

Key Developments of the RED III



Agenda

Introduction Peterson Solutions

RED III & Biofuels

RED III & Forestry Biomass

Explore our global services

We focus on consultancy and technological solutions and provide skills and knowledge through practical training options.

To explore our complete global services please visit us at onepeterson.com.

 Peterson Solutions

 Peterson
Technology

 Peterson Academy

Our global services



Peterson Solutions

We provide hands-on consultancy and tailor-made solutions to your sustainability challenges supported by a team of experts in the social, environmental, sustainable finance, and responsible sourcing areas.



We are Peterson

Peterson has been helping to build a better world for many decades. From our roots in agriculture, we have grown to become a trustworthy global partner for consultancy, sustainability, technology, and training, providing a comprehensive range of high-quality services to customers in 80+ countries.

Our in-depth knowledge and experience covers all aspects of the supply chain, across a wide range of industries, and cargo types. From oil and gas to renewable energy; from feed to regenerative agriculture and textiles.

Thanks to our global network of offices, and our 5,000+ people, we are uniquely placed to support businesses anywhere in the world, providing on-the-ground support and insight to assist our partners with local challenges that matter to them and the world around them.

From a family-owned business in the port of Rotterdam to a multinational with offices and a broad scale of activities around the globe. Still family owned after over 100 years.

15+

Industries

80+

Countries with operations

5.000+











Number of employees

About the service

Bringing you ahead of the business

We assist in defining sustainability policies, reducing environmental footprints and identifying potential sustainability claims, and defining them accordingly. Our customers are multinationals, small and medium-sized enterprises, farmers' cooperatives, associations, non-governmental organizations, and governments. Our consultants work closely together with our Technology and Academy departments to provide organizations with a full-service package; from data services to expert insights, local training and more.

Industries we work in

 Agriculture	 Biomass and biofuels	 Feed	 Fertilisers	 Forestry and wood	 Textiles
	 Water	 Manufacturing	 Renewable energy	 Tourism	

Grow your business sustainably with our solutions



Certification support

Need to get **certification** for your products and/or way of working? Your **products must** be **certified** to **enter the market**. **We help** you on this journey by **analyzing** existing **procedures** and **documents**, making **recommendations** for certification, and **solve** any problems to prepare you for audits.

Sustainability services

We support companies in achieving their sustainability goals by assisting them in defining their **ESG strategy** and **reports**, managing their **environmental footprint**, and meeting their **sustainability commitments**.

Sustainable sourcing

Sustainable sourcing is the **integration** of **social** and **environmental factors** into the **selection process** for your **suppliers**. **We help** organizations meet common issues found in **value chains**, such as **reputational risks**, lack of **control** over suppliers, **sustainability gaps** at the value chain level, and **compliance** with **global sustainability standards**.

Strong track record in different certification markets and beyond



Road Fuels & RED EU



Shipping & Maritime Fuels



SAF for Aviation & ICAO CORSIA



Chemicals, Fertiliser, Feed & Food Certification



Biogas Production & Trading

- **RED** and **bio mandate compliance** support for obligated parties
- **Due diligence** services along **M&A** projects within the energy industry
- **Scope 1-3 emissions** and set-up of **LCA &** verification standards
- Implementing & bechmakring **CORISA** standards for **SAF**
- Support for **ISCC PLUS** standards across various industries
- **Maritime** and **Aviation** Regulation / **RED III**

Background of the RED III

2020 EC Renewable Energy Progress Report

In 2018 Member States reached an average share of 18% RES

Electricity, heating and cooling reached a higher share than anticipated

Transport only 8% with only two MS exceeding the 10% (SWE & FIN)

Bioenergy remains the main source of RES in the EU with ~60%

Majority comes from forestry → Concerns about its sustainability

Climate neutrality / net zero emissions by 2050 → **new intermediate target of 55% GHG reduction required by 2030** compared to 1990

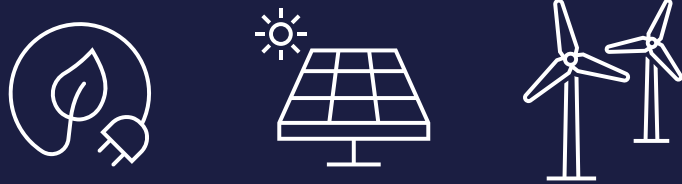
This required 38-40% RES in final energy consumption by 2030

→ Revision of the RED II required

Changed Target Setting

The Dutch government is working on implementing an obligation based on the GHG emissions intensity reduction for transport fuels

Current Ordinance establishes a renewable energy target



RED III allows to opt for a **GHG emissions intensity reduction target** or a renewable energy target



How does the RED III affect the energy industry?

