

# RED3 transposition in the Netherlands

Modelling energy demand in transport for 2026-2030

*V1 - November 2025*



PREVIEW VERSION

## About SQUARECO

Based on the Lemman Lake shores in Switzerland, SquareCo develops market intelligence solutions designed to help players active in renewable fuels markets to gain a deeper understanding of regulatory frameworks, market dynamics and industry developments.

SquareCo delivers high-quality expertise through the publication of articles, market reports and thematic studies displayed on our Web Platform. Our strong emphasis on data monitoring allows us to supply our clients with access to a comprehensively organized database.

We help energy suppliers to the road, maritime and aviation sectors to navigate serenely the complexity of regulations applying to low carbon fuels markets. Relying on 30 years of experience and an extensive network of contacts at ministries and companies around the world, we keep our clients constantly updated about the current and coming rules.

# RED3 transposition in the Netherlands

## Modelling energy demand in transport for 2026-2030

V1 - November 2025

### Summary

1. Introduction
2. Evolution of pools
3. RED3 implementation
4. Demand forecasts 2025-2030
5. RED3 compliance
6. Sensitivity
7. Conclusion

## Objectives of the study

▶ To interpret the draft laws designed to transpose the RED3 Directive (2023/2413) based on SquareCo's expertise

▶ To propose a transparent and credible forecast for the amounts of renewable energy required in the Dutch transport sector from 2026 to 2030.

## Two interconnected models

▶ Projecting the **evolution of the various pools** of transport fuels

▶ Resolving the **compliance targets** under the three GHG mandates

The present document compiles the main outcomes of our modelling work in a visual and minimalist way. The methodology and assumptions used in our models are detailed in two separate documents (PDF + XLS).

Primary topics addressed by the study are the following:

- The evolution of energy pools included in both the national mandates and the RED3 2030 obligation, including a rigorous forecast of road electrification.
- A thorough analysis of all the elements of drafted regulations.
- The forecasted demand for low-carbon fuels, split by category (9A, 9B, crop, uncategorized)
- The forecasted contribution of renewable electricity to savings generation
- The forecasted amounts of RFNBOs required to meet the sub-targets
- The modality and impacts of compliance flexibility between the three mandates





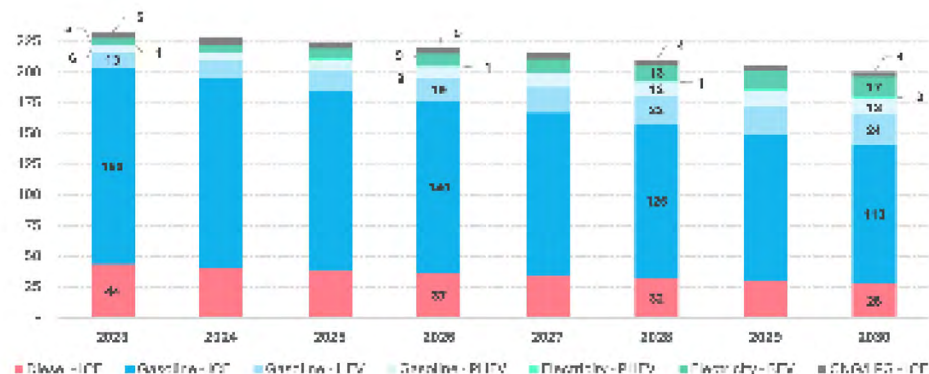


Fig.2 Car fuel demand by powertrain (PJ)

D XXXX, ( )

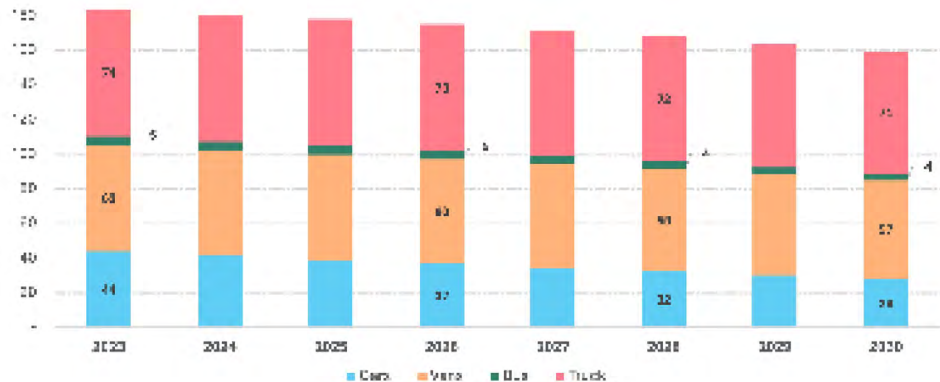


Fig.3 Road diesel demand per vehicle type (PJ)

- Trucks remain the dominant diesel consumers, accounting for roughly XX% XXXX, ( )
- V ( )
- C ( )

## International shipping

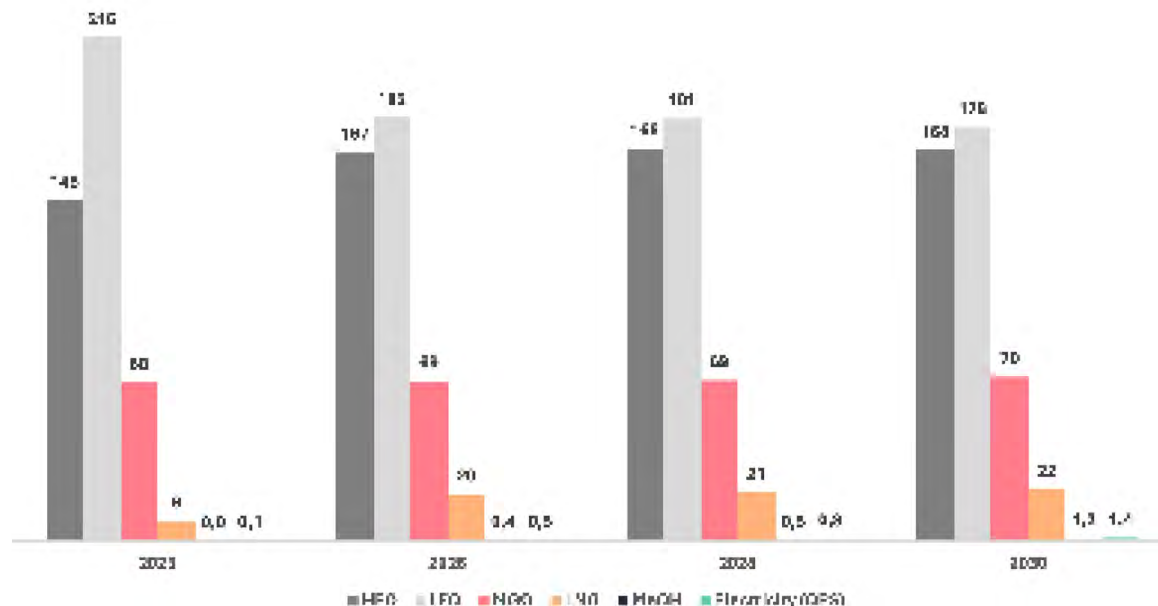


Fig.6 Dutch international shipping bunker fuel demand (PJ)

