches to enforcement authorities. In practice, the buy-out payment is the main penalty (fraudulent schemes are subject to additional sanctions). Overall, routine data collection plus financial penalties and audits have ensured that almost all obliged fuel suppliers the RTFO.
- **Renewable Electricity and RFNBOs:** Ireland is extending its RTFO to e-mobility and RFNBOs. The 2025–27 policy introduces credits for renewable electricity at EV

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charging stations: one “electricity RTFC” is granted per unit of green energy supplied. This reward (effectively treating green charging as fuel displacement) incentivizes investment in low-carbon transport power. Similarly, future sub-targets and respective credits are planned for Renewable Fuels of Non-Biological Origin (RFNBOs, e.g. green hydrogen or synthetic fuels). Biomethane from the grid already earns RTFCs as noted above. These additions broaden the RTFO beyond liquid biofuels, aligning it with EU’s policy objectives on electrification and hydrogen use in transport.

- **Lessons Learned for Establishing RTFO Frameworks in New Markets:** Ireland’s model illustrates that a straightforward, market-based RTFO can work well in a small market. Using tradable RTFCs provides compliance flexibility, while a fixed buy-out fee (limiting non-compliance cost) ensures enforceability. A strong IT registry (NORA’s platform) maintains data integrity and automates enforcement rules. Crucially, administration is lean and self-funded: NORA runs the scheme with minimal levies (e.g. a €0.001/L biofuel levy to obligated suppliers covers the costs) and charges no transaction fees. Key takeaways for new RTFOs are therefore: set clear, phased targets; define obligated parties [e.g. primarily fuel suppliers, specifically, companies (and large oil consumers) who supply mineral oil (petrol, diesel) for transport] and consider thresholds to exempt very small suppliers; require certified sustainability via recognized schemes; and implement a centralized registry to track fuel deliveries and certificate balances. A combination of routine reporting (for data integrity) and a binding financial penalty (buy-out or fine) can enforce compliance without heavy bureaucracy. The Irish experience confirms that leveraging existing institutions (like NORA) and minimizing fees keeps the scheme administratively feasible and transparent.

### 3.2. The Netherlands' "Energy for Transport" System

- **Background and Targets:** The Netherlands introduced a mandatory renewable-fuel obligation in 2015 to meet earlier EU biofuels targets. RED II (14% by 2030) was transposed in 2022 (through Environmental Management Act). The current scheme uses tradable units called *Hernieuwbare Brandstof Eenheden* (HBEs). It imposes an ambitious trajectory: renewable content in road fuels rises from 17.9% in 2022 to ~28% by 2030. A minimum advanced biofuel sub-target climbs from 2.4% in 2023 to 7.0% by 2030. Large caps are imposed: conventional crop biofuels are limited to 1.4% of energy, and at least ~75% of renewable inputs must come from feedstocks listed in Annex IX of REDII). In effect, virtually all compliance is planned from biofuels produced from feedstocks listed in Annex IX A and B of REDII, with minimal share of biofuels produced from conventional crops.
- **Sustainability and GHG Emissions Saving Criteria:** Dutch law adopts EU sustainability rules in full. All biofuels, biogas, electricity or hydrogen used for transport must be certified (via voluntary schemes) to prove  $\geq 50\%$  GHG emissions savings compared to fossil fuel comparators (rising to 70% for new plants that started production after 2017). Biofuels from high ILUC-risk feedstocks (palm, soybean) are explicitly banned. No uncertified biofuel can generate HBEs. NEa (Dutch Emissions Authority) assigns each registered HBE a fixed CO<sub>2</sub>-reduction value (the "HBE-reductiebijdrage") so that cumulative HBEs also realize the 6% fuel-cycle CO<sub>2</sub> cut. Renewable electricity to EVs and green hydrogen each earn HBEs multiplied by efficiency factors (4x for electricity, 2.5x for H<sub>2</sub>), reflecting their higher effective savings. This structure ensures sustainability is enforced at the fuel-source level, with GHG savings outcomes built into the certificate accounting.
- **Certification and Verification:** The Dutch system requires strict auditing of all renewable inputs. Participating fuel and/or electricity suppliers must obtain verification from accredited auditors: each entry into the Renewable Energy Transport Register (REV) must be backed by a Verification Certificate from an RvA (Dutch Accreditation Council)



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accredited verifier. The REV is a database that records fuel volumes and HBE balances. NEa reviews the data and conducts inspections: it cross-checks reported deliveries against Customs/excise data. Any failure of certification or data inconsistency means no HBEs are granted. In practice, this two-tier check (company-supplied verifiers plus NEa audits) ensures high data integrity.

- **Obligated fuel suppliers** are all companies that supply transport fuels in the Dutch market. In practice, this means licensed excise warehouses and excise-registered consignees for petrol, diesel and heavy oil, as well as importers of those fuels, when those fuels are delivered for transport use. Key obligated fuels include petrol (benzine), diesel (gasoil), liquefied petroleum gas (LPG) and fuels supplied to road, inland-waterway and certain agricultural vehicles. Heavy fuel oil (HFO) counts only if sold to domestic vessels (marine shipping within the Netherlands). Companies with annual deliveries below 500,000 L (diesel-equivalent) are exempt from the HBE requirement.
- **Institutional Roles:** Policy and legislation are set by the Ministry of Infrastructure and Water Management (IenW), supported by the Netherlands Enterprise Agency (RVO) for guidance. The Netherlands Emissions Authority (NEa) implements the scheme: it operates the REV, accredits auditors, issues guidance, and enforces compliance. NEa has legal authority to audit reports and levy fines. Supporting bodies include the Accreditation Council (RvA), which certifies private auditors, and the Customs and Excise Service, which supplies fuel sales data for verification. This clear institutional framework, i.e. IenW/RVO for policy, NEa for execution, plus statutory auditors, provides a robust governance model.
- **Monitoring, Compliance and Penalties:** Compliance is governed by NEa using the REV. Obligated companies register all fuel deliveries and HBE creation in the REV. Each year, NEa calculates the required HBE quota (in GJ) from reported fuel data. Companies must hold or purchase the required HBEs by April 30 each year; NEa then closes accounts. NEa enforces compliance through data audits and site inspections and retains strong sanction powers. Any shortfall can be officially determined and fines imposed under the Environment Act. The penalty system is graduated: minor errors

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incur warnings, while serious breaches trigger substantial fines. NEa can even correct inaccurate records up to five years later, enforcing data accuracy.

