

Renewable Fuel Statistics, 2021

First Provisional Tables

The tables in this worksheet are:

- [RF_0101](#) Volumes of fuels by fuel type: United Kingdom, 2021 (fifth provisional)
- [RF_0102](#) Volumes of renewable fuel to which Renewable Transport Fuel Certificates (RTFCs) have been issued and number of RTFCs issued: United Kingdom, 2021 (fifth provisional)
- [RF_0103](#) RTFC balances by obligation period: United Kingdom, 2018 to 2021 (fifth provisional)
- [RF_0104](#) RTFCs transferred by quarter, certificate category and RTFO account holder type: United Kingdom, RTFCs issued for the 2020 and 2021 (fifth provisional) periods
- [RF_0105](#) Carbon and sustainability data of renewable transport fuel: United Kingdom, 2021 (fifth provisional)
- [RF_0106](#) Voluntary scheme data of renewable transport fuel: United Kingdom, 2021 (fifth provisional)

Notes

These tables contain fuel that is obligated under the Renewable Transport Fuel Obligation Order.

Definitions

RTFCs Renewable Transport Fuel Certificates

Further information

For further details alongside these tables, see the:

- [- Notes and definitions](#)
- [- Report](#)
- [- Guidance on the RTFO](#)

Table RF 0101
Volumes of fuels by fuel type1: United Kingdom, 2021 (fifth provisional)
Provisional data

Data is for information received by the DfT as of 04/07/2022 and is provisional. The final report for 2021 will be published in Nov 2022.

		Supply periods ¹													Volume, million litres eq. ²		Percentage of total fuel supply
Fuel Type		Jan	Jan-Feb	Feb-Mar	Mar-Apr	Apr-May	May-Jun	Jun-Jul	Jul-Aug	Aug-Sep	Sep-Oct	Oct-Nov	Nov-Dec	Dec	Total*		
Fossil fuel	Diesel	694	1,823	1,889	2,098	2,231	2,307	2,245	2,329	2,248	2,357	2,304	2,332	1,040	25,898	54.7%	
	Low sulphur gas oil	143	365	392	459	425	408	437	471	488	462	407	399	161	5,018	10.6%	
	MTBE (fossil portion)	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0.0%	
	Petrol	400	714	790	1,056	1,245	1,303	1,280	1,309	1,304	1,287	1,288	1,279	589	13,843	29.3%	
	Total fossil fuel	1,237	2,902	3,071	3,612	3,901	4,018	3,963	4,110	4,040	4,106	3,999	4,010	1,790	44,758	94.6%	
Regular renewable fuel	Avtur (renewable)	-	-	-	-	-	-	2	-	1	1	0	14	-	19	0.0%	
	Bio Petrol	-	6	6	6	6	5	6	6	4	1	10	6	-	62	0.1%	
	Biobutane	-	-	-	-	-	-	-	-	-	0	-	-	0	0	0.0%	
	Biodiesel ME	44	106	111	129	109	92	116	101	118	89	81	96	47	1,240	2.6%	
	Bioethanol	17	33	41	50	60	63	65	68	78	97	95	95	47	809	1.7%	
	Biomethane (compressed)	-	-	-	13	-	-	14	-	-	14	4	5	6	57	0.1%	
	Biomethane (liquified)	-	2	2	9	2	2	9	2	2	10	2	2	11	56	0.1%	
	Biopropane	-	-	-	19	-	-	14	-	-	21	-	-	10	64	0.1%	
	Diesel (origin Bio)	-	2	2	2	2	2	2	2	1	0	4	2	0	21	0.0%	
	HVO ⁵	1	3	3	3	3	4	4	5	5	6	10	10	5	63	0.1%	
	Methanol (bio)	5	1	7	1	-	5	2	2	5	3	9	6	7	53	0.1%	
	MTBE (renewable portion)	1	-	-	-	-	-	-	-	-	-	-	-	-	1	0.0%	
	Off road biodiesel	5	10	9	10	10	6	6	8	8	6	6	5	3	92	0.2%	
	Pure bio oil ⁴	-	-	-	-	-	0	0	0	0	-	1	1	0	3	0.0%	
	Total regular renewable fuel	73	163	181	242	192	179	241	195	222	248	221	243	138	2,538	5.4%	
Development renewable fuel	Bio-Synthetic Natural Gas	-	-	-	-	-	-	-	-	-	-	-	0	-	0	0.0%	
	Development diesel	-	-	0	0	0	-	-	-	0	0	0	0	13	14	0.0%	
	Development petrol	-	-	0	0	0	0	1	-	3	0	0	0	4	10	0.0%	
	Hydrogen	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0.0%	
	Total development renewable fuel	-	-	0	1	0	0	1	-	4	1	0	0	17	24	0.1%	
Renewable fuel	Total renewable fuel	73	163	182	243	192	179	241	195	225	249	222	243	155	2,562	5.4%	
All fuel	Total all fuel	1,310	3,065	3,253	3,854	4,094	4,197	4,204	4,305	4,265	4,355	4,221	4,254	1,944	47,321	100.0%	

Legend: "-" is a true zero; "0" is a value less than half the displayed unit (1 million litres equivalent).

1 This table contains all the data submitted for consideration as required under the RTFO Order. This includes both information on renewable fuel certified and accepted as sustainable as well as in progress applications of renewable fuel which are yet to be accepted as sustainable by the RTFO Unit.

2 Renewable gases (such as biomethane and biopropane) are reported in kg but are converted to equivalent litres using standard multiplication factors (1.9 and 1.75 respectively) as stated in the RTFO Order.

3 Supply periods start on the 15th of one month and end on the 14th of the next. Except for January (start 1st end 14th) and December (start 15th end 31st).

4 "Pure bio oil" is a new fuel type classification for 2021 and includes fuels referred to as "Pure vegetable oil" in previous years' reports.

5 "HVO" (hydrotreated vegetable oil) was named "Biodiesel HVO" in previous reports

For further details alongside these tables, see the:

- [Notes and definitions](#)
- [Report](#)
- [Guidance on the RTFO](#)

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Telephone: 0207 944 4847
[Email: Environment.stats@dft.gov.uk](mailto:Environment.stats@dft.gov.uk)

The figures in this table are outside the scope of National Statistics.

Department for Transport statistics

[RTFO Statistics \(https://www.gov.uk/government/collections/renewable-fuel-statistics\)](https://www.gov.uk/government/collections/renewable-fuel-statistics)

Table RF 0102

Volumes of renewable fuel to which Renewable Transport Fuel Certificates (RTFCs) have been issued and number of RTFCs issued¹: United Kingdom
Provisional data

Data is for information received by the DfT as of 04/07/2022 and is provisional. The final report for 2021 will be published in Nov 2022.

Measure	RTFC category	Supply periods ^{3,4}											
		Jan	Jan-Feb	Feb - Mar	Mar - Apr	Apr - May	May - Jun	Jun - Jul	Jul - Aug	Aug - Sep	Sep - Oct	Oct - Nov	Nov - Dec
Number of RTFCs issued (millions)	Development Fuel ⁵	-	-	1	2	1	0	1	-	7	1	1	1
	General	121	257	293	396	319	284	394	286	323	297	295	303
	Relevant Crop	12	25	35	44	32	37	44	51	43	82	72	78
	Total	133	282	328	441	352	321	439	338	373	380	367	382
Fuel volumes (RTFCs issued) (millions)	Development Fuel ⁵	-	-	0	1	0	0	1	-	4	1	0	0
	General	60	128	146	198	160	142	197	143	161	149	148	151
	Relevant Crop	12	25	35	44	32	37	44	51	43	82	72	78
	Total	73	154	182	242	192	179	241	194	208	231	220	230
Total volume of renewable fuel	Total	73	163	182	243	192	179	241	195	225	249	222	243
Percentage of renewable fuel to which RTFCs have been issued ⁶	Percent	100%	94%	100%	100%	100%	100%	100%	100%	92%	93%	99%	94%

Legend: "-" is a true zero; "0" is a value less than half the displayed unit (1 million litres equivalent).

¹ This table contains all the data submitted for consideration as required under the RTFO Order. This includes but information on renewable fuel certified and accepted as sustainable as well as in progress applications of renewable fuel which are yet to be accepted as sustainable by the RTFO Unit.

² Renewable gases (such as biomethane and biopropane) are reported in kg but are converted to equivalent litres using standard multiplication factors (1.9 and 1.75 respectively) as stated in

³ Figures may include any RTFCs where a proposal of revocation has been issued but the RTFCs have not yet been revoked.

⁴ Supply periods start on the 15th of one month and end on the 14th of the next. Except for January (start 1st end 14th) and December (start 15th end 31st).

⁵ Development fuel RTFC categories and obligation was introduced in 2019

⁶ See notes to data under 'HO930

For further details alongside these tables, see the:

[- Notes and definitions](#)

[- Report](#)

[- Guidance on the RTFO](#)

The figures in this table are outside the scope of National Statistics.

Department for Transport statistics

RTFO Statistics (<https://www.gov.uk/government/collections/renewable-fuel-statistics>)

Table RF 0103

RTFC balances by obligation period¹: United Kingdom, 2018 to 2021 (fifth provisional)

Provisional data

Data is for information received by the DfT as of 04/07/2022 and is provisional. The final report for 2021 will be published

Status	GHG saving category / RTFC category ³	Million RTFCs			
		2018 ²	2019	2020	2021 (provisional)
Issued	Development Fuel ⁴	-	0	0	48
	General	2,085	3,677	3,878	3,853
	Relevant Crop	478	841	598	599
	Total Issued	2,563	4,518	4,476	4,500
Revoked	Development Fuel ⁴	-	-	-	-
	General	4	2	3	98
	Relevant Crop	-	0	2	-
	Total Revoked	4	2	5	98
Redeemed	Development Fuel ⁴	-	0	0	-
	General	2,081	3,456	3,477	-
	Relevant Crop	477	840	594	-
	Total Redeemed	2,558	4,297	4,072	-
Still in existence	All categories	0	220	400	4,401

Legend: "-" is a true zero; "0" is a value less than half the displayed unit (1 million RTFCs).