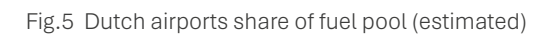
- The international shipping sector, which represents a disproportionately high share of the total energy demand in the Netherlands, is expected to .
- W  XXXX  FEUM  XXXX.
- OPS .

The aviation sector in the Netherlands has experienced its peak demand for jet fuel in our baseline scenario. R [REDACTED] [REDACTED]  
[REDACTED] S [REDACTED] [REDACTED]  
[REDACTED]

A bar chart titled "Jet fuel pool 2019-2030 projection (PJ)". The x-axis shows years from 2019 to 2030. The y-axis represents PJ (Petajoules). The bars are blue. The values for each year are displayed above the bars.

Year	PJ
2019	167
2020	23
2021	122
2022	135
2023	143
2024	151
2025	154
2026	153
2027	152
2028	151
2029	147
2030	140

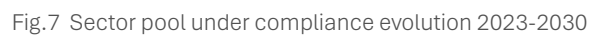
Fig.4 Jet fuel pool 2019-2030 projection (PJ)



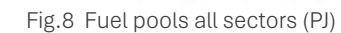
11/11/2016



# Overview



We modelled all transport-related sectors in detail with specially focus in road, maritime, and aviation. For the road sector, we used the European Commission's (EC) Road Transport Emissions Model (RT-EM) to estimate emissions from heavy-duty vehicles (HDVs) and light-duty vehicles (LDVs). For the maritime sector, we used the International Maritime Organization's (IMO) Emissions Calculator to estimate emissions from international shipping. For the aviation sector, we used the International Civil Aviation Organization's (ICAO) Carbon Calculator to estimate emissions from international aviation. The results of the model runs were then aggregated to estimate total emissions for each sector. The results are presented in Table 1.



\_\_\_\_\_



All mandates

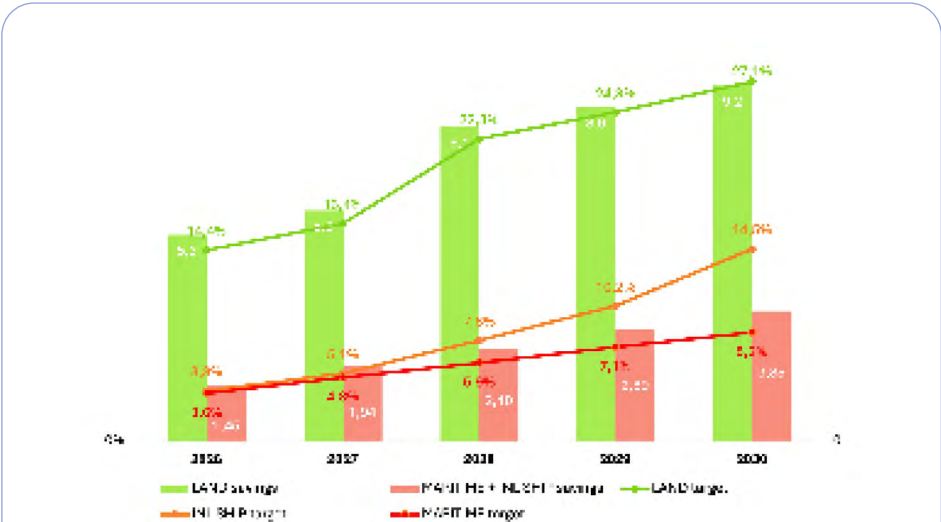


Fig.9 Targets trajectory and required savings (% GHG)

RFNBO

X%

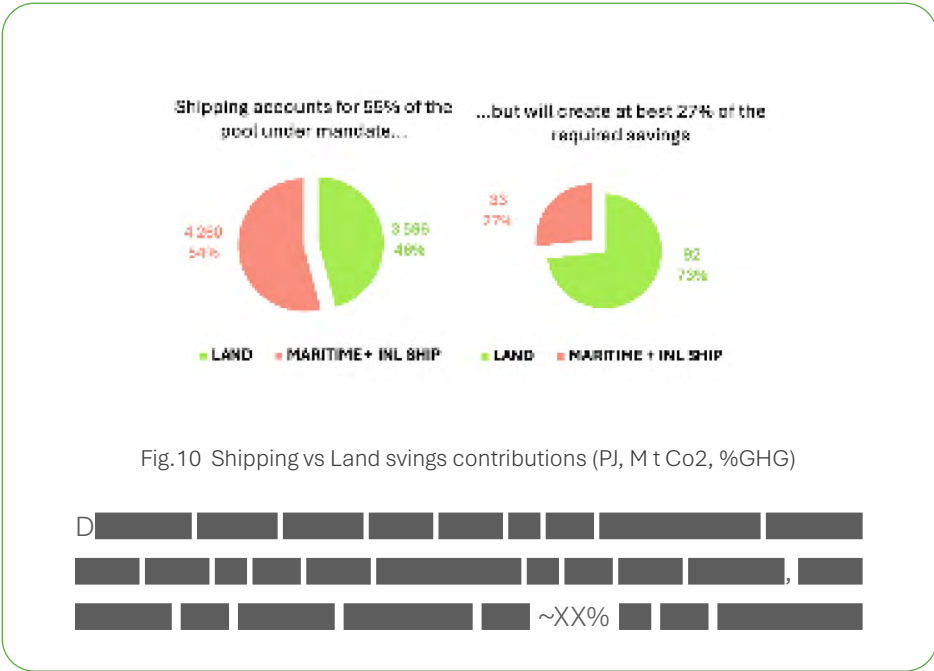


Fig.10 Shipping vs Land savings contributions (PJ, M t Co2, %GHG)