RED III will increase the use of **renewable energy**, reducing dependence on fossil fuels and carbon emissions



Increase renewable energy share in total energy consumption:

Investments in solar, wind, bio-energy, use of advanced biofuels and renewable electricity production
42.5 % of RES by 2030



Promoting energy efficiency:

Companies must take measures to reduce energy consumption and promote the use of energy-efficient technologies



Reporting obligation of biomass sustainability is extended :

New reporting obligation for smaller energy installations
For biomass-fueled plants, thermal threshold for sustainability criteria is **reduced from 20 MW to 7.5 MW**

Main changes concerning the transportation targets

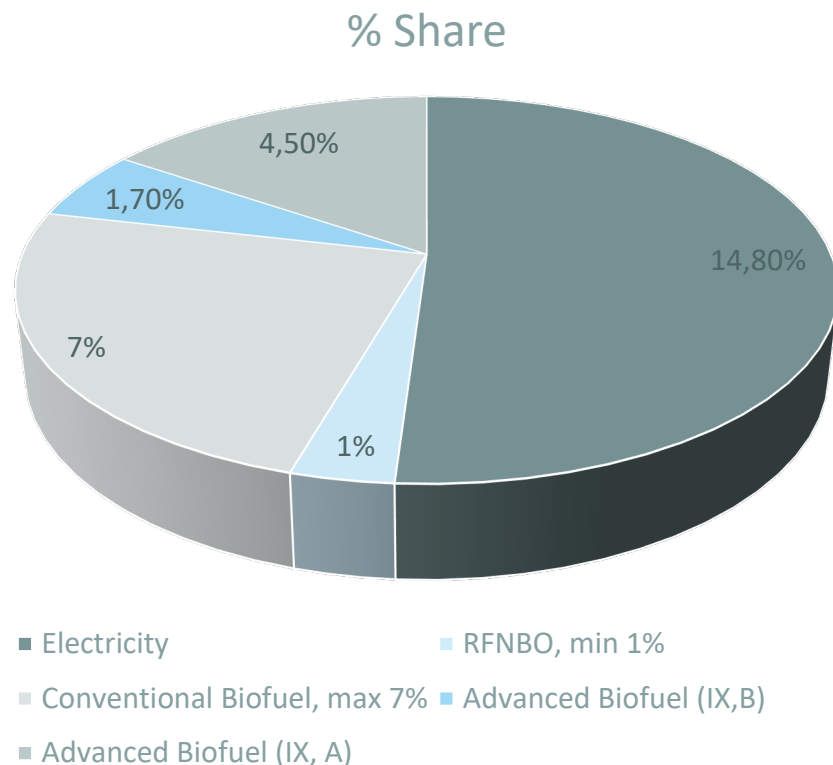
Targets 2030	Targets in RED II (2018)	Targets in RED III (2023)
Advanced biofuels (feedstocks Annex IX, A)	<ul style="list-style-type: none"> - 3.5% share of advanced biofuels in final consumption of road fuels - Double Counting 	<ul style="list-style-type: none"> - 5.5% share of advanced biofuels & RFNBOs in final consumption of road fuels - 1% RFNBO minimum share
RFNBO	<ul style="list-style-type: none"> - No sub-target - Additional multipliers in aviation and maritime transport: x1.2 	<ul style="list-style-type: none"> - Indicative goal of 1.2 % of energy in maritime transport in 2030 - Double Counting for advanced biofuels and RFNBOs - Additional multipliers in aviation and maritime transport: x1.2 for advanced biofuels and x1.5 for RFNBOs

Main changes concerning the transportation targets

Targets 2030	Targets in RED II (2018)	Targets in RED III (2023)
Biofuels and Biogas from UCO or animal fats (feedstocks Annex IX, B)	<ul style="list-style-type: none"> - Use of biofuels and biogas from UCO and animal fats is limited to 1.7 % in road fuels - Double Counting 	<ul style="list-style-type: none"> - Use of biofuels and biogas from UCO and animal fats is limited to 1.7 % in road fuels - Double Counting
Conventional biofuels (food & feed)	<ul style="list-style-type: none"> - Share of conventional biofuels consumed in 2020 in road and rail transport in Member States +1%, but a maximum of 7% 	<ul style="list-style-type: none"> - Share of conventional biofuels consumed in 2020 in the transport sector in Member States +1%, but a maximum of 7%