- **Renewable Electricity and RFNBOs:** The Dutch obligation fully integrates e-mobility and RFNBOs. Renewable electricity supplied to EVs (metred on dedicated or sub-metred connections) generates “HBE-Other” certificates with a multiplier. Liquid or gaseous renewable fuels also qualify under HBE-Other with a multiplier. In effect, EV charging and hydrogen refuelling count toward the transport target. Biomethane and renewable hydrogen from approved suppliers similarly earn HBEs (as HBE-Other) under these rules.
- **Lessons for Establishing RTFO Frameworks in New Markets:** The Dutch experience underscores the value of a comprehensive registry and audit framework. Segmented certificates (HBEs) ensure fuels from feedstocks listed in Annex IX of REDII carry higher weight (enforcing sub-targets), and mandatory third-party auditing for every delivery builds trust in the data. Crucially, strict verification ensures enforceability: NEa’s authority to audit records for years after creates a strong deterrent. That said, the Dutch scheme’s general budget funding (no per-unit fees) and stable low-cost registry show that a well-designed market mechanism can operate efficiently without heavy charges to industry. In sum, key takeaways for new RTFOs are: establish a secure, user-friendly IT registry, require independent certification of every renewable input, define clear penalties for shortfalls, and ensure obligations phase up predictably. Including electricity and RFNBO fuels with fixed multipliers (as NL does) can broaden impact. By combining flexible certificate trading with rigorous data controls and low administrative overhead, policymakers can craft an enforceable and transparent RTFO.

### 3.3. Denmark's biomethane injection system

- **Role of biomethane in transport:** Denmark is among Europe's leading producers of biomethane, with approximately 40% of natural gas consumption covered by biomethane in 2023. While most biomethane is used across heating, industry, and power generation, Denmark has also enabled its use in the transport sector, particularly for compressed natural gas (CNG) vehicles and, increasingly, for renewable fuel claims by transport fuel suppliers through certificate-based mechanisms. This makes Denmark a relevant best-practice example for integrating grid-injected biomethane into transport decarbonisation policies.
- **Legal and institutional framework (overview):** Denmark has established a comprehensive legal framework for biomethane injection and certification, primarily under the Gas Supply Act and the Promotion of Renewable Energy Act. These laws transpose EU RED II/III sustainability and GHG emissions saving criteria for biomass fuels and define the roles of competent authorities. The Danish Energy Agency (DEA) oversees regulation, sustainability compliance, and support schemes, while Energinet, the national transmission system operator for electricity and gas, operates the gas grid and the Guarantees of Origin (GO) registry for renewable gases.
- **Biomethane registry and Guarantees of Origin:** All grid-injected biomethane is metered, quality-controlled, and registered by Energinet. For each verified megawatt-hour of injected biomethane, Energinet issues a Guarantee of Origin (GO) certifying the gas's renewable attribute. GOs include key information such as production facility, feedstock category, production period, GHG emissions performance, and whether the production has received public support. GOs are tradable and may be transferred independently of the physical gas, enabling market-based allocation of the renewable attribute. To avoid double counting, Danish state-aid rules require transparency on subsidy status: where biomethane production receives operational support, this is explicitly flagged in the GO. Producers may opt to renounce support in order to commercialise unsubsidised GOs for compliance or voluntary markets.
- **Use of biomethane in transport and interface with fuel supplier obligations:** Denmark



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does not impose a blending mandate or quota obligation on gas suppliers. Instead, biomethane contributes to transport decarbonisation through a certificate-based approach. Transport fuel suppliers subject to CO<sub>2</sub> reduction or renewable energy obligations may use cancelled biomethane GOs as documentary evidence of renewable gas use in transport, on a mass-balance basis, provided sustainability and GHG emissions saving criteria under RED II/III are met.

Importantly, the GO registry operated by Energinet is not directly integrated with any renewable transport fuel obligation registry. Compliance with fuel supplier obligations is handled through separate reporting to the Danish Energy Agency, with GO cancellations serving as supporting evidence rather than automatic compliance instruments. This separation of functions, attribute tracking via GOs and obligation compliance via administrative reporting, provides flexibility while maintaining regulatory control.

Direct physical use of biomethane also occurs in the transport sector, notably in CNG vehicles supplied via the gas grid. In such cases, the renewable nature of the fuel is typically claimed through the cancellation of corresponding GOs rather than physical segregation of gas molecules.

- **Institutional Roles:**
  - **Danish Energy Agency (DEA)**, under the Ministry of Climate, Energy and Utilities, oversees the framework. DEA issues permits, sets detailed regulations, conducts tenders, and audits compliance. DEA also administers the subsidy registry and can impose penalties (fines and subsidy clawbacks) for breaches of scheme rules or sustainability requirements.
  - **Danish Utility Regulator (DUR) (Forsyningstilsynet)**<sup>13</sup> was established in 2018 by the Law on the Danish Utility Regulator to secure consumer interests in the utility sectors (electricity, natural gas, and district heating). In the gas sector, DUR enforces the Gas Supply Act, ensuring non-discriminatory access and adherence to technical standards.

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<sup>13</sup> <https://forsyningstilsynet.dk/about-us>



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- **State-owned TSO (Energinet)**<sup>14</sup> handles network operations and the GO registry. It processes grid connection requests, performs feasibility studies, and negotiates technical injection agreements under the “right-to-inject” principle. Energinet also monitors gas quality at entry points and issues renewable GOs for injected biomethane volumes. Local DSOs manage smaller connections.
- **National accreditation body (DANAK)**<sup>15</sup> accredits third-party verifiers who audit plant compliance.
- **Plant operators** and their investors carry out the development, construction, and operation of the plant. Farmers and waste processors supply biomass; they are contractually tied to meet the criteria confirmed in verification.
- **Best-practice lessons for scheme design:** Denmark’s biomethane framework illustrates several transferable best practices for transport fuel policy design:
  - **Grid injection combined with GO-based tracking** allows biomethane to serve multiple end uses, including transport, without physical segregation.
  - **Clear separation between registries** (GO registry vs. fuel obligation reporting) avoids system complexity while preventing double counting.
  - **Transparency on subsidy status** ensures compatibility with state-aid rules and preserves market integrity.
  - **Technology-neutral integration** enables biomethane to compete alongside electricity and other renewable fuels in transport decarbonisation strategies.

For countries designing new renewable transport fuel frameworks, Denmark demonstrates how biomethane can be integrated through certification and reporting mechanisms rather than mandatory blending, while still ensuring robust sustainability compliance and traceability

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<sup>14</sup> <https://en.energinet.dk/about-us/>

<sup>15</sup> <https://danak.org/>

## 4. COUNTRY CONTEXT ANALYSIS

### 4.1. National fuel supply chain

The oil and petroleum products market in Moldova is entirely dependent on imports. In 2024, there was only a small production of crude oil (2 ktoe). The total annual consumption of oil and petroleum products in 2024 amounted to 1,103 ktoe, of which 76% was consumed in the transport sector. Consumption of petroleum products in the transport sector in Moldova amounted to 838 ktoe in 2024, with diesel fuel accounting for the largest share (68.3%). Motor gasoline accounted for 23.7% of total transport consumption, Jet fuel accounted for 7%, while NGL accounted for only 1.0%.

**Table 3. Balance of NGL, Motor gasoline, Jet fuel and Diesel oil in Moldova in 2024**

ktoe	NGL (1000 t)	Motor gasoline	Jet fuel	Diesel oil
Import	62	206	60	711
Export	1	0	0	4
Total consumption	62	200	59	700
Transport sector consumption	8	199	59	572

Source: National bureau of the statistics of the Republic of Moldova

In terms of transport modes, the highest consumption of petroleum products was achieved in road transport (92.1%), followed by air transport (7%), while the remaining quantities were consumed in rail transport (0.7%) and non-specified transport (0.1%).