¹ This table contains data on RTFCs issued to renewable fuel certified as sustainable.

² Due to the change from financial to calendar year, 2018 is a short covering April to December 2018. From 2019 onwards all data will be reported for calendar years.

³ From 15th April 2018 new RTFC categories were introduced (general, relevant crop and development fuel). These replaced the GHG emission categories used in 2017/18 and in previous reports.

⁴ Development Fuels RTFC was introduced in 2019.

Department for Transport statistics

RTFO Statistics (<https://www.gov.uk/government/collections/renewable-fuel-statistics>)

Table RF 0104

RTFCs transferred by quarter, certificate category and RTFO account holder type¹: United Kingdom, RTFCs

Provisional data

Data is for information received by the DfT as of 04/07/2022 and is provisional. The final report for 2021 will be published in Nov 2022

Million RTFCs						
		RTFC category ²				
Obligation period for which RTFCs were issued	Quarter in which transfer occurred	Account types	Development Fuels	General	Relevant Crop	Total
2020	Q48 - Jan20-Apr20	HO10 to HO10	-	1	5	6
		HO10 to HO930	-	-	-	-
		HO10 to Trader	-	-	-	-
		HO930 to HO10	-	3	-	3
		HO930 to HO930	-	-	-	-
		HO930 to Trader	-	-	0	0
		Trader to HO10	-	-	-	-
		Trader to HO930	-	-	-	-
		Trader to Trader	-	-	-	-
		All account types	-	4	5	9
2020	Q49 - Apr20-Jul20	HO10 to HO10	-	28	25	54
		HO10 to HO930	-	1	-	1
		HO10 to Trader	-	12	-	12
		HO930 to HO10	-	33	0	33
		HO930 to HO930	-	9	-	9
		HO930 to Trader	0	6	-	6
		Trader to HO10	0	9	-	9
		Trader to HO930	-	-	-	-
		Trader to Trader	-	-	-	-
		All account types	0	99	25	124
2020	Q50 - Jul20-Oct20	HO10 to HO10	-	45	7	52
		HO10 to HO930	-	-	-	-
		HO10 to Trader	-	13	2	15
		HO930 to HO10	-	19	0	19
		HO930 to HO930	-	13	-	13
		HO930 to Trader	-	3	-	3
		Trader to HO10	-	23	-	23
		Trader to HO930	-	-	-	-
		Trader to Trader	-	-	-	-
		All account types	-	116	9	125
		HO10 to HO10	-	233	100	333
		HO10 to HO930	-	8	-	8
		HO10 to Trader	-	53	4	57

2020	Q51 - Oct20-Dec20	HO930 to HO10	-	44	0	44
		HO930 to HO930	-	19	0	20
		HO930 to Trader	-	5	-	5
		Trader to HO10	-	57	5	62
		Trader to HO930	-	-	-	-
		Trader to Trader	-	-	-	-
		All account types	-	418	110	528
2020	Q52 - Jan21-Apr21	HO10 to HO10	0	621	138	759
		HO10 to HO930	-	0	-	0
		HO10 to Trader	0	131	23	154
		HO930 to HO10	-	69	14	83
		HO930 to HO930	-	19	-	19
		HO930 to Trader	-	15	-	15
		Trader to HO10	0	127	24	151
		Trader to HO930	-	-	-	-
		Trader to Trader	-	-	-	-
All account types	0	983	198	1,182		
2020	Q53 - Apr21-Jul21	HO10 to HO10	-	230	70	300
		HO10 to HO930	-	-	-	-
		HO10 to Trader	-	10	0	10
		HO930 to HO10	-	44	35	78
		HO930 to HO930	-	5	1	5
		HO930 to Trader	0	0	-	0
		Trader to HO10	0	26	0	26
		Trader to HO930	-	-	-	-
		Trader to Trader	-	-	-	-
All account types	0	314	106	419		
2020	Q54 - Jul21-Oct21	HO10 to HO10	-	158	4	162
		HO10 to HO930	-	-	-	-
		HO10 to Trader	-	7	-	7
		HO930 to HO10	-	13	14	27
		HO930 to HO930	-	-	-	-
		HO930 to Trader	-	0	-	0
		Trader to HO10	-	13	0	13
		Trader to HO930	-	-	-	-
		Trader to Trader	-	-	-	-
All account types	-	190	18	208		
2020	Q55 - Oct21-Dec21	HO10 to HO10	-	-	-	-
		HO10 to HO930	-	-	-	-
		HO10 to Trader	-	0	-	0
		HO930 to HO10	-	-	-	-
		HO930 to HO930	-	-	-	-
		HO930 to Trader	-	-	-	-
		Trader to HO10	-	0	-	0
		Trader to HO930	-	-	-	-
		Trader to Trader	-	-	-	-

		All account types	-	0	-	0
2020	Q56 - Jan22-Apr22	HO10 to HO10	-	24	-	24
		HO10 to HO930	-	-	-	-
		HO10 to Trader	-	-	-	-
		HO930 to HO10	-	-	-	-
		HO930 to HO930	-	-	-	-
		HO930 to Trader	-	-	-	-
		Trader to HO10	-	0	-	0
		Trader to HO930	-	-	-	-
		Trader to Trader	-	-	-	-
		All account types	-	24	-	24
2020	Q57 - Apr22-Jul22	HO10 to HO10	-	35	-	35
		HO10 to HO930	-	-	-	-
		HO10 to Trader	-	-	-	-
		HO930 to HO10	-	-	2	2
		HO930 to HO930	-	-	-	-
		HO930 to Trader	-	-	-	-
		Trader to HO10	-	-	-	-
		Trader to HO930	-	-	-	-
		Trader to Trader	-	-	-	-
		All account types	-	35	2	37
2020	All quarters	HO10 to HO10	0	1,375	350	1,724
		HO10 to HO930	-	9	-	9
		HO10 to Trader	0	226	29	255
		HO930 to HO10	-	224	65	289
		HO930 to HO930	-	65	1	67
		HO930 to Trader	0	29	0	29
		Trader to HO10	0	255	29	284
		Trader to HO930	-	-	-	-
		Trader to Trader	-	-	-	-
		All account types	0	2,182	474	2,657
2021	Q52 - Jan21-Apr21	HO10 to HO10	-	-	-	-
		HO10 to HO930	-	-	-	-
		HO10 to Trader	-	-	-	-
		HO930 to HO10	-	-	0	0
		HO930 to HO930	-	-	-	-
		HO930 to Trader	-	0	-	0
		Trader to HO10	-	-	-	-
		Trader to HO930	-	-	-	-
		Trader to Trader	-	-	-	-
		All account types	-	0	0	0
		HO10 to HO10	-	41	14	55
		HO10 to HO930	-	-	4	4
		HO10 to Trader	-	28	-	28
		HO930 to HO10	-	31	0	31
		HO930 to HO930	-	4	-	4

2021	Q53 - Apr21-Jul21	HO930 to Trader	-	1	-	1
		Trader to HO10	-	-	-	-
		Trader to HO930	-	-	-	-
		Trader to Trader	-	-	-	-
		All account types	-	105	18	123
2021	Q54 - Jul21-Oct21	HO10 to HO10	-	159	30	189
		HO10 to HO930	-	-	-	-
		HO10 to Trader	-	109	-	109
		HO930 to HO10	-	58	0	58
		HO930 to HO930	-	11	-	11
		HO930 to Trader	-	0	-	0
		Trader to HO10	-	122	-	122
		Trader to HO930	-	-	-	-
		Trader to Trader	-	8	-	8
		All account types	-	466	30	496
2021	Q55 - Oct21-Dec21	HO10 to HO10	-	305	77	382
		HO10 to HO930	-	-	3	3
		HO10 to Trader	-	134	10	144
		HO930 to HO10	-	54	14	68
		HO930 to HO930	-	-	1	1
		HO930 to Trader	-	10	-	10
		Trader to HO10	-	88	10	98
		Trader to HO930	-	-	-	-
		Trader to Trader	-	1	-	1
		All account types	-	592	115	707
2021	Q56 - Jan22-Apr22	HO10 to HO10	-	385	148	532
		HO10 to HO930	-	7	1	7
		HO10 to Trader	-	139	-	139
		HO930 to HO10	-	153	33	187
		HO930 to HO930	-	23	-	23
		HO930 to Trader	-	8	-	8
		Trader to HO10	-	133	-	133
		Trader to HO930	-	-	-	-
		Trader to Trader	-	-	-	-
		All account types	-	849	182	1,030
2021	Q57 - Apr22-Jul22	HO10 to HO10	0	339	74	413
		HO10 to HO930	-	-	-	-
		HO10 to Trader	1	431	0	432
		HO930 to HO10	-	25	8	33
		HO930 to HO930	-	8	-	8
		HO930 to Trader	0	2	-	2
		Trader to HO10	-	129	0	129
		Trader to HO930	-	-	-	-
		Trader to Trader	-	0	-	0
		All account types	1	935	82	1,018
		HO10 to HO10	0	1,229	342	1,571

2021	All quarters	HO10 to HO930	-	7	8	15
		HO10 to Trader	1	841	10	852
		HO930 to HO10	-	321	56	376
		HO930 to HO930	-	46	1	47
		HO930 to Trader	0	23	-	23
		Trader to HO10	-	472	10	482
		Trader to HO930	-	-	-	-
		Trader to Trader	-	9	-	9
		All account types	1	2,946	427	3,375

Legend: "-" is a true zero; "0" is a value less than half the displayed unit (1 million RTFCs).

¹ This table contains data on RTFCs issued to renewable fuel certified as sustainable.