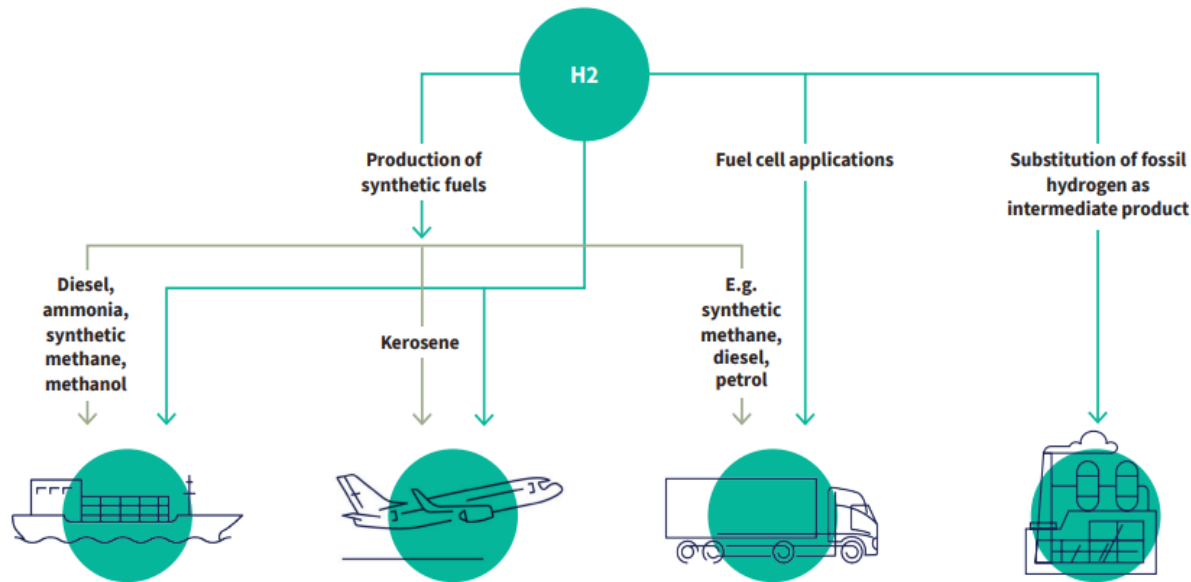
Binding **GHG** intensity **reduction** of at least **14.5%** in transport by 2030 compared to baseline **or** a binding share of at least **29% of renewables** within final consumption of energy in the transport sector by 2030

Sample scenario: How to achieve the RED III transport target of 29% in 2030?



- **Electricity** will play a **key role** in achieving road targets
- Production of **RFNBOs** and **advanced biofuels (Annex IX Part A)** must be significantly **increased** by 2030
- The multipliers for fulfilment options incentivise certain options
- Change to all MoTs could lead to an **increased use of conventional biofuels** and biofuels from **UCO** or **animal fats**

Steering Effect from Maritime and Aviation Regulations



- **FuelEU Maritime + ETS** prices direct maritime demand towards RFNBOs
- **ReFuelEU Aviation:** Incentivise uptake of hydrogen or synthetic jet fuel
- **Road:** Widespread use unlikely due to cost, availability & infrastructure
- **Refineries:** Substitution with renewable H2 can be counted towards target fulfillment

The contribution of **maritime bunkering** to the **total fuel & energy pool** is capped for *maritime Member States*

Limited to **13%** of the MS's gross final energy consumption → Should be the case for NL

Forestry Biomass



- **Forest biomass** is the most important bioenergy source → **2/3 of EU bioenergy consumption**
 - Wood fuels include chips, pellets & logs
 - **74% of primary** material for **pellets**
 - **62% of primary** material for wood-for-energy are **by-products**
 - Bark, saw dust & wood chips