**Table 4. Consumption of petroleum products in the transport sector according to the modes of transport**

ktoe	NGL (1000 t)	Motor gasoline	Jet fuel	Diesel oil	Total
Rail transport	0	0	0	6	6
Road transport	8	199	0	565	772
Air transport	0	0	59	0	59
Not specified (transport)	0	0	0	1	1
Total	8	199	59	572	838

Source: National bureau of the statistics of the Republic of Moldova

## 4.2. Petroleum products market in Moldova

The regulatory authority responsible for regulating and monitoring the energy sector (natural gas, electricity, thermal energy, renewable energy, petroleum products) and the water supply and sewerage in Moldova is the National Agency for Energy Regulation (ANRE).

The Moldovan oil market is supplied by private companies licensed by ANRE for the import and wholesale and/or retail trade of petroleum products. Although 44 companies are licensed for the import and wholesale trade of gasoline and diesel (based on data as of May 5, 2025), the Moldovan oil market is heavily concentrated among three companies (about 79% market share of import of diesel, gasoline and LPG).

The largest quantities of petroleum products are imported from Romania, with Romania accounting for around 99% of motor gasoline imports, around 74% of diesel fuel imports and around 69% of NGL imports in 2024.

In Moldova, there was a small consumption of natural gas in road transport (8 ktoe) in 2024. In 2024, there was a small production of biogas (8 ktoe), consumed for electricity and heat generation, and in the industry sector.

## 4.3. Indicative RES-T targets

According to the RES-T targets defined in the NECP, the target share of RES in transport sector is 3.2% for 2025, and 6.9% for 2030 (taking into account the multipliers according to RED II). RED II prescribes a minimum 14% share of energy from renewable sources by 2030 with certain flexibility to reduce the target by a maximum of 7%. It follows that the RES-T target defined under the NECP of 6.9% is not in line with RED-II.

Given that the NECP does not define the target shares for RES in individual years between 2025 and 2030, it will be necessary to define it through by-laws.

Below is a proposal for the indicative annual RES-T targets, taking into account the 2030 target defined in the NECP, RED II requirements and the current state of the Moldovan petroleum products market.

The contribution of electricity from renewable sources, taking into account the planned development measures in this segment, with the electrification of road transport and an increase in the number of electric vehicles, could increase to 0.3% in 2030. Regarding specific sub-targets, advanced biofuels and biofuels and biogas from specific feedstocks must reach a minimum share of 3.5% in 2030 according to RED II. The remaining share of renewable energy until the RES-T target is met in a given year can be fulfilled by using biofuels from UCO, while care should be taken that biofuels from UCO do not exceed the share of 3.4 percentage points (including the multiplier). If the option from the RED II Directive to reduce the RES-T target by 7% is applied, then the share of biofuels, bioliquids and biomass fuels produced from food and feed crops should be 0%.

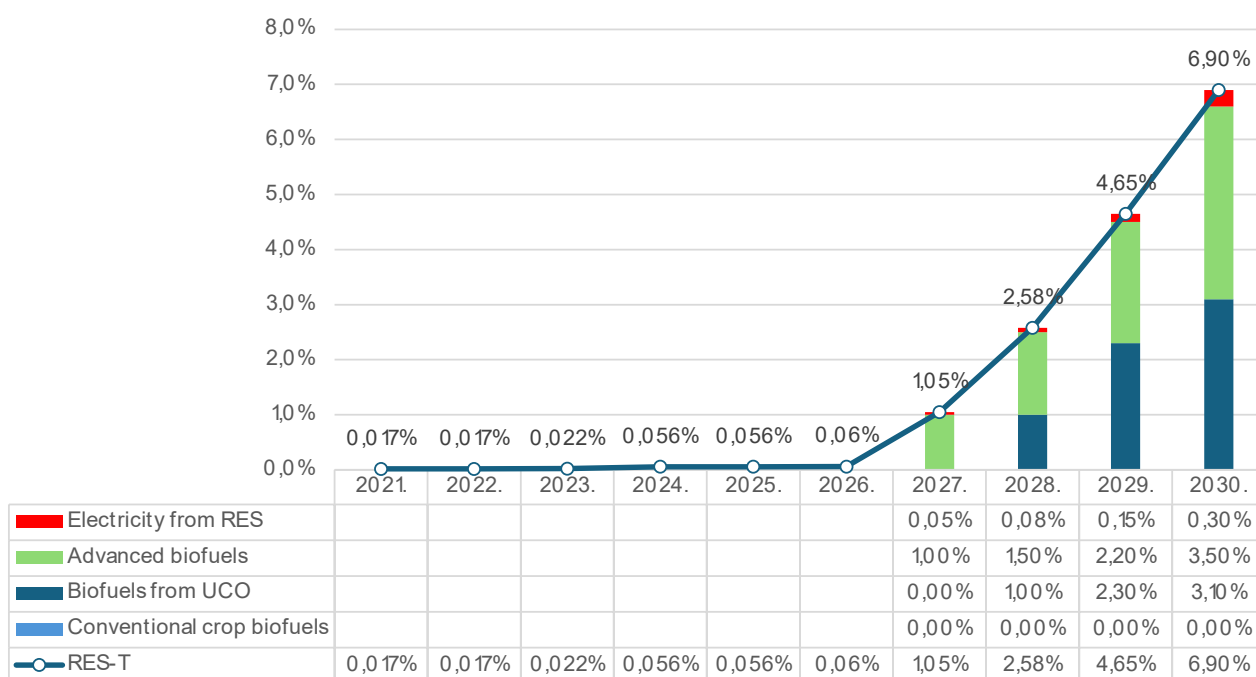


Figure 1. Indicative yearly RES-T targets according to the type of renewable energy (including the multipliers)

## 5. DESIGN CONCEPTS FOR MAINSTREAMING RENEWABLE ENERGY USE IN THE TRANSPORT SECTOR

The proposed system for meeting the RES-T is based on several key elements:

- Defining the obligation to place renewable energy on the market for transport needs,
- Establishing a system for verification of compliance with the sustainability and greenhouse gas emissions saving criteria and
- Managing and controlling the entire system.

The system defines the parties obliged to place renewable energy on the market for transport needs. Fuel suppliers obliged to place renewable energy in transport are those who place diesel fuel or motor gasoline on the market for road and rail transport and are considered subject to excise duties under a special law regulating excise duties. The amount of renewable energy that the obligated fuel supplier is required to place on the market in a given calendar year is proportional to the amount of motor gasoline, diesel fuel, and natural gas that the obligated fuel supplier puts on the market in that year. The share of renewable energy that the party obliged to place on the market in a given year is equal to the Moldova RES-T set for that year.

The proposal is that companies with annual delivery below some threshold (expressed in MJ/year) are exempt from the obligation. This exemption must be defined by the relevant legislation.

Renewable energy that the obligated fuel supplier places on the market must meet the prescribed sustainability criteria to be counted toward fulfilling the obligation and the Moldovan RES-T goal. Legal framework for the verification of sustainability criteria and greenhouse gas savings and Database for Biofuels (DfB) through which verification is monitored and certificates of sustainability are entered should be fully align with RED II provisions.