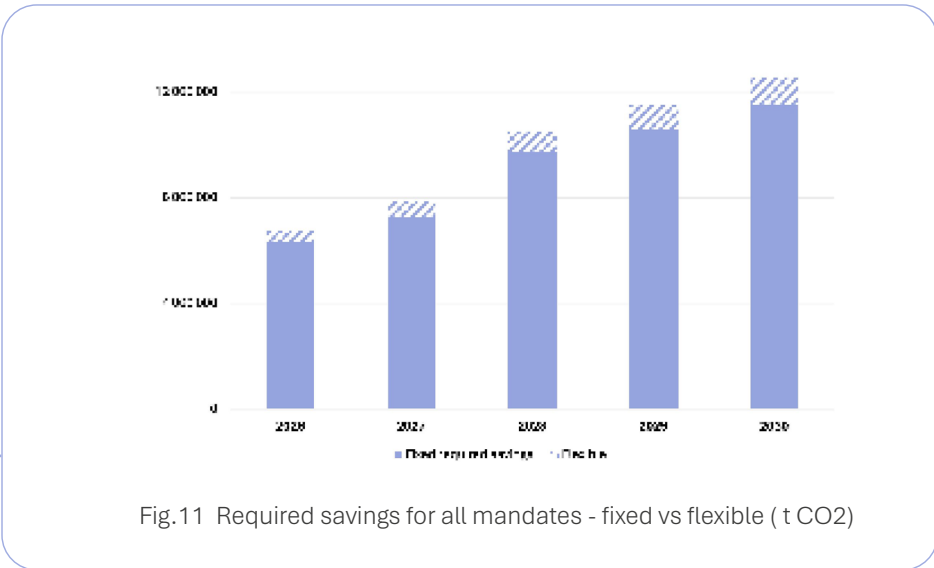


Fig.11 Required savings for all mandates - fixed vs flexible ( t CO2)

## Land

- [illegible]

LAND				2026	2027	2028	2029	2030
Targets	Overall	min	%GHG	14.4%	16.4%	22.6%	24.8%	27.1%
	SA	min	%GHG	3.07%	4.42%	5.92%	7.24%	8.76%
	RFNBO	min	%GHG	0.05%	0.06%	0.36%	0.77%	1.07%
Caps	Drop	max	%GHG	1.2%	1.2%	1.2%	1.2%	1.2%
	RS	max	%GHG	4.29%	4.29%	4.29%	4.29%	4.29%
Reference	Overall	(F)	tCO2	85945172	10247288	85449444	84541907	83526550
Required savings	Overall	min(F)	tCO2	50359105	5547554	8162473	8560170	9035750
	SA	min(F)	tCO2	11342917	1527508	2168607	2585910	2830928
	RFNBO	min(F)	tCO2	18478	21748	127878	285988	388754
Exped savings	Drop	max(F)	tCO2	442042	436967	420583	414682	408218
	RS	max(F)	tCO2	1584948	1556508	1530781	1481805	1448258

Tab.1 Targets and required savings (LAND)

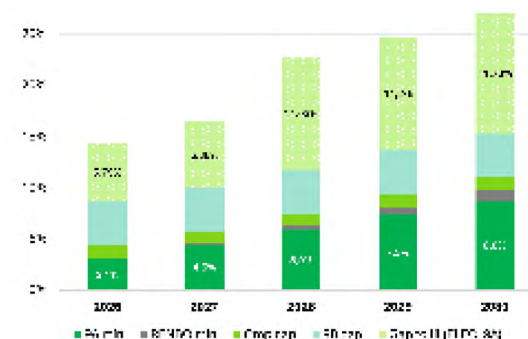


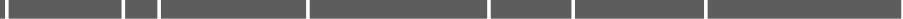


Fig.12 Savings potential for each category (% GHG)

Due to the contraction of gasoline and diesel pools, the reference value will slump by ~X% █████ XXXX █████ XXXX.

☐ [ ] [ ], [ ] [ ] [ ] [ ] [ ] [ ]  
[ ] [ ] [ ] - [ ] + [ ] [ ] [ ] [ ] [ ]  
**XX.X% GHG** ■ **XXXX.**

## Inland shipping

- All savings would be generated first as 9B, until the cap is reached in 2030.
- 9A would be required only in 2030 to close the gap between the main target and the XB .
- W .
- O .

Tab.2 Targets and required savings (INL SHIP)

INL SHIP			2025	2027	2028	2029	2030	
Targets	Overall	min	9.04%	3.0%	5.1%	7.5%	10.2%	14.5%
	Sector specific	min	9.04%	3.0%	4.10%	6.10%	8.50%	11.60%
	RPNBO	min	9.04%	0.02%	0.04%	0.05%	0.17%	0.34%
Caps	Crop	max	9.04%	0.0%	0.0%	0.0%	0.0%	0.0%
	SB	max	9.04%	11.07%	11.07%	11.07%	11.07%	11.07%
Reference	Overall	(F)	1.002	1.163505	1.176426	1.168502	1.162765	1.150155
Required savings	Overall	min (F)	1.002	44973	59259	88582	116550	167845
	RPNBO	min (F)	1.002	237	471	1.063	1677	1931
Capped savings	Crop	max (F)	1.002	0	0	0	0	0
	SB	max (F)	1.002	121.014	1207330	128.964	1207316	127383

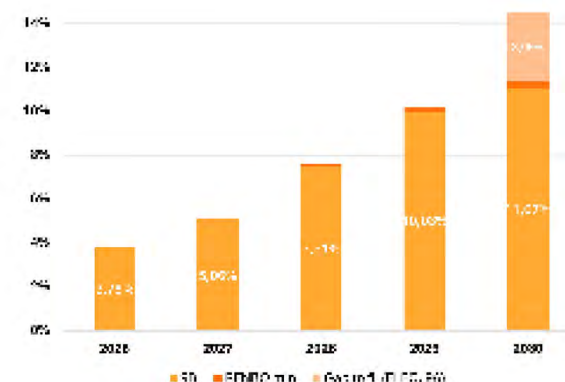


Fig.13 Savings potential for each category (% GHG)

Until the end of 2029, the overall target can be filed **exclusively** with XB [REDACTED] RFNBO [REDACTED]. F [REDACTED] XXXX. [REDACTED] XA [REDACTED] X.X% GHG [REDACTED].

# Maritime

- Amounts of Elec RE available through OPS until 2029 and bioLNG evolution are set in our assumptions (see XLS).
- Timeline of XA FAME production.
- Timeline of X% bioLNG production, LHV, and XXXX% bioLNG production.