² From 15th April 2018 new RTFC categories are introduced (general, relevant crop and development fuel). These

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Department for Transport statistics

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Table RF 0105

Carbon and sustainability data of renewable transport fuel¹: United Kingdom, 2021 (fifth provisional)

Provisional data

Data is for information received by the DfT as of 04/07/2022 and is provisional. The final report for 2021 will be published in Nov 2022.

Fuel type	Feedstock	Country of origin	RTFC Category ^{2,3}	Double counted feedstock?	Volume, million litres eq ⁴	Volume, % of fuel	ILUC factor, gCO ₂ e/MJ	Carbon intensity, gCO ₂ e / MJ		GHG saving, % ⁶	
								excl. ILUC	incl. ILUC	excl. ILUC	incl. ILUC
Avtur (renewable)	Tallow - category 2 or uncategorised	Finland	General	No	0	0.0%	0	19	19	78	78
	Used cooking oil	Belgium	General	Yes	1	0.0%	0	8	8	90	90
		China	General	Yes	4	0.2%	0	9	9	89	89
		Finland	General	Yes	1	0.0%	0	6	6	93	93
		Hong Kong	General	Yes	0	0.0%	0	7	7	92	92
		Indonesia	General	Yes	0	0.0%	0	8	8	91	91
		Malaysia	General	Yes	2	0.1%	0	9	9	89	89
		Netherlands	General	Yes	1	0.0%	0	6	6	93	93
		Saudi Arabia	General	Yes	1	0.0%	0	14	14	83	83
		Spain	General	Yes	1	0.0%	0	8	8	90	90
		United Arab Emirates	General	Yes	0	0.0%	0	9	9	89	89
		United Kingdom	General	Yes	6	0.2%	0	6	6	92	92
		United States	General	Yes	0	0.0%	0	11	11	87	87
	All feedstocks	All countries	All certificates	All counting types	19	0.7%	0	9	9	89	89
Bio-Synthetic Natural Gas	End of life tyres (renewable component)	United Kingdom	Development Fuel	Yes	0	0.0%	0	1	1	99	99
Bio-Synthetic Natural Gas Total	All feedstocks	All countries	All certificates	All counting types	0	0.0%	0	1	1	99	99
Bio Petrol	Food waste	United Kingdom	General	Yes	1	0.0%	0	5	5	94	94
	Used cooking oil	Albania	General	Yes	0	0.0%	0	8	8	90	90
		Argentina	General	Yes	1	0.0%	0	8	8	91	91
		Australia	General	Yes	0	0.0%	0	8	8	90	90
		Canada	General	Yes	0	0.0%	0	8	8	90	90
		Chile	General	Yes	1	0.0%	0	8	8	90	90
		China	General	Yes	4	0.2%	0	8	8	90	90
		Colombia	General	Yes	0	0.0%	0	7	7	91	91
		Denmark	General	Yes	0	0.0%	0	8	8	90	90
		Egypt	General	Yes	0	0.0%	0	8	8	91	91
		Georgia	General	Yes	0	0.0%	0	9	9	90	90
		Germany	General	Yes	0	0.0%	0	8	8	90	90
		Hong Kong	General	Yes	0	0.0%	0	7	7	92	92
		Iceland	General	Yes	0	0.0%	0	9	9	90	90
		India	General	Yes	0	0.0%	0	9	9	90	90
		Indonesia	General	Yes	5	0.2%	0	8	8	90	90
		Iraq	General	Yes	0	0.0%	0	8	8	91	91
		Ireland, Republic of	General	Yes	0	0.0%	0	8	8	90	90
		Japan	General	Yes	0	0.0%	0	9	9	90	90
		Jordan	General	Yes	0	0.0%	0	8	8	90	90
		Kuwait	General	Yes	0	0.0%	0	8	8	90	90
		Malaysia	General	Yes	21	0.8%	0	8	8	91	91
		Mexico	General	Yes	0	0.0%	0	8	8	90	90
		Netherlands	General	Yes	4	0.2%	0	8	8	90	90
		Qatar	General	Yes	0	0.0%	0	8	8	90	90
		Republic of Korea	General	Yes	0	0.0%	0	8	8	90	90
		Saudi Arabia	General	Yes	1	0.1%	0	8	8	90	90
		Singapore	General	Yes	2	0.1%	0	8	8	90	90
		South Africa	General	Yes	0	0.0%	0	7	7	91	91
		Spain	General	Yes	0	0.0%	0	8	8	90	90
		Taiwan	General	Yes	1	0.0%	0	7	7	92	92
		Thailand	General	Yes	1	0.0%	0	8	8	90	90
		United Arab Emirates	General	Yes	0	0.0%	0	8	8	90	90
		United Kingdom	General	Yes	17	0.7%	0	8	8	91	91

		United States	General	Yes	0	0.0%	0	9	9	89	89
		Uruguay	General	Yes	0	0.0%	0	7	7	91	91
		Vietnam	General	Yes	0	0.0%	0	8	8	90	90
Bio Petrol Total	All feedstocks	All countries	All certificates	All counting types	62	2.5%	0	8	8	90	90
Biobutane	Food waste	Poland	General	Yes	0	0.0%	0	13	13	84	84
Biobutane Total	All feedstocks	All countries	All certificates	All counting types	0	0.0%	0	13	13	84	84
Biodiesel ME	Brown grease	Australia	General	Yes	0	0.0%	0	14	14	83	83
		China	General	Yes	3	0.1%	0	12	12	86	86
		Russian Federation	General	Yes	0	0.0%	0	14	14	83	83
		South Africa	General	Yes	0	0.0%	0	14	14	83	83
		Spain	General	Yes	0	0.0%	0	16	16	81	81
		United Kingdom	General	Yes	1	0.0%	0	12	12	85	85
		United States	General	Yes	1	0.1%	0	14	14	83	83
	Crude glycerine	France	General	Yes	0	0.0%	0	12	12	85	85
		Portugal	General	Yes	0	0.0%	0	12	12	85	85
		Spain	General	Yes	0	0.0%	0	13	13	84	84
		United Kingdom	General	Yes	0	0.0%	0	14	14	83	83
	Food waste	Indonesia	General	Yes	1	0.0%	0	18	18	79	79
		Ireland, Republic of	General	Yes	0	0.0%	0	14	14	84	84
		Spain	General	Yes	0	0.0%	0	16	16	81	81
		United Kingdom	General	Yes	3	0.1%	0	14	14	83	83
	Palm oil mill effluent	Guatemala	General	Yes	0	0.0%	0	20	20	76	76
	Sewage system FOG	United Kingdom	General	Yes	1	0.0%	0	13	13	84	84
	Soapstock acid oil contaminated with sulphur	Argentina	General	Yes	3	0.1%	0	21	21	75	75
		Australia	General	Yes	0	0.0%	0	22	22	74	74
		Belgium	General	Yes	1	0.0%	0	17	17	79	79
		Colombia	General	Yes	0	0.0%	0	18	18	79	79
		France	General	Yes	0	0.0%	0	16	16	81	81
		Germany	General	Yes	1	0.0%	0	18	18	79	79
		Honduras	General	Yes	1	0.0%	0	19	19	77	77
		Italy	General	Yes	4	0.2%	0	17	17	80	80
		Morocco	General	Yes	1	0.0%	0	16	16	81	81
		Netherlands	General	Yes	2	0.1%	0	19	19	77	77
		Poland	General	Yes	0	0.0%	0	15	15	82	82
		Portugal	General	Yes	1	0.1%	0	18	18	79	79
		Slovakia	General	Yes	0	0.0%	0	15	15	82	82
		Spain	General	Yes	1	0.0%	0	17	17	80	80
		United Kingdom	General	Yes	1	0.0%	0	18	18	78	78
	Soy	Argentina	Relevant Crop	No	0	0.0%	55	33	88	61	-5
	Tallow - category 1	Belgium	General	Yes	0	0.0%	0	14	14	83	83
		France	General	Yes	2	0.1%	0	14	14	83	83
		Hungary	General	Yes	1	0.0%	0	14	14	83	83
		Ireland, Republic of	General	Yes	6	0.2%	0	14	14	83	83
		Spain	General	Yes	1	0.0%	0	14	14	83	83
		United Kingdom	General	Yes	6	0.3%	0	14	14	83	83
	Used cooking oil	Albania	General	Yes	0	0.0%	0	12	12	86	86
		Argentina	General	Yes	4	0.2%	0	11	11	87	87
		Aruba	General	Yes	0	0.0%	0	8	8	90	90
		Australia	General	Yes	18	0.7%	0	12	12	86	86
		Austria	General	Yes	0	0.0%	0	10	10	88	88
		Bahrain	General	Yes	1	0.0%	0	11	11	86	86
		Belarus	General	Yes	0	0.0%	0	10	10	88	88
		Belgium	General	Yes	7	0.3%	0	10	10	88	88
		Bolivia	General	Yes	0	0.0%	0	12	12	86	86
		Brazil	General	Yes	0	0.0%	0	14	14	83	83
		Bulgaria	General	Yes	2	0.1%	0	11	11	87	87
		Cambodia	General	Yes	1	0.0%	0	12	12	86	86
		Canada	General	Yes	9	0.3%	0	11	11	87	87
		Chile	General	Yes	14	0.6%	0	11	11	87	87
		China	General	Yes	542	21.7%	0	10	10	89	89
		Colombia	General	Yes	1	0.0%	0	11	11	87	87
		Croatia	General	Yes	0	0.0%	0	9	9	89	89
		Cyprus	General	Yes	0	0.0%	0	11	11	87	87
		Czech Republic	General	Yes	2	0.1%	0	10	10	88	88