In the proposed concept, the Government approves voluntary schemes, based on proposal of the Ministry of Environment, to enable their operation in Moldova. MOLDAC accredits the certification body that performs the independent audit of the economic operators under the voluntary scheme. The Ministry of Environment approves operation of accredited certification bodies in Moldova. Environmental agency supervises the operation of certification bodies and keeps

record of all accredited and approved certification bodies, including the certificates issued by them.

Economic operator arranges for independent audit performed by verifiers operating under the certification body. Upon positive results of the verification audit, certification body issues the sustainability certificate that confirms the sustainability and GHG emissions saving compliance and, where required, low indirect land-use change-risk compliance. Certificate enables economic operator to issue Proof of sustainability for each consignment of biofuels. Economic operators submit PoS, sustainability certificate and additional data into the Database for biofuels or directly to relevant authority (Environmental Agency). Other relevant actors have access to the database to submit additional information and verify submitted information by economic operator. The Database is established and operated by the National Centre for Sustainable Energy (NCSE) - Database Administrator.

The Environmental Agency shall have access to the Database for the purpose of verifying compliance with the established criteria and reviewing documents uploaded by economic operators. The Agency inspects and approves information and documents submitted. Accreditation body, in coordination with Environmental Agency, is in charge for periodical supervision of economic operators and certification bodies.

Environmental Agency shall prepare and upload annual reports to the Database, which will subsequently be extracted and together with information from RTF Registry, compiled, checked and transmitted by NCSE to the Energy Community.

As such, a database is not mandatory under RED II, in the initial phase, it could be organised through a simple database recording the Proofs of Sustainability, sustainability certificates and supporting information and documents.

Upon approval from the Environmental Agency indicating that all relevant data had been submitted, the renewable transport certificates (RTF Certificate) are issued by Database administrator (NCSE) to the obligated fuel supplier. The RTF Certificate is issued for each unit of renewable energy that the obligated fuel supplier has placed on the market. The obligated fuel supplier enters the obtained certificate for placing renewable biofuels on the market (RTF Certificate) into the Renewable Transport Fuel Registry (RTF Registry) administrated by National Agency for Energy Regulation. The obligated fuel suppliers can trade the obtained certificates among themselves through the RTF Registry.

The obligated fuel supplier prepares the Plan for placing renewable energy on the market for transport needs every year for the following year (obligation year). At the end of the obligation year, the obligated fuel supplier prepares the Report on the fulfilment of the obligation to place renewable energy on the market for transport needs. If the obligated fuel supplier has not partially or fully fulfilled its obligation to place renewable energy on the market for transport needs, it must pay compensation for failure to fulfil its obligation.

National Centre for Sustainable Energy tracks all transactions, collects data on biofuels and reports to EnCS on the share of renewable energy in final energy consumption in the transport sector.

The diagram below outlines the concept of verification of compliance with the sustainability and greenhouse gas emissions saving criteria.

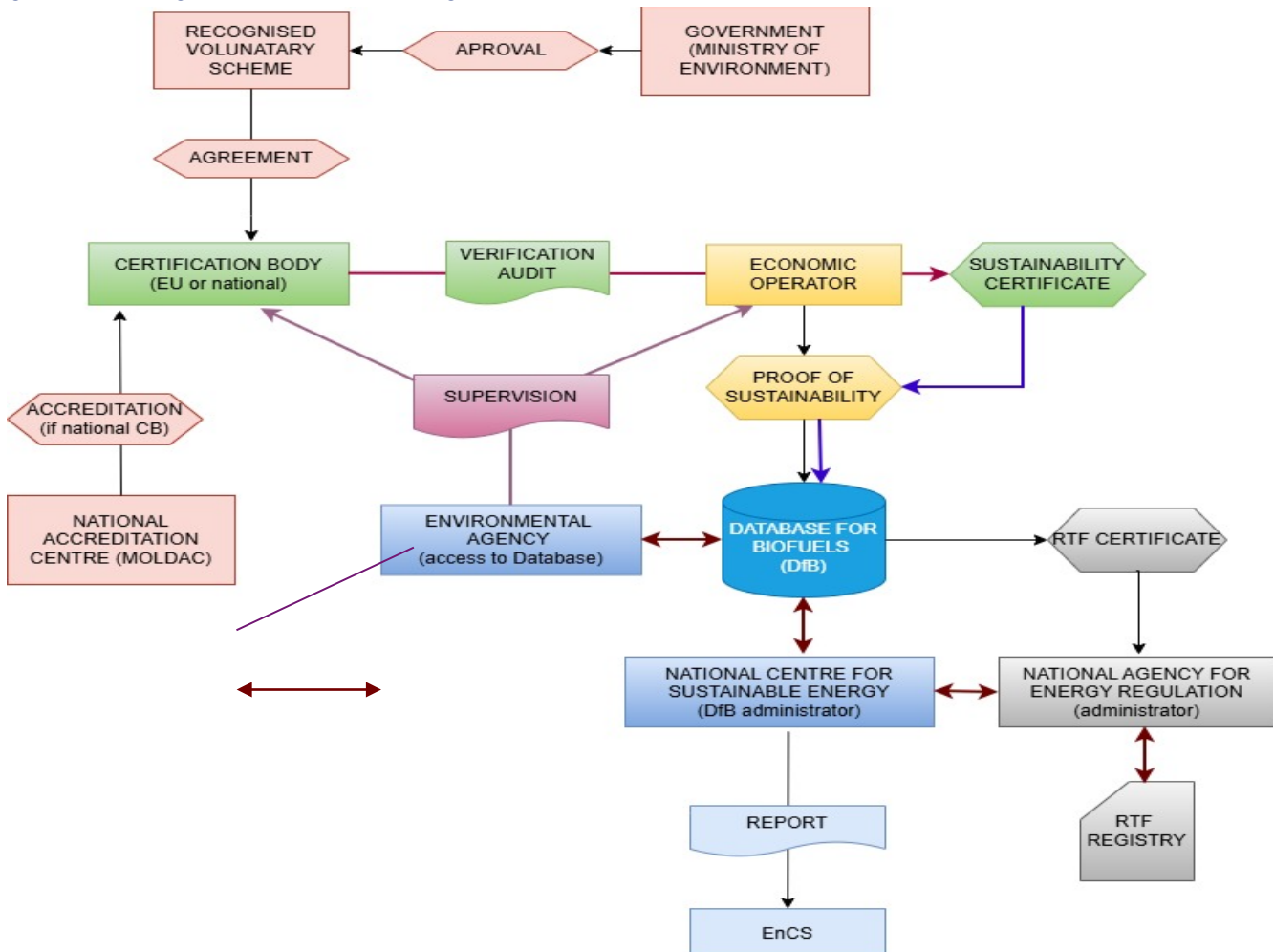


Figure 2. Scheme of proposed institutional responsibilities within the proposed sustainability and GHG emission compliance system

## 5.1. Concept for implementation, verification and monitoring of the obligation for fuel suppliers to place renewable fuels on the market in Moldova

### 5.1.1. Renewable Energy Targets and Timelines

Moldova's gradual transition towards renewable transport energy requires a structured and realistic implementation pathway. While the NECP defines the 2030 target (6.9% renewable energy share in transport), achieving it will require predictable annual milestones that provide clarity to economic operators, investors and public institutions.