Tab.3 Targets and required savings (MARITIME)

MARITIME				2026	2027	2028	2029	2030
Targets	Overall	min	% GHG	0.0%	0.0%	0.0%	0.1%	0.2%
	Sector specific	min	% GHG	2.00%	3.30%	4.10%	4.90%	5.70%
	RFNBO	min	% GHG	0.00%	0.00%	0.00%	0.10%	0.20%
Caps	Cmp	max	% GHG	0.0%	0.0%	0.0%	0.0%	0.0%
	SB	max	% GHG	0.00%	0.00%	0.00%	0.00%	0.00%
Reference	Overall	(F)	1.002	392019355	392644385	393575598	395283864	397053674
Required savings	Overall	min (F)	1.002	1411257	1384599	13227116	2792349	3202555
	RFNBO	min (F)	1.002	0	7353	31495	52305	124376
Caps savings	Cmp	max (F)	1.002	0	0	0	0	0
	SB	max (F)	1.002	0	0	0	0	0

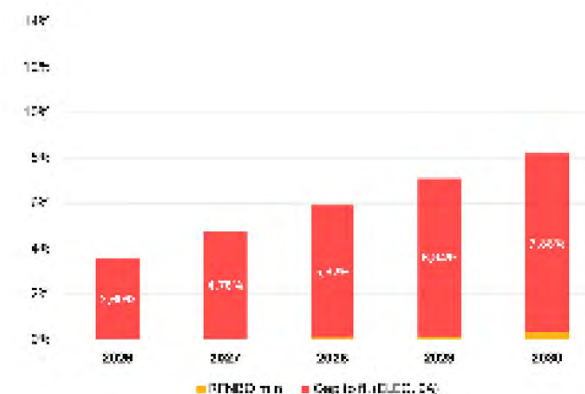


Fig.14 Savings potential for each category (% GHG)

- C [REDACTED] XA [REDACTED] RE, [REDACTED]  
[REDACTED] RFNBO.
- A [REDACTED] LAND, AF CX [REDACTED] [REDACTED]  
[REDACTED] X.X [REDACTED].





[illegible]

# Products demand - FAME

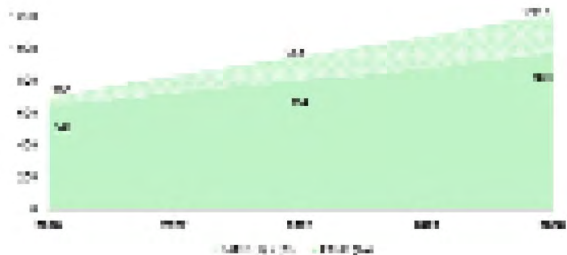


Fig.18 Fame demand forecasted per scenario (kt)

T FAME X.X

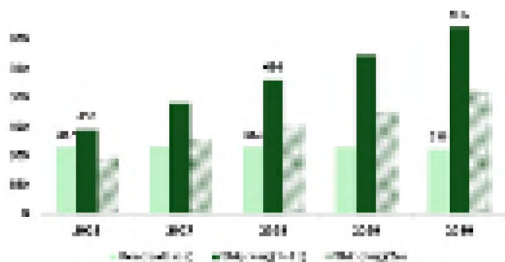


Fig.19 Fame demand expected by sector, per scenario (kt)

O X, XX% FAME

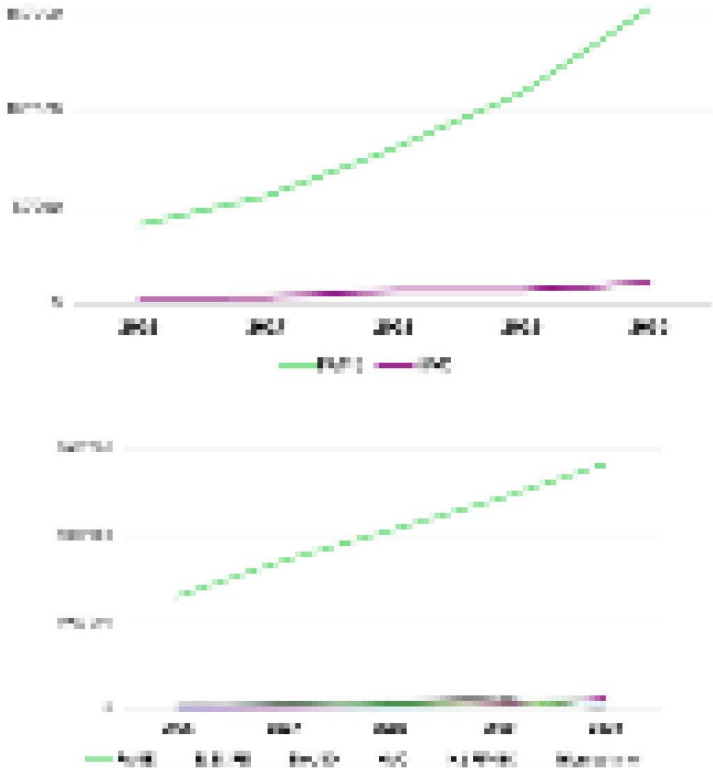


Fig.21 Products used under MARITIME compliance (t CO2)

M FAME

# Products demand - HVO

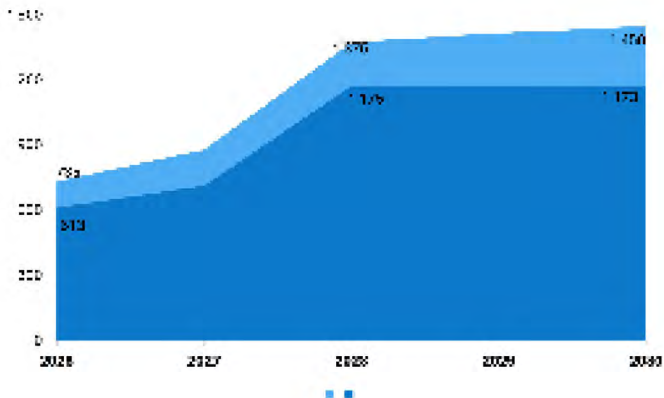


Fig.22 HVO demand forecasted per scenario (kt)

In the most likely scenario (S1), the potential for HVO demand is forecast-  
ed at 1.11 Mt by 2030. If Road would generate more tickets for maritime  
compliance, the potential could top 1.45 M t, and ensure some growth  
beyond 2028.