	Denmark	General	Yes	0	0.0%	0	11	11	87	87
	Ecuador	General	Yes	0	0.0%	0	12	12	86	86
	Egypt	General	Yes	12	0.5%	0	13	13	85	85
	Estonia	General	Yes	1	0.0%	0	10	10	88	88
	Finland	General	Yes	0	0.0%	0	11	11	87	87
	France	General	Yes	9	0.4%	0	10	10	88	88
	Georgia	General	Yes	0	0.0%	0	11	11	86	86
	Germany	General	Yes	41	1.7%	0	10	10	88	88
	Greece	General	Yes	4	0.2%	0	12	12	86	86
	Guatemala	General	Yes	0	0.0%	0	11	11	87	87
	Hong Kong	General	Yes	4	0.2%	0	11	11	87	87
	Iceland	General	Yes	0	0.0%	0	12	12	85	85
	India	General	Yes	0	0.0%	0	6	6	93	93
	Indonesia	General	Yes	24	1.0%	0	11	11	87	87
	Iran	General	Yes	0	0.0%	0	13	13	85	85
	Iraq	General	Yes	0	0.0%	0	12	12	86	86
	Ireland, Republic of	General	Yes	2	0.1%	0	13	13	85	85
	Israel	General	Yes	1	0.0%	0	10	10	88	88
	Italy	General	Yes	1	0.0%	0	9	9	89	89
	Japan	General	Yes	5	0.2%	0	12	12	86	86
	Jordan	General	Yes	2	0.1%	0	11	11	87	87
	Kuwait	General	Yes	3	0.1%	0	11	11	87	87
	Latvia	General	Yes	0	0.0%	0	10	10	89	89
	Lebanon	General	Yes	0	0.0%	0	10	10	88	88
	Lithuania	General	Yes	1	0.0%	0	9	9	89	89
	Luxembourg	General	Yes	0	0.0%	0	9	9	89	89
	Malaysia	General	Yes	49	2.0%	0	12	12	86	86
	Mexico	General	Yes	0	0.0%	0	11	11	87	87
	Montenegro	General	Yes	0	0.0%	0	9	9	89	89
	Morocco	General	Yes	0	0.0%	0	10	10	89	89
	Netherlands	General	Yes	25	1.0%	0	10	10	88	88
	New Zealand	General	Yes	0	0.0%	0	12	12	86	86
	North Macedonia, Republic of	General	Yes	0	0.0%	0	13	13	84	84
	Norway	General	Yes	0	0.0%	0	11	11	87	87
	Oman	General	Yes	2	0.1%	0	11	11	86	86
	Pakistan	General	Yes	4	0.2%	0	8	8	90	90
	Panama	General	Yes	0	0.0%	0	10	10	88	88
	Paraguay	General	Yes	0	0.0%	0	11	11	87	87
	Peru	General	Yes	2	0.1%	0	11	11	86	86
	Philippines	General	Yes	0	0.0%	0	13	13	85	85
	Poland	General	Yes	13	0.5%	0	9	9	89	89
	Portugal	General	Yes	0	0.0%	0	10	10	88	88
	Puerto Rico	General	Yes	0	0.0%	0	12	12	85	85
	Qatar	General	Yes	4	0.2%	0	12	12	86	86
	Republic of Korea	General	Yes	6	0.3%	0	12	12	86	86
	Romania	General	Yes	1	0.0%	0	9	9	90	90
	Russian Federation	General	Yes	53	2.1%	0	11	11	87	87
	Saudi Arabia	General	Yes	23	0.9%	0	10	10	88	88
	Serbia	General	Yes	0	0.0%	0	9	9	89	89
	Singapore	General	Yes	14	0.6%	0	12	12	86	86
	Slovakia	General	Yes	0	0.0%	0	10	10	89	89
	South Africa	General	Yes	2	0.1%	0	10	10	88	88
	Spain	General	Yes	11	0.4%	0	12	12	86	86
	Sweden	General	Yes	1	0.0%	0	10	10	88	88
	Switzerland	General	Yes	0	0.0%	0	10	10	88	88
	Taiwan	General	Yes	24	0.9%	0	12	12	85	85
	Thailand	General	Yes	18	0.7%	0	11	11	87	87
	Trinidad and Tobago	General	Yes	0	0.0%	0	11	11	87	87
	Tunisia	General	Yes	0	0.0%	0	9	9	89	89
	Turkey	General	Yes	13	0.5%	0	14	14	83	83
	Ukraine	General	Yes	1	0.0%	0	9	9	89	89
	United Arab Emirates	General	Yes	7	0.3%	0	11	11	87	87
	United Kingdom	General	Yes	59	2.4%	0	11	11	86	86
	United States	General	Yes	60	2.4%	0	11	11	87	87
	Uruguay	General	Yes	0	0.0%	0	10	10	88	88
	Vietnam	General	Yes	8	0.3%	0	11	11	87	87

Biodiesel ME Total	Waste pressings from production of vegetable oils	France	General	Yes	0	0.0%	0	12	12	86	86
		Germany	General	Yes	0	0.0%	0	9	9	89	89
		Portugal	General	Yes	0	0.0%	0	12	12	86	86
		Spain	General	Yes	37	1.5%	0	8	8	90	90
	All feedstocks	All countries	All certificates	All counting types	1,199	48.0%	0	11	11	87	87
Bioethanol	Bagasse	Brazil	General	Yes	7	0.3%	0	17	17	79	79
	Barley	Sweden	Relevant Crop	No	0	0.0%	12	33	45	61	46
	Corn	Argentina	Relevant Crop	No	10	0.4%	12	23	35	73	58
		Brazil	Relevant Crop	No	5	0.2%	12	32	44	62	47
		Canada	Relevant Crop	No	6	0.3%	12	31	43	63	49
		France	Relevant Crop	No	6	0.3%	12	15	27	82	68
		Hungary	Relevant Crop	No	10	0.4%	12	25	37	70	56
		Poland	Relevant Crop	No	25	1.0%	12	18	30	78	64
		Romania	Relevant Crop	No	5	0.2%	12	32	44	62	48
		Slovakia	Relevant Crop	No	2	0.1%	12	24	36	72	57
		Spain	Relevant Crop	No	1	0.1%	12	23	35	73	58
		Ukraine	Relevant Crop	No	174	7.0%	12	21	33	75	61
		United Kingdom	Relevant Crop	No	2	0.1%	12	23	35	73	58
		United States	Relevant Crop	No	167	6.7%	12	36	48	57	43
	Ethanol from cleaning/extraction of blood plasma	Germany	General	Yes	5	0.2%	0	23	23	73	73
	Ethanol from extraction from medicinal plants	Germany	General	Yes	1	0.0%	0	25	25	70	70
	Food waste	Finland	General	Yes	2	0.1%	0	9	9	90	90
		France	General	Yes	0	0.0%	0	15	15	82	82
		Germany	General	Yes	8	0.3%	0	29	29	65	65
		Latvia	General	Yes	0	0.0%	0	7	7	92	92
		Poland	General	Yes	15	0.6%	0	22	22	74	74
		Sweden	General	Yes	16	0.6%	0	9	9	89	89
	Starch slurry (regular)	France	Relevant Crop	No	0	0.0%	12	15	27	82	68
	Starch slurry (waste)	Austria	General	Yes	28	1.1%	0	2	2	98	98
		Belgium	General	Yes	12	0.5%	0	18	18	78	78
		France	General	Yes	82	3.3%	0	16	16	81	81
		Hungary	General	Yes	2	0.1%	0	6	6	93	93
		Lithuania	General	Yes	4	0.2%	0	8	8	90	90
		Netherlands	General	Yes	3	0.1%	0	28	28	67	67
		Poland	General	Yes	0	0.0%	0	35	35	58	58
	Straw	Ukraine	General	Yes	1	0.0%	0	14	14	83	83
	Sugar beet	France	Relevant Crop	No	4	0.2%	13	36	49	57	42
		Ukraine	Relevant Crop	No	3	0.1%	13	10	23	88	73
	Sugar beet betaine residue	United Kingdom	General	Yes	48	1.9%	0	14	14	83	83
	Sugar cane	Brazil	Relevant Crop	No	39	1.6%	13	23	36	72	57
		Costa Rica	Relevant Crop	No	0	0.0%	13	15	28	82	66
		Guatemala	Relevant Crop	No	0	0.0%	13	12	25	86	70
		Peru	Relevant Crop	No	3	0.1%	13	13	26	85	69
	Wheat	Czech Republic	Relevant Crop	No	0	0.0%	12	31	43	64	49
		France	Relevant Crop	No	14	0.6%	12	26	38	69	54
		Germany	Relevant Crop	No	3	0.1%	12	29	41	65	51
		Hungary	Relevant Crop	No	1	0.0%	12	26	38	69	55
		Lithuania	Relevant Crop	No	11	0.4%	12	23	35	73	58
		Poland	Relevant Crop	No	0	0.0%	12	22	34	74	59
		Romania	Relevant Crop	No	0	0.0%	12	34	46	59	45
		Slovakia	Relevant Crop	No	0	0.0%	12	28	40	67	52
		Spain	Relevant Crop	No	2	0.1%	12	23	35	73	58
		Sweden	Relevant Crop	No	6	0.3%	12	35	47	58	44
		United Kingdom	Relevant Crop	No	53	2.1%	12	19	31	77	63
	All feedstocks	All countries	All certificates	All counting types	789	31.6%	8	20	28	76	67
Biomethane (compressed)	Brown grease	Netherlands	General	Yes	2	0.1%	0	8	8	90	90
	Crude glycerine	Germany	General	Yes	0	0.0%	0	21	21	75	75
		Netherlands	General	Yes	0	0.0%	0	12	12	85	85
		United Kingdom	General	Yes	0	0.0%	0	19	19	77	77
	Draff	United Kingdom	General	No	0	0.0%	0	17	17	80	80
	Dry manure	Germany	General	Yes	0	0.0%	0	5	5	94	94
	Food waste	Austria	General	Yes	2	0.1%	0	11	11	86	86
		Germany	General	Yes	0	0.0%	0	6	6	93	93
		Netherlands	General	Yes	0	0.0%	0	13	13	84	84