A phased approach, beginning with modest initial obligations and gradually increasing them, is essential.

Rationale: starting with modest mandatory shares gives time for the registry, accreditation, and auditing systems to be tested; it allows supply chains for certified biofuels to be established without creating price shocks; it gives domestic producers time to register and build production capacity under the ANRE draft registry. Where feasible, the regulation should also include **advanced biofuels sub-targets** (even if small initially), and explicit multipliers for renewable electricity and RFNBOs, to incentivise higher-value net GHG savings.

### 5.1.2. Obligated Parties

**Obligated fuel suppliers:** entities that place petrol and diesel on the Moldovan market at the excise point; typically, importers and any domestic producers that pay excise.

The proposal is that Companies with annual delivery below a certain threshold (expressed in MJ/year) are exempt from the obligation. Also, fuels placed on the market for the purposes of establishing mandatory stocks of oil and petroleum products and military reserves could be exempted from the obligation. This exemption must be defined by the relevant legislation.

### 5.1.3. Tradable Certificate Systems

- **Renewable transport fuel certificates (RTFCs):** The scheme should create tradable certificates to represent compliance. Each certificate corresponds to 1 MJ of qualified renewable transport fuel. Obligated suppliers receive certificates for the renewable fuel they supply (after verification) and must surrender a number of certificates equal to their obligation.
- **Trading mechanism:** Certificates can be bought, sold or transferred among parties via the registry. This enables suppliers who produce or import excess renewable fuel (or purchase it) to sell certificates to others. The option to trade encourages cost-effective compliance: cheap renewable fuels (or excess production) can be monetized, while those struggling to supply enough can purchase credits rather than pay penalties. The legal framework should explicitly permit such certificate trading.
- **Certification of units:** It is good practice to “colour-code” certificates by fuel category (e.g. separate credit for Annex IX-A fuels vs. conventional biofuels), though this is a technical detail. At minimum, ensure advanced fuels (Annex IX-A) and RFNBOs are identifiable, as they often carry double credit.

### 5.1.4. Obligation Monitoring and Reporting Registry (RTF Registry)

- **Electronic registry:** An online Registry will be needed to implement the certificate scheme. All obligated parties, producers of renewable fuel, and certifiers, will have accounts on the Registry. Every transaction (fuel reported, certificates issued or surrendered, trades) is logged here.
- **Data flow and controls:** Fuel suppliers report quantities of motor gasoline, diesel fuel, natural gas and electricity placed on the market for transport purposes. They also report on quantities, types, and origin of biofuels, renewable fuels from recycled carbon and renewable fuels of non-biological origin placed on the market for transport purposes. The Registry records RTFCs for eligible fuels as they are reported and certified. At the end of each compliance period (calendar year), the Registry will

calculate each party's obligation and outstanding certificates. It will then show who must surrender additional certificates and who can carry over or sell theirs. This transparent system provides an auditable trail of compliance.

### 5.1.5. Integration of Renewable Electricity and E-Mobility

- **E-Mobility crediting:** The scheme should explicitly allow renewable electricity used for transport to earn RTFC credits. In practice, charging stations operators or grid suppliers must be able to certify that kWh come from renewables. Each kWh would count at an established multiplier toward the supplier's obligation. This provides strong incentive to expand green charging infrastructure.
- **Hydrogen and gases:** Renewable hydrogen, biomethane and synthetic e-fuels should be treated as renewable energy in transport as well. National rules should define how these fuels are certified (e.g. by GHG accounting methods under Annex V of RED II).
- **System integration:** Support measures (e.g. grid upgrades, H<sub>2</sub> corridors) are outside the RTFO per se, but legislation should not preclude counting these technologies. For example, any mandates or incentives to build EV chargers or hydrogen stations will help the RTFO work. In summary, the RTFO design should encompass all renewable transport pathways, liquid biofuels, biogas, hydrogen and electricity, under a unified compliance framework.

## 5.2. Concept for implementation and verification of sustainability and GHG emissions saving criteria for biofuels, bioliquids and biomass fuels

### 5.2.1. Recognition of certification schemes, accreditation of certification bodies

- **Approval of voluntary schemes:** The approval of voluntary schemes is assigned to the Government upon the proposal of Ministry of Environment. Procedure of the approval of voluntary schemes from the Government should be provided. The national voluntary scheme, if established in the future, must be approved by Energy Community



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- **Accreditation and authorization of certification bodies:** In order to operate and perform independent audits under a voluntary scheme, a certification body must be accredited against EN ISO/IEC 17065, and, when conducting verification activities, also EN ISO/IEC 17029 and EN ISO 14065. The accreditation shall be conducted by a national accreditation body of Moldova (the National Accreditation Centre of the Republic of Moldova - MOLDAC) or of a Member State of the European Union and always (i) in accordance with Regulation (EC) No 765/2008 and (ii) if applicable, the European Accreditation Multilateral Agreement. The accreditation must cover a specific scope of certification under the applicable voluntary or national scheme within the meaning of Directive (EU) 2018/2001, adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC and 2022/02/MC-EnC.
- Furthermore, certification body should be approved by central body for environment, regardless of the country of origin of the accreditation body. The list of all approved certification bodies and certificates that they have issued for economic operators at the territory of the Republic of Moldova should be stored at on place, preferably in the Database for Biofuels (DfB).

### 5.2.2. Establishment of independent audit procedures

- **Clear guidance on obligations for all economic operators:** The legislation should provide clear guidance for all economic operators on obligations in terms of sustainability compliance and GHG emissions saving criteria. Upgrade existing legislation documents to address all economic operators in the supply chain. Every economic operator in the chain of cultivation and conversion of biomass to biofuels must provide purchasers in the next step information about the certificate it has obtained and the sustainability characteristics of the product it delivers.
- **Sustainability and GHG emission savings compliance and low indirect land-use change-risk certificate:** If compliance is verified through independent audit, the certification body issues a sustainability certificate to the economic operator. The



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voluntary scheme publishes the certificate in its online registry. The economic operator uploads the certificate to the Database for Biofuels. Sustainability compliance certificates are typically valid for one year, subject to annual surveillance audits by certification body (within six months for waste biofuels). In terms of auditing waste and residues there should be no tolerance to deliberate misstatement of raw material description, falsification of GHG values or input data as well as the deliberate production of wastes or residues. When an economic operator is certified by recognised voluntary scheme, further evidence of compliance with sustainability criteria are not required.

### 5.2.3. Reporting information on biofuels and their characteristics

- **Establish Database of Biofuels (DfB):** The Database for Biofuels is a web-based platform where information is submitted electronically by registered users. The database is established, maintained and updated by authority responsible for environmental protection (DfB administrator - Environmental Agency). The authority approves requests for registration from the relevant stakeholders. The Database should serve as a central point for biofuels recording and tracking and should enable the upload of certificates of compliance with sustainability and GHG emission saving criteria. Economic operators should be required to enter information on transactions and the sustainability characteristics of the fuels, including life-cycle greenhouse gas emissions. The Database for Biofuels tracks each consignment of sustainable fuel from its entry into the system through to its final use. All economic operators in the renewable transport fuel value chain must register and submit the relevant data, from production through to the fuel supplier placing the fuel on the market, so that the authority can cross-check volumes and ensure no double-counting.