O HVO  
XXXX. T  
XXXX  
XXXX

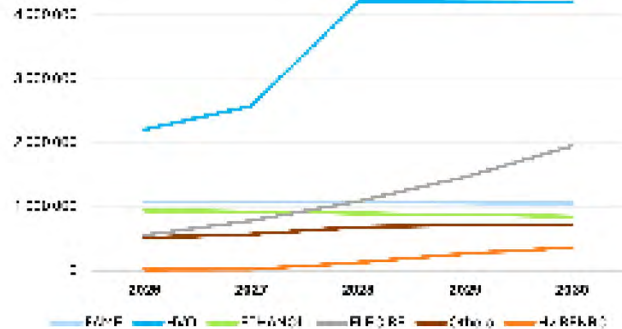


Fig.23 Savings generated per product under LAND compliance (t CO2)

- HVO XXXX
- LAND
- XXXX, HVO XX%
- F XXXX

# Products demand - FAME/HVO

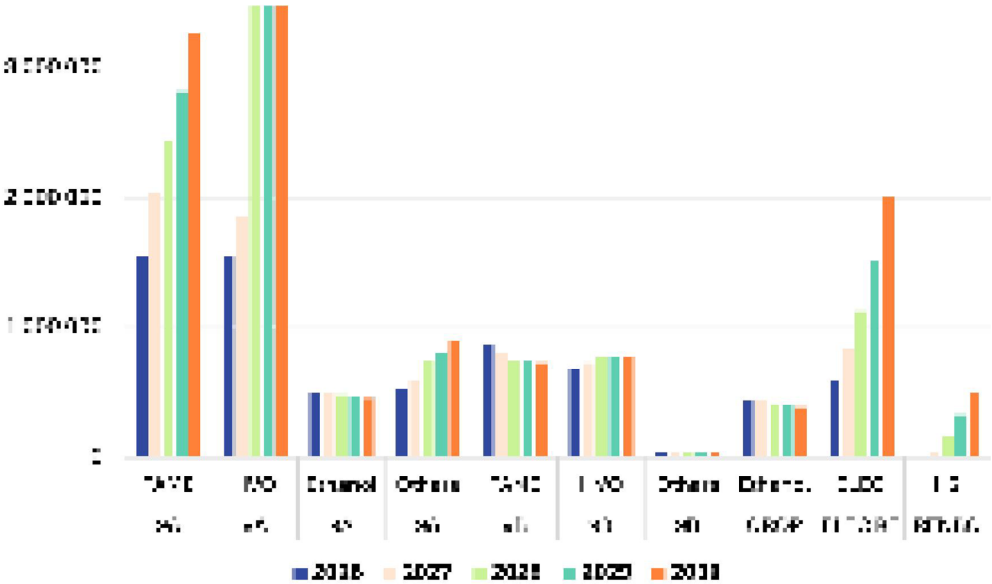


Fig.24 Savings generated per product for all mandates (t CO2)

Across the three mandates, **HVO and FAME based on 9A feedstocks** will be ██████████

# Products demand - Ethanol & others

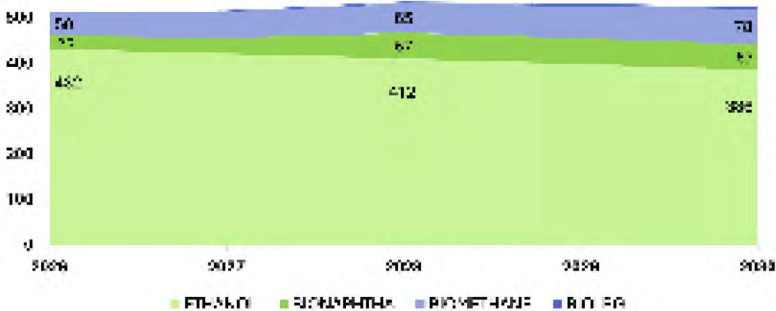


Fig.25 Other biofuels demand forecast under all scenarios (kt)

As the E10 potential was optimized before 2026, we forecast a gradual  
XXXX. T  
XXXX.

T  
HVO, XX  
XXXX. B  
LPG  
N

A  
CNG  
-CNG  
GHG

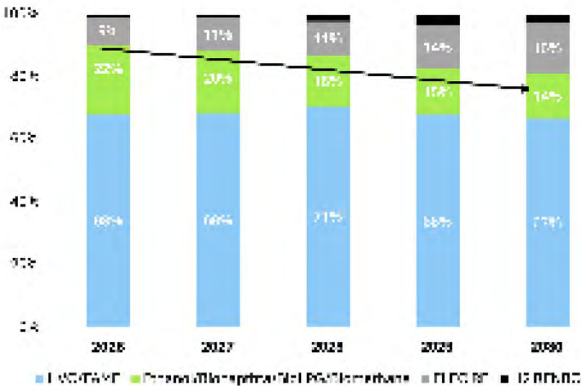


Fig.26 Contribution of each product category accross all mandates (% GHG)

T  
“  
XX% XXXX XX%



Restrictive rules imposed for electricity supplied in the private sector will limit the generation of savings from renewable electricity (ERE E).

As home chargers will be required to install a **MID-meter\*** to measure the specific consumption delivered to EVs (vs other uses in the households), the accountability ratio within the private sector should remain limited from 2026. In 2030, it is unlikely that all EV owners will have a MID certifier at home, making it impossible to account for all electricity used by the road sector eligible for the mandates.

C[REDACTED], [REDACTED] [REDACTED] [REDACTED] EV [REDACTED] [REDACTED] MID  
[REDACTED] [REDACTED]. A [REDACTED] [REDACTED] MID [REDACTED] [REDACTED] [REDACTED] [REDACTED]  
[REDACTED] [REDACTED], [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]  
[REDACTED] [REDACTED] [REDACTED] [REDACTED]. T [REDACTED] [REDACTED] [REDACTED] [REDACTED] MID M [REDACTED]  
[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] (ERE E) [REDACTED] [REDACTED]  
[REDACTED]. T [REDACTED] [REDACTED] [REDACTED] [REDACTED] ERE E [REDACTED] [REDACTED] [REDACTED].

I XXXX, [REDACTED]-[REDACTED] NE [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]  
 [REDACTED] EV [REDACTED], [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] XX% [REDACTED] [REDACTED]  
 [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] N [REDACTED], [REDACTED] [REDACTED] [REDACTED]  
 [REDACTED] [REDACTED] [REDACTED].