		Spain	General	Yes	0	0.0%	0	8	8	91	91
		Sweden	General	Yes	12	0.5%	0	10	10	88	88
		United Kingdom	General	Yes	10	0.4%	0	23	23	73	73
Glycerol		United Kingdom	General	No	0	0.0%	0	32	32	62	62
Municipal grass cuttings		Sweden	General	Yes	1	0.0%	0	8	8	91	91
Organic municipal solid waste		Netherlands	General	Yes	1	0.0%	0	8	8	90	90
		Spain	General	Yes	11	0.4%	0	11	11	87	87
Pot Ale		United Kingdom	General	Yes	0	0.0%	0	17	17	79	79
Pot Ale Syrup		United Kingdom	General	No	0	0.0%	0	17	17	80	80
Rye silage		United Kingdom	Relevant Crop	No	0	0.0%	12	33	45	61	47
Sewage sludge		Germany	General	Yes	1	0.0%	0	9	9	89	89
		Netherlands	General	Yes	0	0.0%	0	21	21	75	75
		Spain	General	Yes	0	0.0%	0	8	8	90	90
		Sweden	General	Yes	9	0.4%	0	9	9	89	89
Sewage system FOG		Netherlands	General	Yes	0	0.0%	0	22	22	74	74
Spent wheat grains		United Kingdom	General	No	0	0.0%	0	18	18	79	79
Straw		Germany	General	Yes	1	0.0%	0	3	3	96	96
		Poland	General	Yes	2	0.1%	0	3	3	96	96
Sugar beet tops, tails, chips & process water		Sweden	General	Yes	1	0.0%	0	6	6	93	93
Waste pressings from production of vegetable oils		Spain	General	Yes	0	0.0%	0	11	11	87	87
		Sweden	General	Yes	0	0.0%	0	7	7	92	92
		Germany	General	Yes	1	0.1%	0	8	8	90	90
Wet manure		Austria	General	Yes	0	0.0%	0	18	18	79	79
		Slovakia	General	Yes	0	0.0%	0	33	33	61	61
		Sweden	General	Yes	1	0.0%	0	19	19	77	77
Biomethane (compressed) Total	All feedstocks	All countries	All certificates	All counting types	56	2.3%	0	13	13	84	84
Biomethane (liquified)	Brown grease	Netherlands	General	Yes	1	0.1%	0	15	15	82	82
	Corn	Germany	Relevant Crop	No	3	0.1%	12	33	45	61	46
	Crude glycerine	Germany	General	Yes	0	0.0%	0	27	27	68	68
		Netherlands	General	Yes	1	0.0%	0	14	14	83	83
	Dry manure	Austria	General	Yes	0	0.0%	0	8	8	90	90
		Germany	General	Yes	4	0.2%	0	20	20	76	76
	Food waste	Austria	General	Yes	1	0.0%	0	8	8	90	90
		Czech Republic	General	Yes	1	0.1%	0	23	23	73	73
		Germany	General	Yes	2	0.1%	0	16	16	81	81
		Netherlands	General	Yes	3	0.1%	0	23	23	73	73
		Sweden	General	Yes	2	0.1%	0	16	16	81	81
		United Kingdom	General	Yes	12	0.5%	0	32	32	62	62
	Municipal grass cuttings	Czech Republic	General	Yes	0	0.0%	0	23	23	73	73
		Germany	General	Yes	0	0.0%	0	30	30	65	65
		Sweden	General	Yes	0	0.0%	0	14	14	83	83
	Nut shells	Netherlands	General	Yes	1	0.1%	0	24	24	71	71
	Organic municipal solid waste	Czech Republic	General	Yes	0	0.0%	0	23	23	73	73
		Germany	General	Yes	5	0.2%	0	30	30	65	65
		Netherlands	General	Yes	4	0.2%	0	25	25	70	70
		Spain	General	Yes	1	0.0%	0	20	20	77	77
	Sewage sludge	Belgium	General	Yes	0	0.0%	0	29	29	65	65
		Czech Republic	General	Yes	0	0.0%	0	23	23	73	73
		Germany	General	Yes	0	0.0%	0	16	16	81	81
		Netherlands	General	Yes	0	0.0%	0	26	26	69	69
	Sewage system FOG	Czech Republic	General	Yes	0	0.0%	0	23	23	73	73
		Netherlands	General	Yes	1	0.0%	0	19	19	78	78
	Straw	Germany	General	Yes	5	0.2%	0	22	22	74	74
		Poland	General	Yes	1	0.0%	0	22	22	74	74
	Sugar beet tops, tails, chips & process water	Germany	General	Yes	1	0.0%	0	19	19	77	77
		Hungary	General	Yes	1	0.0%	0	15	15	82	82
		Sweden	General	Yes	0	0.0%	0	15	15	82	82
	Waste slurry from the distillation of grain mixturee	Germany	General	Yes	4	0.2%	0	14	14	83	83
	Wet manure	Austria	General	Yes	0	0.0%	0	8	8	90	90
		Denmark	General	Yes	1	0.0%	0	24	24	71	71
		Germany	General	Yes	0	0.0%	0	25	25	70	70
Biomethane (liquified) Total	All feedstocks	All countries	All certificates	All counting types	56	2.2%	0	22	23	73	73
Biopropane	Food waste	Poland	General	Yes	0	0.0%	0	13	13	84	84
	Palm	Indonesia	Relevant Crop	No	33	1.3%	55	26	81	68	3

	Malaysia	Relevant Crop	No	7	0.3%	55	19	74	78	12
Palm fatty acid distillate	Indonesia	Relevant Crop	No	1	0.0%	55	5	60	94	28
Used cooking oil	Albania	General	Yes	0	0.0%	0	8	8	90	90
	Argentina	General	Yes	0	0.0%	0	8	8	91	91
	Australia	General	Yes	0	0.0%	0	8	8	91	91
	Belgium	General	Yes	2	0.1%	0	6	6	92	92
	Cambodia	General	Yes	0	0.0%	0	16	16	81	81
	Canada	General	Yes	0	0.0%	0	8	8	90	90
	Chile	General	Yes	0	0.0%	0	10	10	88	88
	China	General	Yes	3	0.1%	0	9	9	89	89
	Colombia	General	Yes	0	0.0%	0	8	8	91	91
	Denmark	General	Yes	0	0.0%	0	8	8	90	90
	Ecuador	General	Yes	0	0.0%	0	10	10	88	88
	Egypt	General	Yes	0	0.0%	0	8	8	90	90
	Estonia	General	Yes	0	0.0%	0	13	13	84	84
	Finland	General	Yes	0	0.0%	0	11	11	87	87
	France	General	Yes	0	0.0%	0	7	7	92	92
	Georgia	General	Yes	0	0.0%	0	9	9	90	90
	Germany	General	Yes	0	0.0%	0	8	8	90	90
	Hong Kong	General	Yes	0	0.0%	0	7	7	92	92
	Iceland	General	Yes	0	0.0%	0	9	9	90	90
	India	General	Yes	0	0.0%	0	8	8	90	90
	Indonesia	General	Yes	2	0.1%	0	8	8	91	91
	Iraq	General	Yes	0	0.0%	0	8	8	91	91
	Ireland, Republic of	General	Yes	0	0.0%	0	7	7	91	91
	Italy	General	Yes	0	0.0%	0	11	11	87	87
	Japan	General	Yes	0	0.0%	0	8	8	90	90
	Jordan	General	Yes	0	0.0%	0	8	8	91	91
	Kuwait	General	Yes	0	0.0%	0	9	9	90	90
	Lithuania	General	Yes	0	0.0%	0	9	9	89	89
	Luxembourg	General	Yes	0	0.0%	0	7	7	92	92
	Malaysia	General	Yes	5	0.2%	0	8	8	91	91
	Mexico	General	Yes	0	0.0%	0	8	8	90	90
	Netherlands	General	Yes	1	0.0%	0	8	8	91	91
	Norway	General	Yes	0	0.0%	0	11	11	87	87
	Peru	General	Yes	0	0.0%	0	6	6	93	93
	Qatar	General	Yes	0	0.0%	0	8	8	90	90
	Republic of Korea	General	Yes	0	0.0%	0	8	8	90	90
	Russian Federation	General	Yes	0	0.0%	0	17	17	80	80
	Saudi Arabia	General	Yes	1	0.0%	0	10	10	88	88
	Singapore	General	Yes	0	0.0%	0	8	8	90	90
	South Africa	General	Yes	0	0.0%	0	8	8	90	90
	Spain	General	Yes	2	0.1%	0	8	8	90	90
	Sweden	General	Yes	0	0.0%	0	10	10	88	88
	Taiwan	General	Yes	0	0.0%	0	7	7	92	92
	Thailand	General	Yes	0	0.0%	0	8	8	90	90
	United Arab Emirates	General	Yes	0	0.0%	0	8	8	90	90
United Kingdom	General	Yes	3	0.1%	0	8	8	91	91	
United States	General	Yes	0	0.0%	0	9	9	89	89	
Uruguay	General	Yes	0	0.0%	0	8	8	91	91	
Vietnam	General	Yes	0	0.0%	0	8	8	90	90	
All feedstocks	All countries	All certificates	All counting types	63	2.5%	5	10	15	88	82
End of life tyres (renewable component)	Poland	Development Fuel	Yes	2	0.1%	0	18	18	79	79
Food waste	United States	Development Fuel	Yes	2	0.1%	0	31	31	63	63
Organic municipal solid waste	United States	Development Fuel	Yes	8	0.3%	0	27	27	68	68
Sewage sludge	United States	Development Fuel	Yes	3	0.1%	0	28	28	67	67
All feedstocks	All countries	All certificates	All counting types	14	0.6%	0	20	20	76	76
End of life tyres (renewable component)	Poland	Development Fuel	Yes	1	0.0%	0	18	18	79	79
Food waste	Poland	Development Fuel	Yes	2	0.1%	0	23	23	72	72
Organic municipal solid waste	United States	Development Fuel	Yes	7	0.3%	0	27	27	68	68
All feedstocks	All countries	All certificates	All counting types	10	0.4%	0	22	22	74	74
Brown grease	United States	General	Yes	0	0.0%	0	32	32	62	62
Food waste	United Kingdom	General	Yes	0	0.0%	0	5	5	94	94