The Government has foreseen establishment of the Register of Biofuel Producers and the Register of Local Industrial Plants for the Blending of Biofuels and Fuels (managed by NAER) but not a registry of all participants in biofuel life cycle where also sustainability and GHG characteristics would be recorded. Therefore, we propose



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creation of database of Biofuels that could relate to other planned Registers in order to trace the consignment of biofuel from its entry point to the exit on the market.

- **Registration and entry of information:** All operators in the sustainable biofuels sector, covering all liquid and gaseous fuels (excluding solid fuels from biomass) are required to register. These operators include (but are not limited to) the following players:
    - economic operator (first gathering points - agricultural biomass and waste & residues, traders, processing plants, fuel suppliers,
    - certification bodies;
    - voluntary schemes;
    - authorities relevant for supervision.
  - After logging in, users have access to their account and, depending on user role and account, they can:
    - enter and transfer data: producer, importer, supplier to the market;
    - verify data: certification bodies – verify sustainability certificates;
    - perform control: relevant authorities, voluntary schemes (certificates only).
- Certification bodies should validate economic operator's registration in the database, confirm the information entered by economic operators into database (cross check the information entered with the mass balance and proof of sustainability (POS)). Voluntary schemes should approve certification bodies registered and approve certificates issued by certification bodies. Any trade should be recorded in the system. For fuels in interconnected infrastructure subject to the same mass-balancing system, these characteristics must be registered at the first entry point and registered out at final consumption.
- **Specify details of the information to be submitted:** According to current legislation economic operator is not required to issue a PoS, but only to report information on sustainability to competent authority. The regulation should be revised to encompass all the data indicated in Annex I of the Implementing Regulation 2022/996 are transmitted through biofuel life cycle chain.
  - **Maintenance and supervision of the Database:** Authority responsible for the Database

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(Environmental Agency) should take measures to ensure that economic operators enter accurate information into the Database. To ensure transparency, the Database records all biofuel consignments and their certification status, supported by relevant documentation. Accordingly, the system contains all sustainability certificates, Proofs of Sustainability (PoS), transferred (traded) amounts, and submitted reports. The authority performs periodical supervision. It involves checking information, process and relevant documentation submitted. To ensure full transparency over time, the Database could eventually interface with other systems: customs (fuel imports), environmental data, and finance (tax records), to prevent fraud. The database should allow uploading of proof of sustainability certificates and GHG calculations, analogous to the EU's RED-GO (Guarantee of Origin) platform.

#### 5.2.4. Responsibilities and supervision by national authority

- **Clearly delineate responsibilities between EA, NCSE and ANRE:** Current legislation obliges fuel suppliers to report on the transactions carried out and the sustainability characteristics of the respective fuels, including their greenhouse gas emissions generated during their life cycle, starting from their point of production and up to the fuel supplier who places the fuel on the market to EA and NCSE, not specifying what to report to whom. Clear division of responsibilities between NCSE, EA and ANRE regarding reporting would be beneficial.
- **Supervision by national authority:** The supervision of the system and economic operators is not sufficiently addressed in existing legislation. Since the Environment Agency verifies compliance based on sustainability certificate provided, it is logical to act as a body in charge for supervision of economic operator for compliance with sustainability and GHG emissions saving criteria. The supervision entitles the review of submitted documentation and on-site inspection.
- **Non-compliance of irregularities:** National legislation should enable the supervision Agency to deny certificates or cancel registrations if during the supervision irregularities are determined. Penalties for not meeting the obligation and for



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malversation and fraud regarding the compliance with sustainability and GHG emissions saving criteria should be defined. It should also oblige economic operators to keep documentation on sustainability and GHG emissions saving evidence for minimum 5 years and make it available to supervisors and verifiers upon request

### 5.3. Institutional Responsibilities for the Implementation of the Proposed Concepts on Renewable Fuel Obligations and Sustainability Criteria

The responsible authorities and their roles in the implementation of the obligation of fuel suppliers to deliver renewable energy to energy consumers in the transport sector are described below:

- **Ministry of Energy (Ministerul Energiei)** – policy, NECP integration, target setting and strategic coordination.
- **Ministry of Environment (Ministerul Mediului)** – approval of certification bodies, supervisory policy for sustainability rules and high-level oversight.
- **National Centre for Sustainable Energy- NCSE (Centrul Național pentru Energie Durabilă - CNED)** - collects from fuel suppliers information on the geographical origin and type of raw materials of biofuels, bioliquids and biomass fuels, publishes and update this data annually. Collects and stores information on transactions carried out and the sustainability characteristics of fuels, including their greenhouse gas emissions generated during the life cycle (via Database of Biofuels). Reports this information to Energy Community. Reports to Energy Community Secretariat if it suspects or detects fraud.
- **Environmental Agency (Agenția de Mediu)** – collects from biofuel supplier in standardised form information on implementation of the obligation to use a mass balancing system, adequate and relevant data related to biofuels, bioliquids and biomass fuels on measures taken to protect soil, water and air, to restore degraded soil and to avoid excessive water consumption in areas with poor water resources. It



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verifies whether raw materials and/or biofuels, bioliquids and biomass fuels comply with sustainability and greenhouse gas emission reduction criteria (certificates). Collects information on land improvement programmes in place to ensure sustainable management of soil resources for biofuel originating from waste and residues from agricultural land. Establishes and maintains Database of Biofuels in which all above mentioned information is stored. It coordinates with MOLDAC for supervision of economic operators and certification bodies to check compliance with procedures for demonstrating sustainability and GHG emission savings criteria. Based on information received from fuel suppliers, reports GHG emission savings online.

- **National Agency for Energy Regulation - NAER (Agenția Națională pentru Reglementare în Energetică - ANRE)** – collects from biofuel producers information on quantities of biofuels sold on the local market and exported, by categories, and other characteristics of biofuels. From fuel importers collects information on biofuels imported. Operator of RTF Registry, licensing and market enforcement, data reconciliation with Customs and excise data, financial management of administrative fees. Draft ANRE regulation on producers' register already positions ANRE for a central role.
- **Customs Service (Serviciul Vamal)** – provide verified import/excise data, support customs controls on origin documentation for fuel consignments.
- **MOLDAC (National Accreditation Centre)** – In accordance with Regulation (EC) No 765/2008, accredits certification bodies against EN ISO/IEC 17065, and, when a certification body conducts verification activities, EN ISO/IEC 17029 and EN ISO 14065, ensuring that such accreditation covers the specific scope of certification under the applicable voluntary or national scheme within the meaning of Directive (EU) 2018/2001, adapted and adopted by Ministerial Council Decision 2021/14/MC-EnC and 2022/02/MC-EnC. Maintenance of authorised certifier lists. It supervises (in coordination with Environmental Agency) economic operators and certification bodies to check compliance with procedures for demonstrating sustainability and GHG emission savings criteria.