I XXXX, XX%  
 ERE E. A MID  
 ,  
 (%  
 ) X%

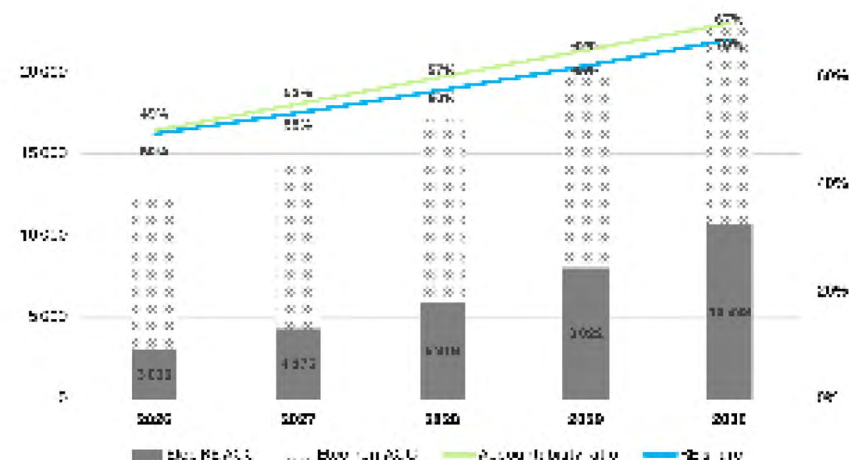


Fig.27 Accountable and non-accountable electricity under the LAND mandate (TJ)

I [redacted], [redacted] [redacted] (RE ACC)  
[redacted] XX% [redacted]  
[redacted] (X.X TW%). T [redacted]  
REDX [redacted] MS [redacted]  
[redacted].

```

|, | | | | MS | | | | |
| | | | | EV | | | | |
| | | | | REDX | XXXX.
T | | | REDX | |

```

# Products demand - Green H2

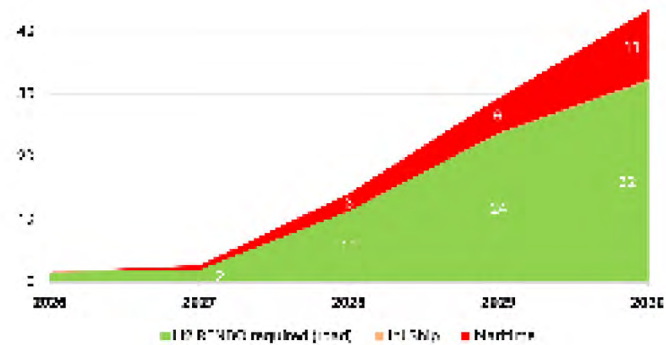


Fig.28 RFNBO required under each mandate (kt)

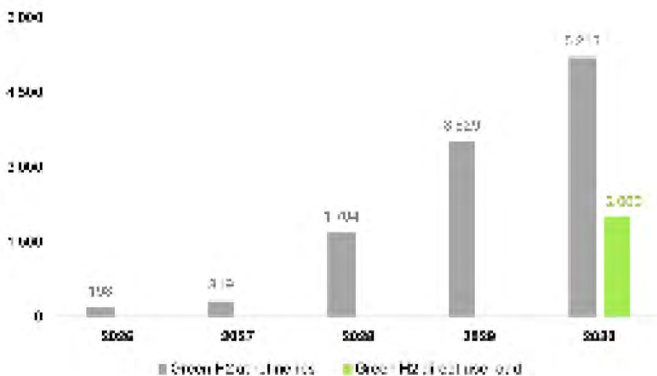


Fig.29 Green H2 required per type (PJ)

Once drafted at 0.4, the concept of a “correction factor” for green hydrogen (H2) used at refineries has finally been discarded, owing to the poor outlook for the development of e-fuels by 2030.

W [REDACTED] HX [REDACTED]  
[REDACTED]  
[REDACTED] XXXX.  
T RFNBO [REDACTED] L [REDACTED]  
[REDACTED], [REDACTED] X [REDACTED] XXXX [REDACTED] XX [REDACTED] XXXX. O [REDACTED]  
[REDACTED], [REDACTED] HX [REDACTED] D [REDACTED]

Early October, at the start of the Parliament examination of the draft, an amendment was passed by the lower Chamber to include a 2 PJ green H2 quota for “direct use” in the road sector.

A [REDACTED] XXXX [REDACTED]  
[REDACTED], [REDACTED] [REDACTED] [REDACTED]  
[REDACTED] [REDACTED] [REDACTED] [REDACTED]  
[REDACTED].

T [REDACTED] HX [REDACTED]

# RED3 compliance

The fulfilment of the national mandates does not exactly match the Dutch compliance under the RED3 targets, for the following reasons:

- Diesel, gasoline and fuel oil supplied to the **non-road sector** (i.e construction, agriculture, etc) are obliged under [REDACTED] REDX [REDACTED].
- S[REDACTED], [REDACTED]  
[REDACTED] LPG/CNG/LNG/[REDACTED]/[REDACTED]-[REDACTED].
- W[REDACTED] E[REDACTED] RE [REDACTED] REDX, MS [REDACTED]  
[REDACTED] XXXX [REDACTED] EV  
[REDACTED].
- E[REDACTED]  
[REDACTED].
- A[REDACTED]  
[REDACTED].

INCL. (INVTN) LOST, IN FUEL, H&STNG		EXCLUDED FROM NATIONAL SCHEM	
COAL	Diesel + Coal (incl. fuel) INVTN, H&STNG, LOST, IN FUEL Fuel H&STNG, LOST, IN FUEL Coal H&STNG, LOST, IN FUEL <b>20714</b>	LNG + NG (incl. fuel) Coal NG (H&STNG + LOST + IN FUEL)	20714
COAL	Diesel + Coal (incl. fuel) INVTN, H&STNG <b>12326</b>		
COAL	Marine Gas Oil INVTN, H&STNG Fuel H&STNG Diesel H&STNG <b>117526</b>	LNG (incl. fuel) Marine Gas Oil Fuel NG (H&STNG + LOST + IN FUEL) Coal NG (H&STNG + LOST + IN FUEL)	21508
NG	Diesel (incl. fuel) FUEL, H&STNG <b>636</b>	Fuel NG (H&STNG + LOST + IN FUEL) Coal NG	21508
AVIATION		Jet fuel (incl. fuel) GATE H&STNG	140518
RENEWABLE	Green H&STNG <b>2716</b>		
COAL	Diesel + Coal (incl. fuel) FUEL, H&STNG <b>40926</b>		
TOTAL	<b>20714</b>	<b>20714</b>	

Fig.30 Scheme mandates vs RED3 scopes

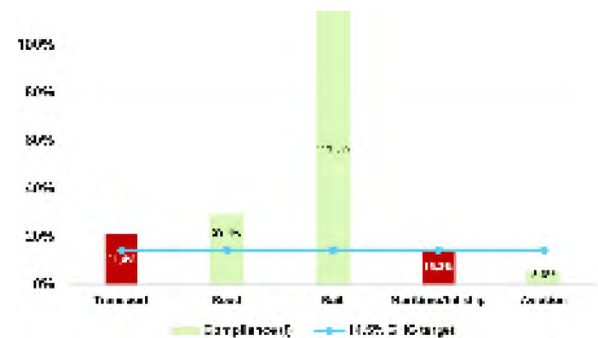


Fig.31 Projected compliance under GHG target with excess energy in maritime (% GHG)

Overall compliance is 24.5%, which is 10% above the 14.5% GHG target. The main driver for this is the high compliance in the rail sector, which is 100%.