Used cooking oil	Albania	General	Yes	0	0.0%	0	8	8	90	90	
	Argentina	General	Yes	0	0.0%	0	8	8	91	91	
	Australia	General	Yes	0	0.0%	0	8	8	90	90	
	Canada	General	Yes	0	0.0%	0	8	8	90	90	
	Chile	General	Yes	0	0.0%	0	8	8	90	90	
	China	General	Yes	1	0.1%	0	8	8	90	90	
	Colombia	General	Yes	0	0.0%	0	7	7	91	91	
	Denmark	General	Yes	0	0.0%	0	8	8	90	90	
	Egypt	General	Yes	0	0.0%	0	8	8	91	91	
	Georgia	General	Yes	0	0.0%	0	9	9	90	90	
	Germany	General	Yes	0	0.0%	0	8	8	90	90	
	Hong Kong	General	Yes	0	0.0%	0	7	7	92	92	
	Iceland	General	Yes	0	0.0%	0	9	9	90	90	
	India	General	Yes	0	0.0%	0	9	9	90	90	
	Indonesia	General	Yes	2	0.1%	0	8	8	90	90	
	Iraq	General	Yes	0	0.0%	0	8	8	91	91	
	Ireland, Republic of	General	Yes	0	0.0%	0	8	8	90	90	
	Japan	General	Yes	0	0.0%	0	9	9	90	90	
	Jordan	General	Yes	0	0.0%	0	8	8	90	90	
	Kuwait	General	Yes	0	0.0%	0	8	8	90	90	
	Malaysia	General	Yes	7	0.3%	0	8	8	91	91	
	Mexico	General	Yes	0	0.0%	0	8	8	90	90	
	Netherlands	General	Yes	1	0.1%	0	8	8	90	90	
	Qatar	General	Yes	0	0.0%	0	8	8	90	90	
	Republic of Korea	General	Yes	0	0.0%	0	8	8	90	90	
	Saudi Arabia	General	Yes	0	0.0%	0	8	8	90	90	
	Singapore	General	Yes	1	0.0%	0	8	8	90	90	
	South Africa	General	Yes	0	0.0%	0	7	7	91	91	
	Spain	General	Yes	0	0.0%	0	8	8	90	90	
	Taiwan	General	Yes	0	0.0%	0	7	7	92	92	
	Thailand	General	Yes	0	0.0%	0	8	8	90	90	
	United Arab Emirates	General	Yes	0	0.0%	0	8	8	90	90	
	United Kingdom	General	Yes	6	0.2%	0	8	8	91	91	
	United States	General	Yes	0	0.0%	0	9	9	89	89	
	Uruguay	General	Yes	0	0.0%	0	7	7	91	91	
	Vietnam	General	Yes	0	0.0%	0	8	8	90	90	
	All feedstocks	All countries	All certificates	All counting types	21	0.9%	0	8	8	90	90
	Spent bleaching earth	Malaysia	General	Yes	3	0.1%	0	19	19	78	78
	Used cooking oil	Argentina	General	Yes	0	0.0%	0	10	10	88	88
		Australia	General	Yes	2	0.1%	0	7	7	92	92
Belgium		General	Yes	3	0.1%	0	6	6	93	93	
Cambodia		General	Yes	0	0.0%	0	17	17	80	80	
Chile		General	Yes	0	0.0%	0	10	10	88	88	
China		General	Yes	24	0.9%	0	9	9	90	90	
Czech Republic		General	Yes	0	0.0%	0	9	9	90	90	
Denmark		General	Yes	0	0.0%	0	9	9	89	89	
Ecuador		General	Yes	0	0.0%	0	8	8	90	90	
Egypt		General	Yes	0	0.0%	0	8	8	90	90	
Finland		General	Yes	0	0.0%	0	9	9	89	89	
France		General	Yes	1	0.0%	0	7	7	92	92	
Germany		General	Yes	0	0.0%	0	6	6	93	93	
Indonesia		General	Yes	5	0.2%	0	8	8	90	90	
Italy		General	Yes	4	0.2%	0	13	13	84	84	
Japan		General	Yes	0	0.0%	0	9	9	90	90	
Jordan		General	Yes	0	0.0%	0	9	9	90	90	
Latvia		General	Yes	0	0.0%	0	9	9	89	89	
Lithuania		General	Yes	0	0.0%	0	9	9	89	89	
Luxembourg		General	Yes	0	0.0%	0	7	7	92	92	
Malaysia		General	Yes	4	0.2%	0	7	7	92	92	
Netherlands		General	Yes	2	0.1%	0	6	6	93	93	
New Zealand		General	Yes	1	0.1%	0	8	8	91	91	
Norway		General	Yes	0	0.0%	0	10	10	88	88	
Portugal		General	Yes	0	0.0%	0	7	7	92	92	
Republic of Korea		General	Yes	1	0.0%	0	6	6	93	93	
Russian Federation		General	Yes	1	0.0%	0	14	14	84	84	

		Singapore	General	Yes	0	0.0%	0	6	6	93	93
		South Africa	General	Yes	0	0.0%	0	9	9	89	89
		Spain	General	Yes	1	0.0%	0	9	9	90	90
		Sweden	General	Yes	0	0.0%	0	10	10	88	88
		Taiwan	General	Yes	0	0.0%	0	9	9	90	90
		United Kingdom	General	Yes	4	0.2%	0	5	5	93	93
		United States	General	Yes	1	0.0%	0	8	8	91	91
		Venezuela	General	Yes	3	0.1%	0	14	14	83	83
		Vietnam	General	Yes	1	0.0%	0	6	6	92	92
HVO Total	All feedstocks	All countries	All certificates	All counting types	63	2.5%	0	9	9	89	89
Hydrogen	End of life tyres (renewable component)	United Kingdom	Development Fuel	Yes	0	0.0%	0	1	1	99	99
	Wind power	United Kingdom	Development Fuel	Yes	0	0.0%	0	0	0	100	100
Hydrogen Total	All feedstocks	All countries	All certificates	All counting types	0	0.0%	0	1	1	99	99
Methanol (bio)	Dry manure	United States	General	Yes	0	0.0%	0	34	34	59	59
	Food waste	United States	General	Yes	4	0.2%	0	36	36	57	57
	Organic municipal solid waste	United Kingdom	General	Yes	0	0.0%	0	33	33	61	61
		United States	General	Yes	24	1.0%	0	35	35	59	59
	Sewage sludge	United States	General	Yes	8	0.3%	0	36	36	57	57
	Starch slurry (waste)	United States	General	Yes	7	0.3%	0	37	37	56	56
	Waste pressings from production of vegetable oils	United States	General	Yes	9	0.4%	0	36	36	57	57
Methanol (bio) Total	All feedstocks	All countries	All certificates	All counting types	53	2.1%	0	35	35	58	58
MTBE (renewable portion)	Organic municipal solid waste	United States	General	Yes	1	0.0%	0	35	35	58	58
MTBE (renewable portion) Total	All feedstocks	All countries	All certificates	All counting types	1	0.0%	0	35	35	58	58
Off road biodiesel	Brown grease	China	General	Yes	1	0.0%	0	13	13	84	84
	Crude glycerine	United Kingdom	General	Yes	1	0.0%	0	14	14	83	83
	Forestry residues	France	General	Yes	0	0.0%	0	6	6	93	93
	Oilseed rape	France	Relevant Crop	No	0	0.0%	55	37	92	56	-10
		Germany	Relevant Crop	No	0	0.0%	55	36	91	57	-8
		Lithuania	Relevant Crop	No	0	0.0%	55	38	93	55	-11
		Ukraine	Relevant Crop	No	0	0.0%	55	38	93	55	-11
	Tallow - category 1	Ireland, Republic of	General	Yes	3	0.1%	0	14	14	83	83
		Spain	General	Yes	0	0.0%	0	14	14	83	83
		United Kingdom	General	Yes	2	0.1%	0	14	14	83	83
	Used cooking oil	Albania	General	Yes	0	0.0%	0	12	12	86	86
		Argentina	General	Yes	1	0.0%	0	11	11	86	86
		Australia	General	Yes	3	0.1%	0	11	11	87	87
		Belgium	General	Yes	0	0.0%	0	11	11	87	87
		Bulgaria	General	Yes	0	0.0%	0	13	13	85	85
		Cambodia	General	Yes	0	0.0%	0	12	12	86	86
		Canada	General	Yes	1	0.1%	0	12	12	86	86
		Chile	General	Yes	1	0.0%	0	11	11	87	87
		China	General	Yes	34	1.4%	0	10	10	88	88
		Colombia	General	Yes	0	0.0%	0	13	13	84	84
		Cyprus	General	Yes	0	0.0%	0	11	11	87	87
		Czech Republic	General	Yes	0	0.0%	0	11	11	87	87
		Denmark	General	Yes	0	0.0%	0	12	12	86	86
		Egypt	General	Yes	1	0.1%	0	13	13	84	84
		Finland	General	Yes	0	0.0%	0	8	8	90	90
		France	General	Yes	0	0.0%	0	12	12	86	86
		Germany	General	Yes	1	0.1%	0	10	10	88	88
		Greece	General	Yes	0	0.0%	0	12	12	86	86
		Hong Kong	General	Yes	0	0.0%	0	11	11	87	87
		Indonesia	General	Yes	1	0.0%	0	13	13	84	84
		Iran	General	Yes	0	0.0%	0	13	13	84	84
		Iraq	General	Yes	0	0.0%	0	12	12	85	85
		Ireland, Republic of	General	Yes	1	0.0%	0	14	14	84	84
		Israel	General	Yes	0	0.0%	0	14	14	83	83
		Japan	General	Yes	1	0.0%	0	13	13	85	85
		Jordan	General	Yes	0	0.0%	0	11	11	87	87
		Kuwait	General	Yes	0	0.0%	0	11	11	87	87
		Latvia	General	Yes	0	0.0%	0	10	10	88	88