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## 5.4. Compliance Mechanisms and Penalties

- **Annual surrendering deadline:** Obligated parties must hold the required number of RTFCs (or pay the buy-out) by a legislated annual deadline (e.g. 31 March of the following year).
- **Buy-out price:** A statutory price per missing MJ (set by Government/ANRE) that is sufficiently punitive to ensure compliance and finance administrative costs.
- **Administrative sanctions:** fines proportional to the shortfall, possible revocation or suspension of ANRE licence for persistent breaches.
- **Criminal liability:** should be reserved for deliberate fraud (forged PoS, forged certificates) and applied in line with Moldova's Penal Code.



## 6. LEGAL AND REGULATORY FOUNDATION

This chapter summarises the existing legal architecture, assesses conformity with RED II requirements and identifies legal gaps to RTFO to operate lawfully and effectively.

### 6.1. Current Legal and Regulatory Framework

The energy governance framework of the Republic of Moldova is shaped by its international commitments, notably the EU–Moldova Association Agreement (AA) (signed on 27 June 2014 and fully in force since 1 July 2016) and the Energy Community Treaty, which require alignment with EU energy legislation, including the RED II. These commitments are reinforced by the principles of the Deep and Comprehensive Free Trade Area (DCFTA) under the AA, which emphasize transparency, accountability, and effective oversight. Together, they mandate the implementation of governance and regulatory frameworks to ensure sustainable energy development and compliance with EU rules and standards.

Key Moldovan legal instruments relevant to an RTFO and sustainability verification include:

- **Law No. 10/2016** on the promotion of the use of energy from renewable sources, as amended on 10-07-2025 (primary law enabling renewable policy, including transport, hereafter: Law on RES) - establishes a legal framework to promote renewable energy and grants the Government the authority to regulate renewable fuels in transport
- **Law No. 461/2001** on petroleum products (market regulation, storage, wholesale/retail rules).
- **Tax Code No. 1163/1997** (excise and customs provisions; the excise point is essential for obligation assignment).
- **Government Decision No. 53/2025** (Regulation on sustainability and GHG calculation methodology) – transposes sustainability criteria and GHG calculation methodology into national law, aligning Moldova with RED II technical standards
- **Government Decision No. 74/2024** (calculation of energy consumption from renewables) – methodological foundation.

- Draft ANRE/NEAR regulation on the Registry of biofuel producers (ANRE/NEAR draft decision establishing producer register and local blending plant register) – proposed instrument for registration and operational oversight.

Other relevant acts include several environmental, waste, forestry, and agricultural statutes that interact with feedstock eligibility rules (Law No. 209/2016 on waste; Forestry Code No. 69/2024; air quality and climate laws). These underpin the sustainability risk management, feedstock eligibility, and ILUC assessments.

## 6.2. Alignment with RED II Requirement

For the initial assessment of compliance with the EU acquis on renewable energy in transport and to consider the translation of the proposed concept into appropriate legal acts in the next project phase, key components are analysed, including their integration into national legislation. This encompasses compliance with sustainability and GHG savings criteria, recognition of certification schemes and authorization of certification bodies, obligations of economic operators, reporting, and oversight by the national authority.

### 6.2.1. Sustainability and GHG savings criteria compliance

The sustainability and greenhouse gas (GHG) savings requirements for biofuels, bioliquids, and biomass fuels, as established by RED II, have been incorporated into Moldovan legislation. This integration is primarily reflected in the adopted Regulation on Sustainability and Greenhouse Gas Emission Reduction Criteria for Biofuels, Bioliquids, and Biomass Fuels (hereinafter: Regulation on Sustainability) and the Methodology for Calculating the Impact of Biofuels, Bioliquids, and Biomass Fuels on Greenhouse Gas Emissions (hereinafter: Methodology for calculating GHG Emissions) (Government Decision No. 53 of 05-02-2025). These regulations are based on the Law on RES, which provides the primary legal framework for compliance with EU sustainability and GHG-emissions-saving criteria.

Moldova is committed to at least a 70% reduction of greenhouse gas emissions generated by liquid and gaseous fuels of non-biological origin, produced from renewable sources and used in transport, starting from January 2026 (Government decision No. 53 of 05-02-2025), transposing Article 2 of Delegated Regulation (EU) 2023/1185.

## 6.2.2. Recognition of certification schemes and authorisation of certification bodies

Moldova does not have a recognised operational national certification scheme, even though the Law on RES, Article 26, paragraph 4, announced a plan for such a scheme, stipulating that the Government shall promote RES by adapting a voluntary national certification scheme for locally produced biofuels. The reliance on voluntary schemes is stipulated in Article 25, paragraph 4, as it states that the conformity of biofuels, bioliquids, and biomass fuels placed on the market shall be attested by confirmation documents issued under the voluntary certification scheme for biofuels, bioliquids, and biomass fuels. Furthermore, Article 26, paragraph 2, stipulates that biofuel producers shall ensure that raw materials, biofuels, bioliquids, and biomass fuels comply with sustainability and greenhouse gas emission reduction criteria by obtaining confirmation documents issued under voluntary schemes approved by the Government or national or international schemes approved or recognized by the competent authorities. In Article 10, paragraph 1, it is stipulated that the Government approves, upon the proposal of the central specialized body of the public administration in the field of energy<sup>16</sup> and of the central specialized body of the public administration for natural resources and the environment<sup>17</sup>, voluntary certification schemes establishing standards for the production of biofuels, bioliquids and biomass fuels and confirming that the respective standards and criteria for sustainability and reduction of greenhouse gas emissions are met by biofuel producers. Therefore, national legislation enables the operation of voluntary schemes recognised by the European Commission/Energy Community Secretariat for sustainability criteria and for compliance verification of GHG emission savings, but they must be approved by the Government. However, the approval of the certification bodies (independent auditing bodies) operating under the voluntary scheme should be more detailed.

## 6.2.3. Obligations of the economic operators

Law on RES sets certain obligation for biofuel producer (Art. 26 para. 2, Art. 8 para. 6) and importer of petroleum products (Art. 8 para. 6). Regulation on sustainability (government decision No. 53, Art. 29., 30, 31, 32) sets the obligations on fuel suppliers (using mass balance, measures for protection of soil, water and air, reporting).

The obligations arising from existing legislation are summarised below:

### Biofuel supplier

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<sup>16</sup> Ministry of Energy

<sup>17</sup> Ministry of Environment



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- Must demonstrate that sustainability and GHG savings criteria have been met.
- Annual submission to the National Agency for Energy Regulation of the Republic of Moldova (ANRE/NEAR) and then to the National Centre for Sustainable Energy (NCSE), of information regarding compliance with sustainability criteria and reduction of greenhouse gas emissions, and all relevant data for preparation of information. The submitted information includes the use of a mass balance system and relevant data on biofuels, bioliquids, and biomass fuels, along with measures taken to protect soil, water, and air, restore degraded soil, and avoid excessive water consumption in areas with limited water resources. Information submitted in standardised form.
- Organising annual independent assessments of the information submitted.
- Makes available to the National Centre for Sustainable Energy information on the geographical origin and type of raw materials of biofuels, bioliquids and biomass fuels.