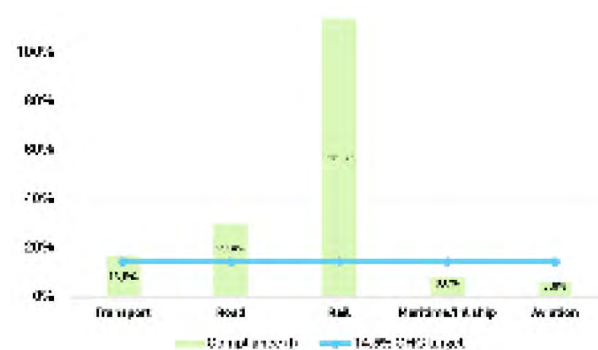


Fig.32 Projected compliance under GHG target without excess energy in maritime (% GHG)

Overall compliance is 24.5%, which is 10% above the 14.5% GHG target. The main driver for this is the high compliance in the rail sector, which is 100%.

The drivers explaining why the Netherlands will largely overcome the 14.5% GHG target are related to the excess energy on top of the 13% cap for maritime and to the national Climate action.

The main driver for this is the high compliance in the rail sector, which is 100%. The compliance in the maritime sector is 13%, which is 1% above the 12% cap. The compliance in the aviation sector is 1%, which is 1% below the 2% cap. The compliance in the road sector is 20%, which is 5% above the 15% cap. The compliance in the transport sector is 10%, which is 1% below the 11% cap. The compliance in the overall sector is 24.5%, which is 10% above the 14.5% GHG target.

The compliance in the maritime sector is 13%, which is 1% above the 12% cap. The compliance in the aviation sector is 1%, which is 1% below the 2% cap. The compliance in the road sector is 20%, which is 5% above the 15% cap. The compliance in the transport sector is 10%, which is 1% below the 11% cap. The compliance in the overall sector is 24.5%, which is 10% above the 14.5% GHG target.

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- The compliance in the road sector is 20%, which is 5% above the 15% cap.
- The compliance in the transport sector is 10%, which is 1% below the 11% cap.
- The compliance in the overall sector is 24.5%, which is 10% above the 14.5% GHG target.



Fig.33 Surplus and Deficits generated in 2030 under RED3 rules (t CO<sub>2</sub>)

Because a large share of the energy used by the rail sector will be renewable electricity, which savings are calculated against a fossil fuel comparator (183) much higher than the baseline (94), the GHG reduction hit a massive XXX.X%.

On [REDACTED], [REDACTED], [REDACTED] XX.X%  
[REDACTED]. R [REDACTED], [REDACTED], [REDACTED] ( [REDACTED] HX – [REDACTED] REDX)  
[REDACTED] [REDACTED] X.XX M [REDACTED] COX [REDACTED]  
[REDACTED]. S [REDACTED] [REDACTED] [REDACTED] X.XX M [REDACTED] COX [REDACTED]. T [REDACTED]  
[REDACTED] [REDACTED] [REDACTED] X.XX M [REDACTED] COX [REDACTED] XX.X%  
[REDACTED].

U[REDACTED], [REDACTED]-[REDACTED] XA [REDACTED] RFNBO [REDACTED] D[REDACTED]. A [REDACTED], [REDACTED] X.X% [REDACTED] XA-RFNBO [REDACTED] X.X [REDACTED] X.T [REDACTED] X% [REDACTED] RFNBO [REDACTED] (+X.X%).

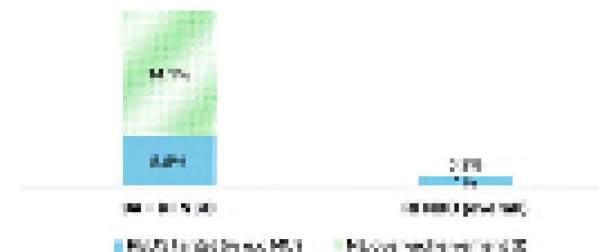


Fig.34 Projected compliance under 9A/RFNBO sub-target (% e.c)

A [REDACTED] N [REDACTED]  
[REDACTED]  
REDX, [REDACTED] X.X% [REDACTED]  
[REDACTED] RFNBO [REDACTED]  
[REDACTED]. T [REDACTED]

# Sensitivity

## Road electrification pace

The ELEC scenario assumes a faster roll-out of electric vehicles, reducing liquid fuel demand. The RENF scenario reflects a plateau in electrification, increasing the need for low-carbon fuels to meet mandates.

T ██████████ HVO ██████████  
I ██████████ - ██████████ ██████████  
██████████, ██████████ FAME ██████████  
██████████. F ██████████  
██████████ HVO ██████████, ██████████ ELEC ██████████ ██████████  
██████████ X.XX ██████████ (HVO ██████████) ██████████ ██████████  
GW ██████████ - ██████████ ██████████. C ██████████,  
██████████ ██████████ ██████████ ██████████, ██████████ RENF, ██████████  
██████████ ██████████ - ██████████ ██████████ X.XX ██████████ GW ██████████  
██████████ ██████████ ██████████. T ██████████ ██████████ ██████████



Fig.35 Electrification pace sensitivities 2030 vs BASE scenario (kt)



# Low-carbon fuel CI

We modelled a  $\pm 3$  gCO<sub>2</sub>e/MJ variation in the average carbon intensity of ethanol, HVO and HVO to assess its impact on compliance and overall emissions.



Fig.36 CI sensitivity impact (kt)

HVO [redacted], [redacted] FAME [redacted]  
[redacted]. A [redacted] XX [redacted] COX/MJ [redacted],  
[redacted] XA [redacted] XB [redacted]. T [redacted]  
[redacted], [redacted] [redacted] [redacted] [redacted]

# Conclusion

The Dutch policy proposed in 2025 and to be enforced, most likely, from 1 January 2026, will guarantee that the most important obligations under RED3 will be largely respected, at the exception of the 1.2% e.c sub-target for RFNBOs supplied directly to the maritime sector.

