

# RTFO Quarterly Report 12: 15 April 2010 - 14 April 2011

Provisional data for the 2010/11 obligation year to date

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## **RTFO Quarterly Report 12: 15 April 2010 - 14 April 2011**

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### **Provisional Data**

**The information contained in this report is provisional and based on unverified claims made by suppliers. It should be viewed as indicative rather than definitive. Verified data is published annually and can be found on the the DfT website, <http://www.dft.gov.uk/statistics/series/biofuels/>. Those using this document should be aware that while in the majority of cases there is little discrepancy between a company's provisional and verified data, in some instances the difference has been significant. For further information on provisional data please see the notes at the end of this report.**

### **Executive Summary**

Under the RTFO, the sustainability targets increase year on year. For year three the data capture target is up 20% to 90% relative to Year Two; the target for GHG savings is up 5% to 50% and the target for fuels meeting an Environmental Standards has increased by 30% to 80%.

This report covers the supply of biofuels under the Renewable Transport Fuel Obligation<sup>1</sup> from 15 April 2010 to 14 April 2011. The headline figures<sup>2</sup> are:

4.3 billion litres of biofuel have been supplied under the RTFO in the first 36 months.

In the twelve months of the 2010/11 obligation period, 1,440 million litres of biofuel have been supplied, which is approximately 3.1% of total road transport fuel reported to the RTFO Administrator against an annual target of 3.5%<sup>3</sup>. More biodiesel (59%) has been supplied than bioethanol (41%). There has also been a small volume of biogas declared to us.

The feedstock is known for 97% of fuel supplied. Both the feedstock and country of origin are known for 97%.

The largest proportion of biofuel came from the feedstock, used cooking oil (428m litres, 30% of total biofuel supplied). The most widely reported feedstock and country of biodiesel was soy from Argentina (180m litres, 21% of biodiesel supplied). The most widely reported feedstock and country of bioethanol was sugarcane from Brazil (119m litres, 20% of bioethanol supplied).

Over the period, 55%<sup>4</sup> of biofuels met an environmental standard, compared to a target of 80%<sup>5</sup>.

The majority of feedstock has been imported; 22% of the biofuel was reported as coming from UK feedstocks.

85% of the fuel reported as coming from UK feedstocks met environmental sustainability standards.

Greenhouse gas savings of 58% were achieved against a Government target<sup>6</sup> of 50%. This figure may not include all emissions from direct land use change and excludes the emissions from indirect land-use changes considered in the 'Gallagher Review'.

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### Notes

1. The RTFO applies to road transport across the whole of the UK. Refiners, importers and any others who supply more than 450,000 litres of relevant hydrocarbon oil for road transport annually to the UK market are obligated by it.

2. Data come from monthly reports submitted by fuel suppliers to the RTFO Administrator. The RTFO Administrator performs checks on the data, which for suppliers of over 450,000 litres of biofuel, are also subject to an annual verification process by independent auditors. The RTFO Administrator will publish a final, fully verified dataset after the end of each obligation year.

Every quarter we publish an extended report that identifies the carbon and sustainability performance of individual companies. These reports are available on our website at: <http://dft.gov.uk/pgr/sustainable/biofuels/data/>

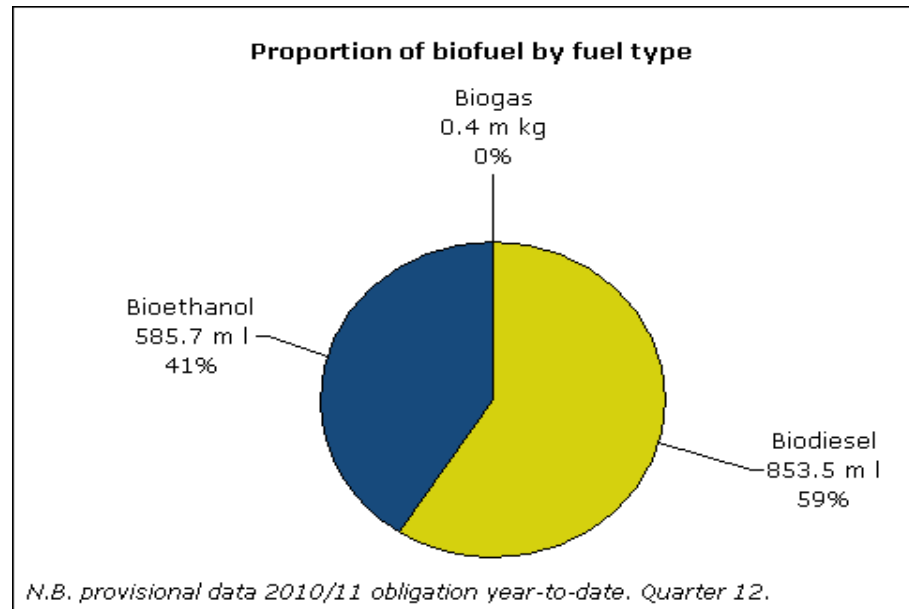
3. Obligated suppliers can meet their volume obligation by surrendering the appropriate number of RTFCs to the RTFO Administrator and/or by paying into a buy-out fund. The RTFCs can be obtained by supplying their own biofuels or by purchasing RTFCs from other biofuel suppliers. A quarter of their obligation can be met by surplus RTFCs from the previous obligation year.