		Lebanon	General	Yes	0	0.0%	0	8	8	90	90
		Luxembourg	General	Yes	0	0.0%	0	9	9	89	89
		Malaysia	General	Yes	4	0.2%	0	12	12	85	85
		Morocco	General	Yes	0	0.0%	0	9	9	89	89
		Netherlands	General	Yes	1	0.1%	0	10	10	88	88
		New Zealand	General	Yes	0	0.0%	0	13	13	84	84
		North Macedonia, Republic of	General	Yes	0	0.0%	0	13	13	84	84
		Oman	General	Yes	0	0.0%	0	13	13	85	85
		Pakistan	General	Yes	0	0.0%	0	8	8	90	90
		Peru	General	Yes	0	0.0%	0	12	12	85	85
		Poland	General	Yes	1	0.0%	0	9	9	90	90
		Portugal	General	Yes	0	0.0%	0	8	8	90	90
		Qatar	General	Yes	1	0.0%	0	13	13	85	85
		Republic of Korea	General	Yes	1	0.1%	0	12	12	85	85
		Russian Federation	General	Yes	3	0.1%	0	11	11	87	87
		Saudi Arabia	General	Yes	2	0.1%	0	11	11	87	87
		Singapore	General	Yes	2	0.1%	0	12	12	85	85
		Slovakia	General	Yes	0	0.0%	0	10	10	88	88
		South Africa	General	Yes	0	0.0%	0	8	8	90	90
		Spain	General	Yes	1	0.0%	0	11	11	87	87
		Sweden	General	Yes	0	0.0%	0	8	8	90	90
		Taiwan	General	Yes	1	0.0%	0	14	14	83	83
		Thailand	General	Yes	1	0.0%	0	11	11	87	87
		Turkey	General	Yes	1	0.0%	0	14	14	83	83
		Ukraine	General	Yes	0	0.0%	0	8	8	90	90
		United Arab Emirates	General	Yes	0	0.0%	0	10	10	88	88
		United Kingdom	General	Yes	9	0.4%	0	13	13	85	85
		United States	General	Yes	4	0.1%	0	11	11	87	87
		Vietnam	General	Yes	2	0.1%	0	12	12	86	86
	Waste pressings from production of vegetable oils	Spain	General	Yes	1	0.0%	0	8	8	90	90
Off road biodiesel Total	All feedstocks	All countries	All certificates	All counting types	91	3.6%	1	12	14	85	84
Pure bio oil	Salmon oil - cat 1&2	Norway	General	Yes	2	0.1%	0	1	1	99	99
	Used cooking oil	United Kingdom	General	Yes	0	0.0%	0	2	2	98	98
Pure bio oil Total	All feedstocks	All countries	All certificates	All counting types	3	0.1%	0	1	1	99	99
Grand Total	All feedstocks	All countries	All certificates	All counting types	2,501	100.0%	2	13	15	84	82

Legend: "-" is a true zero; "0" is a value less than half the displayed unit (1 million litres equivalent).

¹ This table contains data on RTFCs issued to renewable fuel certified as sustainable.

² From 15th April 2018 new RTFC categories are introduced (general, relevant crop and development fuel). These replace the GHG emission categories used in 2017/18 and in previous reports.

³ Development Fuels RTFC was introduced in 2019. Until we have at least 3 companies supplying development fuels no statistics will be published due to the commercially sensitive nature of the data.

⁴ Renewable gases (such as biomethane and biopropane) are reported in kg but are converted to equivalent litres using standard multiplication factors (1.9 and 1.75 respectively) as stated in the RTFO Order.

⁵ "HVO" (hydrotreated vegetable oil) was named "Biodiesel HVO" in previous reports

⁶ Greenhouse gas savings are calculated compared to the equivalent fossil fuel that would have been used instead, using a value of 94 gCO₂/MJ for the fossil equivalent.

For further details alongside these tables, see the:

- [Notes and definitions](#)
- [Report](#)
- [Guidance on the RTFO](#)

Source: DfT
Last updated: 04 August 2022
Next update: November 2022
Telephone: 0207 944 4847
Email: Environment.stats@df.gov.uk

The figures in this table are outside the scope of National Statistics.

Department for Transport statistics

[RTFO Statistics \(https://www.gov.uk/government/collections/renewable-fuel-statistics\)](https://www.gov.uk/government/collections/renewable-fuel-statistics)

Table RF 0106

Voluntary scheme data of renewable transport fuel¹: United Kingdom, 2021 (fifth provisional)

Provisional data

Data is for information received by the DfT as of 04/07/2022 and is provisional. The final report for 2021 will be published in Nov 2022.

Scheme 1	Scheme 2	Fuel Type	Feedstock	Country
Biomass Biofuels voluntary scheme	No scheme	Bioethanol	Food waste	France
			Starch slurry (waste)	France
Biomass Biofuels voluntary scheme Total	All schemes	All fuel types	All feedstocks	All countries
Bonsucro EU (formerly BSI)	No scheme	Bioethanol	Sugar cane	Brazil
Bonsucro EU (formerly BSI) Total	All schemes	All fuel types	All feedstocks	All countries
International Sustainability & Carbon Cert.	No scheme	Avtur (renewable)	Tallow - category 2 or uncategorised Used cooking oil	Finland Belgium China Finland Hong Kong Indonesia Malaysia Netherlands Saudi Arabia Spain United Arab Emirates United Kingdom United States
		Bio Petrol	Used cooking oil	Albania Australia Canada Chile China Denmark Egypt Georgia Germany Iceland Indonesia Iraq Ireland, Republic of Jordan Kuwait Malaysia Mexico Netherlands Qatar Republic of Korea Saudi Arabia Singapore Spain Thailand United Arab Emirates United Kingdom United States Vietnam
		Biodiesel ME	Brown grease	Australia China Russian Federation Spain United Kingdom
			Crude glycerine	France Portugal Spain
			Food waste	Indonesia Ireland, Republic of Spain United Kingdom
			Soapstock acid oil contaminated with sulphur	Argentina Australia Belgium Colombia France Germany Honduras Italy Morocco Netherlands Poland Portugal Slovakia Spain United Kingdom
			Soy	Argentina
			Tallow - category 1	Belgium

	France
	Hungary
	Ireland, Republic of
	Spain
	United Kingdom
Used cooking oil	Albania
	Argentina
	Aruba
	Australia
	Austria
	Bahrain
	Belarus
	Belgium
	Bolivia
	Brazil
	Bulgaria
	Cambodia
	Canada
	Chile
	China
	Colombia
	Croatia
	Cyprus
	Czech Republic
	Denmark
	Ecuador
	Egypt
	Estonia
	Finland
	France
	Georgia
	Germany
	Greece
	Guatemala
	Hong Kong
	Iceland
	India
	Indonesia
	Iran
	Iraq
	Ireland, Republic of
	Israel
	Italy
	Japan
	Jordan
	Kuwait
	Latvia
	Lebanon
	Lithuania
	Luxembourg
	Malaysia
	Mexico
	Montenegro
	Morocco
	Netherlands
	New Zealand
	North Macedonia, Repu
	Norway
	Oman
	Pakistan
	Panama
	Paraguay
	Peru
	Philippines
	Poland
	Portugal
	Puerto Rico
	Qatar
	Republic of Korea
	Romania
	Russian Federation
	Saudi Arabia
	Serbia
	Singapore
	Slovakia
	South Africa
	Spain
	Sweden
	Switzerland
	Taiwan
	Thailand
	Trinidad and Tobago
	Tunisia
	Turkey
	Ukraine
	United Arab Emirates
	United Kingdom
	United States

		Uruguay
		Vietnam
	Waste pressings from production of vegetable oils	France
		Germany
		Portugal
		Spain
Bioethanol	Bagasse	Brazil
	Barley	Sweden
	Corn	Argentina
		Brazil
		Canada
		France
		Hungary
		Poland
		Romania
		Slovakia
		Spain
		Ukraine
		United Kingdom
		United States
	Ethanol from cleaning/extraction of blood plasma	Germany
	Ethanol from extraction from medicinal plants	Germany
	Food waste	Finland
		France
		Germany
		Latvia
		Poland
		Sweden
	Starch slurry (regular)	France
	Starch slurry (waste)	Austria
		Belgium
		France
		Hungary
		Lithuania
		Netherlands
	Straw	Ukraine
	Sugar beet	France
		Ukraine
	Sugar beet betaine residue	United Kingdom
	Sugar cane	Brazil
		Costa Rica
		Guatemala
		Peru
	Wheat	Czech Republic
		France
		Germany
		Hungary
		Lithuania
		Romania
		Slovakia
		Spain
		Sweden
		United Kingdom
Biomethane (compressed)	Brown grease	Netherlands
	Crude glycerine	Germany
		Netherlands
		United Kingdom
	Draff	United Kingdom
	Food waste	Austria
		Netherlands
		Spain
		Sweden
	Municipal grass cuttings	Sweden
	Organic municipal solid waste	Netherlands
		Spain
	Pot Ale	United Kingdom
	Pot Ale Syrup	United Kingdom
	Sewage sludge	Germany
		Netherlands
		Spain
		Sweden
	Sewage system FOG	Netherlands
	Spent wheat grains	United Kingdom
	Sugar beet tops, tails, chips & process water	Sweden
	Waste pressings from production of vegetable oils	Spain
		Sweden
	Waste slurry from the distillation of grain mixture	Germany
	Wet manure	Austria
Biomethane (liquified)	Brown grease	Netherlands
	Corn	Germany
	Crude glycerine	Germany
		Netherlands
	Dry manure	Austria
	Food waste	Germany
		Austria
		Czech Republic
		Germany
		Netherlands