T  
XXXXXX  
  
XXXXX XXXX XX%  
XXX M . F  
XXX XX% X.X M

---

E[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]  
[REDACTED] [REDACTED] [REDACTED] HVO [REDACTED] [REDACTED] X M [REDACTED] XXXX. O [REDACTED] [REDACTED]  
[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]  
[REDACTED] [REDACTED] [REDACTED] [REDACTED] XXXX [REDACTED] XXXX, [REDACTED] [REDACTED] [REDACTED]  
[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED].

T FAME [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]  
[REDACTED] [REDACTED] [REDACTED], [REDACTED] [REDACTED] [REDACTED] XX% [REDACTED] [REDACTED] [REDACTED] XXXX. S [REDACTED]  
[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] N [REDACTED], [REDACTED] [REDACTED]  
[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED].

A \_\_\_\_\_

[REDACTED] [REDACTED], [REDACTED] X [REDACTED] ([REDACTED] [REDACTED]  
[REDACTED] [REDACTED]) [REDACTED] [REDACTED].

T RFNBO - - - - -  
 - - - - - HX - - - - -  
 - - - - -.

A [REDACTED] S [REDACTED], [REDACTED]  
[REDACTED] N [REDACTED] [REDACTED] XA [REDACTED]  
[REDACTED]. A [REDACTED], [REDACTED]  
XX% [REDACTED] XA. L [REDACTED]-  
[REDACTED] XB [REDACTED] (XX%) [REDACTED]  
(XX%) [REDACTED].

I \_\_\_\_\_, \_\_\_\_\_ RFNBO (X%) \_\_\_\_\_  
\_\_\_\_\_-\_\_\_\_\_ (X%).

T \_\_\_\_\_  
\_\_\_\_\_.  
\_\_\_\_\_.

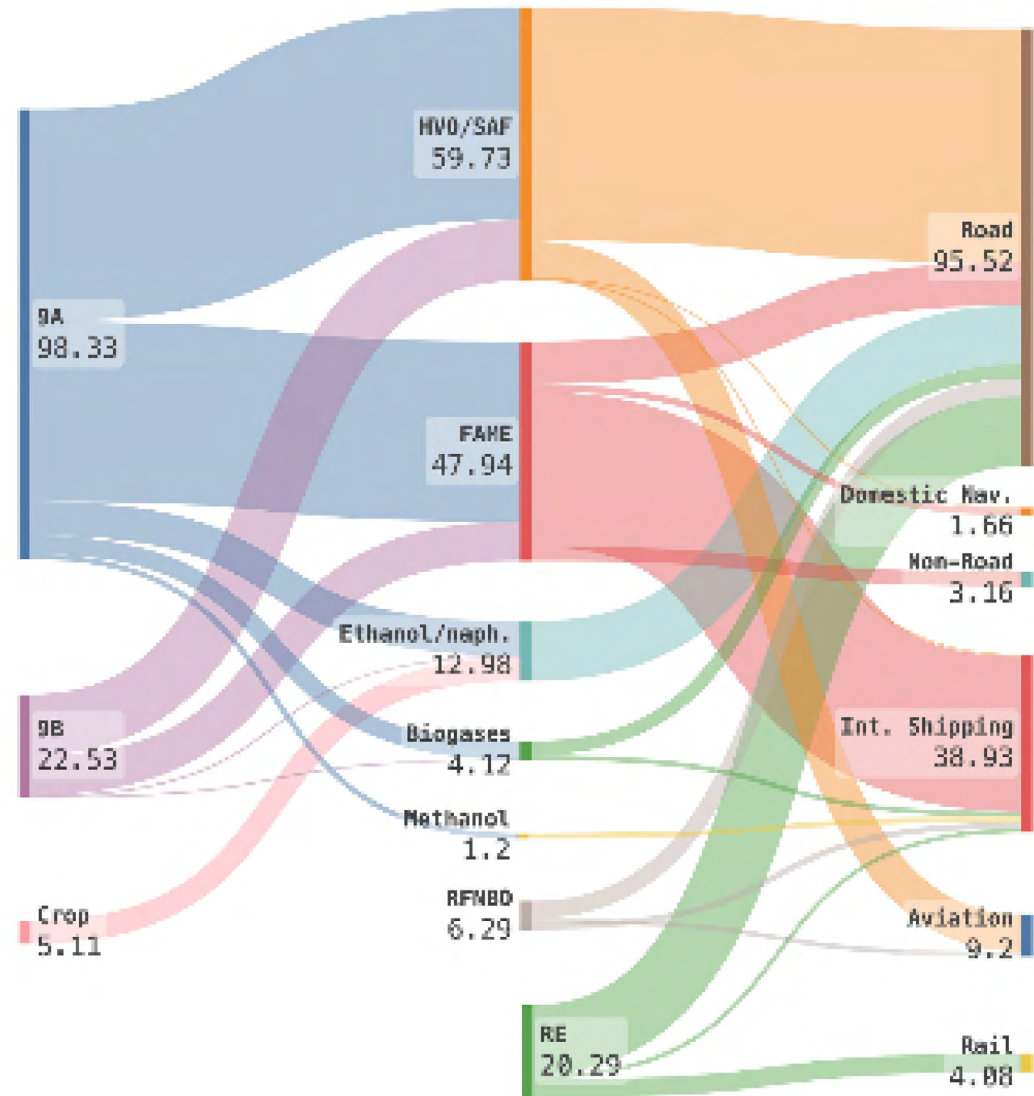


Fig.37 Feedstocks, products, sectors compliance - 2030 (PJ)

# Abbreviations

**BEV** Battery Electric Vehicle

**DOM** Domestic

**F** Forecast

**ERE** Emission Reduction Unit

**Elec RE** Renewable Electricity

**EV** Electric Vehicle

**FEUM** Fuel EU Maritime

**HEV** Hybrid Electric Vehicle

**PHEV** Plug-in Hybrid Electric Vehicle

**INL SHIP** Inland Shipping

**OPS** Onshore Power Supply

**RCF** Recycled Carbon Fuels

**RFNBO** Renewable Fuels from Non Biomass Origin

**AF C1, C2, C3** Animal Fats category 1, 2, 3

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## RED3 transposition in the Netherlands

Modelling energy demand in transport for 2026-2030