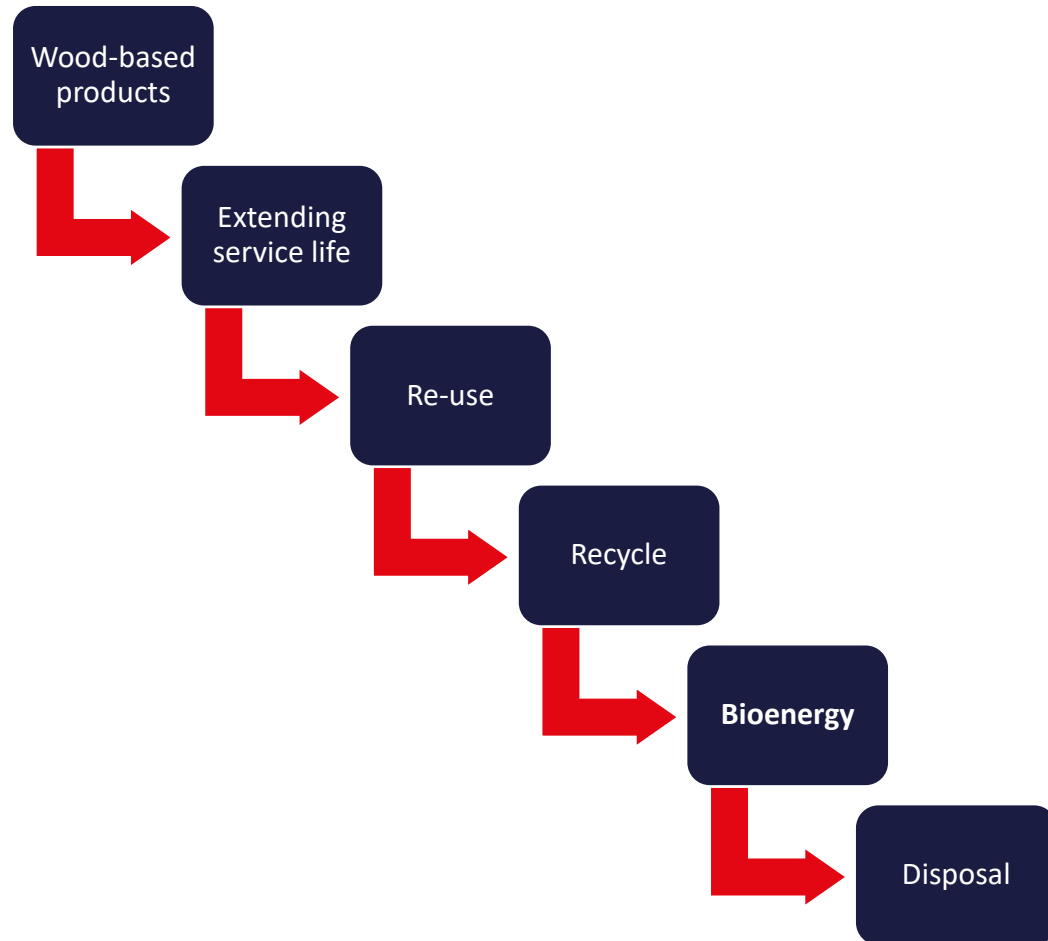


- **Primary forest and old growth forests**
as defined in the country where the forest is located
- **Highly biodiverse forest**
- **Highly biodiverse grassland**
- **Heath land**
- **Peatland**

Updated definition of sustainable harvesting:

- **No forest conversion** into plantations
- Minimise **clear cuts**
- **No use of roots & stumps**
- **No degradation** of primary & old growth forests