#### Biofuel producer:

- Must report on quantities of biofuels sold on the local market and exported, by categories, to the National Agency for Energy Regulation of the Republic of Moldova (ANRE/NEAR) and then to the National Centre for Sustainable Energy (NCSE), as indicated in the Law on RES, Art. 8. para. 6).
- Must demonstrate that sustainability and GHG savings criteria have been met (by certificate).
- Annual submission to the Environmental Agency, of information regarding compliance with sustainability criteria and reduction of greenhouse gas emissions, and all relevant data for preparation of information. The submitted information includes the use of a mass balance system and relevant data on biofuels, bioliquids, and biomass fuels, along with measures taken to protect soil, water, and air, restore degraded soil, and avoid excessive water consumption in areas with poor water resources. Information submitted in standardised form.
- Organise annual independent assessments of the information submitted.

### Importers of petroleum products:

- Submit information to ANRE/NAER on the quantities of biofuels and petroleum products purchased from local producers or imported for the purpose of producing the blend (quantities and quota of biofuels in the blend, by category),
- Submit the information provided in the Regulation on sustainability and greenhouse gas emission reduction criteria for biofuels, bioliquids, and biomass fuels.

The current legislation imposes sustainability verification requirements on fuel producers and suppliers. According to RED II, each economic operator in the chain of cultivating and converting biomass to biofuels must provide purchasers in the next step with information about the certificate they have obtained and the sustainability characteristics of the product they deliver.

Both fuel producers and suppliers submit their information to the Environmental Agency, which compiles it. Therefore, it serves as a central database for biofuels. This imposes a significant administrative burden on the Agency.

#### 6.2.4. Reporting information on biofuels and their characteristics

The fuel supplier and fuel producer report to the Environmental Agency the sustainability characteristics of the respective fuels, including their greenhouse gas emissions generated during their life cycle, from production to the point at which the fuel is placed on the market by the fuel supplier. They also submit to the Agency confirmation of an independent audit (sustainability certificate). This information must be submitted annually by January 31 of the following year.

Fuel suppliers report to the National Centre for Sustainable Energy (NCSE) on the transactions carried out, the geographical origin, and the type of raw materials used in biofuels, bioliquids, and biomass fuels. NCSE shall publish and update this data annually by 31 March of the previous management year. Therefore, the NCSE serves as a central point for collecting and storing information on transactions.

The information on characteristics of fuels from different batches shall be aggregated based on the principle of mass balance and reported to EnCS by the central specialized body of the public administration for natural resources and the environment<sup>18</sup>.

The fuel supplier should organise an annual independent assessment of the information submitted to the NCSE and provide evidence that the assessment is carried out.

The Environmental Agency annually, by March 31 of the following year of management, calculates the impact of biofuels, bioliquids, and biomass fuels on greenhouse gas emissions and publishes the results on its official website.

### 6.2.5. Supervision by the national authority

The supervision of the system and economic operators is not sufficiently addressed in existing legislation. The NCSE cooperates with EnCS and notifies EnCS of any suspicion of fraud.

### 6.2.6. Gaps (operational/legal)

In addition to the above legal acts, operational and legal gaps have been identified that need to be further addressed to achieve full alignment with the EnC acquis for renewable energy in transport:

- **No adopted RTFO secondary regulation** that explicitly creates the obligation, defines obliged parties, sets the compliance mechanism (RTFCs), and mandates registry functions. The legal act that operationalizes the obligation is missing.
- **No operational RTF Registry / PoS database.** A single authoritative registry with interfaces to Customs and ANRE/NEAR is not yet live.
- **Accreditation/authorisation rules need formalisation.** The draft text for accreditation and supervision is awaiting the formal adoption of the act and the MOLDAC rules.
- **ILUC caps and explicit advanced biofuels sub-targets** are not yet codified (NECP measures propose blending percentages but do not yet set legal ILUC caps or Annex IX sub-targets in statute).

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<sup>18</sup> Ministry of Environment

### 6.3. Legislative amendments recommended sequencing

In the following, the initial changes and adjustments to primary and secondary national law have been identified to address the identified legal and operational gaps. Detailed work on these changes is expected in the next phase of the project.

#### Primary law amendments:

Amend Law on RES:

- provide explicit legal authority to introduce an RTFO as well as an obligation to establish the registry and to delegate the key operational functions to ANRE/NEAR;
- define that the excise payer is the legally obligated party by default; and
- state that PoS issued by recognised schemes are admissible evidence for counting renewable energy toward RES-T.

#### Secondary legislation and operational instruments (to be adopted in tight sequence):

- **RTFO Regulation** – defines targets, obligated parties, fuel scope, multipliers, penalties, buy-out price and enforcement rules. This is the central operational instrument.
- **RTF Registry Regulation** – details technical and governance aspects of the registry, data requirements, interfaces with Customs and Environmental Agency, certificate issuance rules and trading procedures. ANRE's draft registry for producers serves as a starting point and can be expanded into a comprehensive RTF Registry regulation.
- **PoS and Sustainability Implementation Rules (Ministry of Environment / Government Decision)** – finalise GD No. 53/2025 operational detail: PoS data model, GHG calculation details, record-keeping rules, required evidence, and confidentiality arrangements.
- **Accreditation and Authorisation Rules (MOLDAC / Ministry of Environment)** – specify



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conditions for MOLDAC accreditation of certifiers, procedures for authorising foreign accredited certifiers to operate in Moldova, and the record-keeping/reporting duties of certifiers.

- **Administrative Fee and Buy-out Rules (ANRE / Ministry of Finance)** – set the fees and the mechanism to allocate buy-out proceeds.

### Sustainability certification and GHG emission accounting status in Moldova

Government Decision No. 53/2025 provides a robust technical basis for GHG emissions accounting and sustainability criteria: Moldova has adopted the key methodological building blocks (life-cycle GHG calculation, feedstock categories, and sustainability tests). What remains is the practical operationalisation:

- Practical acceptance of third-party voluntary schemes (recognition notifications),
- MOLDAC's accreditation of certifiers and an authorised list publication, and
- the Environmental Agency's PoS database and surveillance workflows.

Once these building blocks are fully implemented, the legal framework will closely mirror RED II requirements and provide a sound basis for counting renewable fuels.



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## 7. CONCLUSION

Moldova has already created the legal and policy scaffolding necessary to implement a RED II-aligned Renewable Transport Fuel Obligation. The Government Decisions (e.g. GD No. 53/2025 and GD No. 74/2024) set the methodological foundations for sustainability and GHG accounting. The country's centralised, import-dominated fuel market and small number of primary importers present a major practical advantage: obligations assigned at the excise/customs point are administratively feasible and enforceable.

However, Moldova still needs to complete several operational elements: a live PoS database, ANRE's RTF Registry, formal MOLDAC accreditation/authorisation rules, and resourced technical supervision by the Environmental Agency. Prioritised and sequenced adoption of the RTFO regulation, registry go-live, immediate recognition of RED II-compatible voluntary schemes, and rapid capacity building (IT and audit personnel) will enable Moldova to begin delivering RES-T progress in a manner that is legally robust, operationally enforceable and aligned with Energy Community / EU norms.



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