		Sweden
	Municipal grass cuttings	Czech Republic
		Germany
		Sweden
	Organic municipal solid waste	Czech Republic
		Germany
		Netherlands
		Spain
	Sewage sludge	Belgium
		Czech Republic
		Germany
		Netherlands
	Sewage system FOG	Czech Republic
		Netherlands
	Straw	Germany
		Poland
	Sugar beet tops, tails, chips & process water	Sweden
	Waste slurry from the distillation of grain mixture	Germany
	Wet manure	Austria
Biopropane		Denmark
		Germany
	Palm	Indonesia
	Palm	Malaysia
	Palm fatty acid distillate	Indonesia
	Used cooking oil	Belgium
	Used cooking oil	Cambodia
	Used cooking oil	Chile
	Used cooking oil	China
	Used cooking oil	Denmark
	Used cooking oil	Ecuador
	Used cooking oil	Estonia
	Used cooking oil	Finland
	Used cooking oil	France
	Used cooking oil	Hong Kong
	Used cooking oil	Indonesia
	Used cooking oil	Ireland, Republic of
	Used cooking oil	Italy
	Used cooking oil	Jordan
	Used cooking oil	Lithuania
	Used cooking oil	Luxembourg
	Used cooking oil	Malaysia
	Used cooking oil	Netherlands
	Used cooking oil	Norway
	Used cooking oil	Peru
	Used cooking oil	Russian Federation
	Used cooking oil	Saudi Arabia
	Used cooking oil	Spain
	Used cooking oil	Sweden
	Used cooking oil	United Arab Emirates
	Used cooking oil	United Kingdom
Development diesel	Organic municipal solid waste	United States
Development petrol	Food waste	Poland
	Organic municipal solid waste	United States
Diesel (origin Bio)	Used cooking oil	Albania
		Australia
		Canada
		Chile
		China
		Denmark
		Egypt
		Georgia
		Germany
		Iceland
		Indonesia
		Iraq
		Ireland, Republic of
		Jordan
		Kuwait
		Malaysia
		Mexico
		Netherlands
		Qatar
		Republic of Korea
		Saudi Arabia
		Singapore
		Spain
		Thailand
		United Arab Emirates
		United Kingdom
		United States
		Vietnam
HVO	Spent bleaching earth	Malaysia
	Used cooking oil	Argentina
		Australia
		Belgium
		Cambodia
		Chile
		China

		Czech Republic
		Denmark
		Ecuador
		Egypt
		Finland
		France
		Germany
		Indonesia
		Italy
		Japan
		Jordan
		Latvia
		Lithuania
		Luxembourg
		Malaysia
		Netherlands
		New Zealand
		Norway
		Portugal
		Republic of Korea
		Russian Federation
		Singapore
		South Africa
		Spain
		Sweden
		Taiwan
		United Kingdom
		United States
		Venezuela
		Vietnam
Methanol (bio)	Dry manure	United States
	Food waste	United States
	Organic municipal solid waste	United Kingdom
		United States
	Sewage sludge	United States
	Starch slurry (waste)	United States
	Waste pressings from production of vegetable oils	United States
MTBE (renewable portion)	Organic municipal solid waste	United States
Off road biodiesel	Brown grease	China
	Forestry residues	France
	Oilseed rape	France
		Germany
		Lithuania
		Ukraine
	Tallow - category 1	Ireland, Republic of
		Spain
		United Kingdom
	Used cooking oil	Albania
		Argentina
		Australia
		Belgium
		Bulgaria
		Cambodia
		Canada
		Chile
		China
		Colombia
		Cyprus
		Czech Republic
		Denmark
		Egypt
		Finland
		France
		Germany
		Greece
		Hong Kong
		Indonesia
		Iran
		Iraq
		Ireland, Republic of
		Israel
		Japan
		Jordan
		Kuwait
		Latvia
		Lebanon
		Luxembourg
		Malaysia
		Morocco
		Netherlands
		New Zealand
		North Macedonia, Repi
		Oman
		Pakistan
		Peru
		Poland
		Portugal
		Qatar

				Republic of Korea Russian Federation Saudi Arabia Singapore Slovakia South Africa Spain Sweden Taiwan Thailand Turkey Ukraine United Arab Emirates United Kingdom United States Vietnam
			Waste pressings from production of vegetable oils	Spain
		Pure bio oil	Used cooking oil	United Kingdom
	REDcert EU	Biomethane (compressed)	Waste slurry from the distillation of grain mixture	Germany
		Biomethane (liquified)	Dry manure	Germany
			Straw	Germany
			Waste slurry from the distillation of grain mixture	Germany
			Wet manure	Germany
International Sustainability & Carbon Cert. Total	All schemes	All fuel types	All feedstocks	All countries
No scheme	No scheme	Bio-Synthetic Natural Gas	End of life tyres (renewable component)	United Kingdom
		Bio Petrol	Food waste	United Kingdom
			Used cooking oil	Argentina Australia India Indonesia Japan Jordan Netherlands Thailand Vietnam
		Biodiesel ME	Brown grease	South Africa United Kingdom United States
			Crude glycerine	United Kingdom
			Food waste	Indonesia Ireland, Republic of United Kingdom
			Sewage system FOG	United Kingdom
			Soapstock acid oil contaminated with sulphur	Argentina
			Used cooking oil	United Kingdom
		Biomethane (compressed)	Food waste	United States
			Glycerol	United Kingdom
			Rye silage	United Kingdom
		Biomethane (liquified)	Food waste	United Kingdom
		Development diesel	End of life tyres (renewable component)	Poland
			Food waste	United States
			Sewage sludge	United States
		Development petrol	End of life tyres (renewable component)	Poland
		Diesel (origin Bio)	Brown grease	United States
			Food waste	United Kingdom
			Used cooking oil	Argentina Australia India Indonesia Japan Jordan Netherlands Thailand Vietnam
		Hydrogen	End of life tyres (renewable component)	United Kingdom
			Wind power	United Kingdom
		Off road biodiesel	Crude glycerine	United Kingdom
			Used cooking oil	United Kingdom
		Pure bio oil	Salmon oil - cat 1&2	Norway
No scheme Total	All schemes	All fuel types	All feedstocks	All countries
NTA 8080	No scheme	Biomethane (liquified)	Food waste	Netherlands
			Nut shells	Netherlands
			Organic municipal solid waste	Netherlands
NTA 8080 Total	All schemes	All fuel types	All feedstocks	All countries
REDcert EU	No scheme	Biobutane	Food waste	Poland
		Biodiesel ME	Palm oil mill effluent	Guatemala
			Soapstock acid oil contaminated with sulphur	Argentina Belgium Germany Italy Morocco Portugal Spain
		Bioethanol	Corn	Hungary

REDcert EU Total				Poland				
				Ethanol from cleaning/extraction of blood plasma	Germany			
				Food waste	Germany			
					Poland			
				Starch slurry (waste)	Austria			
					Poland			
				Sugar cane	Peru			
				Wheat	Germany			
					Poland			
				Biomethane (compressed)	Dry manure	Germany		
					Food waste	Germany		
						Sweden		
					Sewage sludge	Germany		
					Straw	Germany		
						Poland		
				Biomethane (liquified)	Wet manure	Slovakia		
						Sweden		
					Dry manure	Germany		
					Food waste	Germany		
					Organic municipal solid waste	Germany		
					Straw	Germany		
					Poland			
				Biopropane	Sugar beet tops, tails, chips & process water	Germany		
						Hungary		
					Wet manure	Germany		
				Development petrol	Food waste	Poland		
		Poland						
REDcert EU Total	All schemes	All fuel types	All feedstocks	All countries				
Roundtable on Sustainable Biomaterials EU RED	No scheme	Bio Petrol	Used cooking oil	Argentina				
				Australia				
				Canada				
				China				
				Colombia				
				Egypt				
				Germany				
				Hong Kong				
				India				
				Indonesia				
				Iraq				
				Japan				
				Jordan				
				Malaysia				
				Netherlands				
				Qatar				
				Saudi Arabia				
				Singapore				
				South Africa				
				Taiwan				
				Thailand				
				United Arab Emirates				
				United Kingdom				
				Uruguay				
				Vietnam				
						Biopropane	Used cooking oil	Albania
								Argentina
								Australia
								Canada
								Chile
								China
								Colombia
								Denmark
								Egypt
				Georgia				
				Germany				
				Hong Kong				
				Iceland				
				India				
				Indonesia				
				Iraq				
				Ireland, Republic of				
				Japan				
				Jordan				
				Kuwait				
				Malaysia				
				Mexico				
				Netherlands				
				Qatar				
				Republic of Korea				
				Saudi Arabia				
				Singapore				
				South Africa				
				Spain				
				Taiwan				
				Thailand				
				United Arab Emirates				
				United Kingdom				
				United States				

				Uruguay
				Vietnam
	Diesel (origin Bio)	Used cooking oil		Argentina
				Australia
				Canada
				China
				Colombia
				Egypt
				Germany
				Hong Kong
				India
				Indonesia
				Iraq
				Japan
				Jordan
				Malaysia
				Netherlands
				Qatar
				Saudi Arabia
				Singapore
				South Africa
				Taiwan
				Thailand
				United Arab Emirates
				United Kingdom
				Uruguay
				Vietnam
Roundtable on Sustainable Biomaterials EU RED Total	All schemes	All fuel types	All feedstocks	All countries
Grand Total				

Legend: "-" is a true zero; "0" is a value less than half the displayed unit (1 million litres equivalent)

¹ This table contains data on RTFCs issued to renewable fuel certified as sustainable.

² Renewable gases (such as biomethane and biopropane) are reported in kg but are converted to equivalent litres using standard multiplication factors (1.9 and 1.75 respectively) as stated in the RTFO

³ "HVO" (hydrotreated vegetable oil) was named "Biodiesel HVO" in previous reports

For further details alongside these tables, see the

[- Notes and definitions](#)

[- Report](#)

[- Guidance on the RTFO](#)

The figures in this table are outside the scope of National Statistics