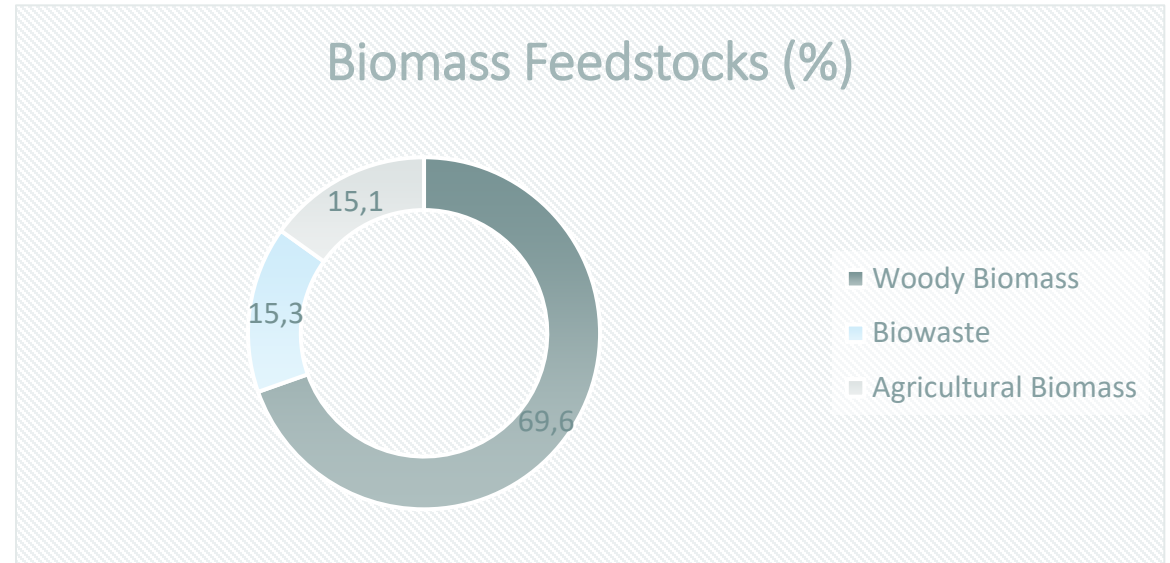
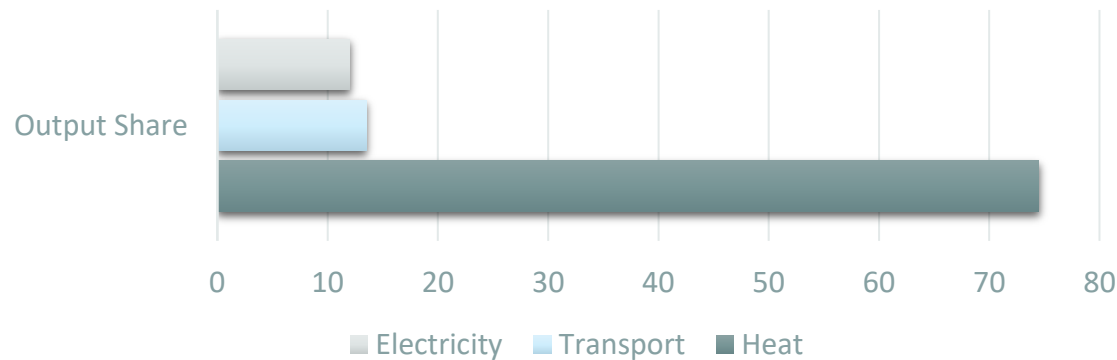
Member States to implement *Cascading Principle*



- Woody biomass to be used where **highest economic environmental added value**
- MS may **not** grant **direct financial support** for use of:
 - Saw logs
 - Veneer logs
 - Industrial grade roundwood
 - Stumps & roots for energy

Forestry Biomass

Biomass Outputs (%)



Source: Bioenergy Europe

- Forestry biomass remains eligible, but must meet additional sustainability requirements
- Generally, MS not allowed to support electricity-only installations using forest biomass (with exceptions)
- MS determine bioenergy installations that shall not be supported → regional differences
- The **scope** of RED III is **reduced to 7.5 MW for biomass plants** that use solid biomass fuels

Extension requirements in NL in other sectors

- Peterson supports RVO with „**Sustainability Framework for Bio-Based Materials in the Netherlands**” – focus on:
 - Chemical sector
 - Construction sector
- The **basis** are **RED II sustainability** and **management requirements**
 - Where possible SIMPLIFIED
- Recognition process for schemes will be similar to the SDE++
 - [Sustainability Criteria for Solid Biomass Under the SDE++-scheme \(rvo.nl\)](https://www.rvo.nl/en/energy/sde/sde-criteria)
- Relevant for:
 - ISCC PLUS, REDcert², RSB, FSC, PEFC, SBP, SURE, Bonsucro, RTRS

Extension requirements in NL in other sectors

- Is this an interesting topic for your organisation?
 1. Check with us if your supply chain is in scope
 2. Share current supply chain practices for the chain of custody requirements
- **Peterson** aims to **connect** the **criteria** with **practical indicators** for the sectors!
 - **Share your business card, we'll contact you for more information!**

Your partner in what matters!

Connecting people, expertise and technology
to create innovative solutions

Thank you for your attention!

Peterson Solutions

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For more information,
please visit our website.