4. Under the RTFO Order, these reports must not contain information from which the volumes of fuel being reported by individual suppliers might be derived. To protect the volumes of individual suppliers in some reports, certain quantities of fuel reported as meeting the Qualifying Standard or RTFO Meta-Standard have been removed from the overall RTFO figures. In this report, all fuel meeting the Qualifying Standard or Meta-Standard has been included in the overall RTFO figures, but some has still been excluded from the reporting by feedstock and country. The figures by country and feedstock do not therefore tally exactly with the overall figures.

5. 80% of feedstocks should meet environmental sustainability standards in the year 2010/11. The ability of suppliers to source certifiably sustainable fuels is currently limited by the lack of operational sustainability standards for several feedstock/country combinations. Certified sustainable feedstock is expected to become increasingly available over time, as feedstock standards develop in response to the demand created by the RTFO and growing concern about the sustainability of agricultural commodities more widely. Suppliers can arrange their own audits against the RTFO Meta-Standard. There is more than enough RSPO certified palm oil to meet the entire UK demand for palm oil biodiesel feedstock.

6. Throughout this report 'Government targets' refers to targets set by the Government in 2007.

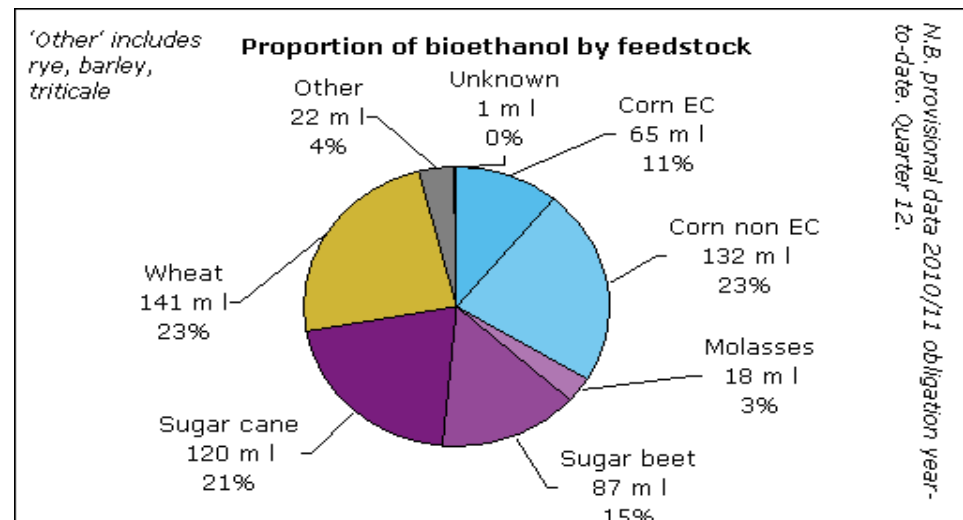
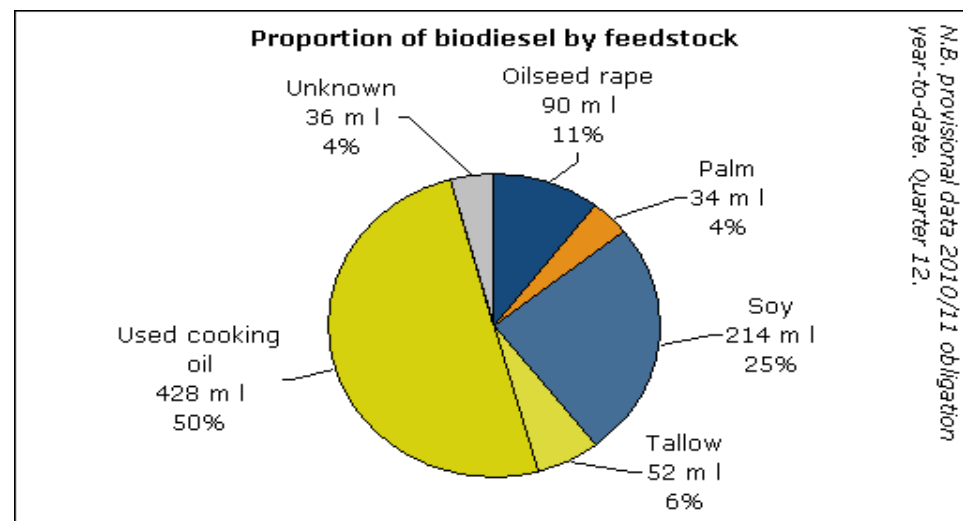
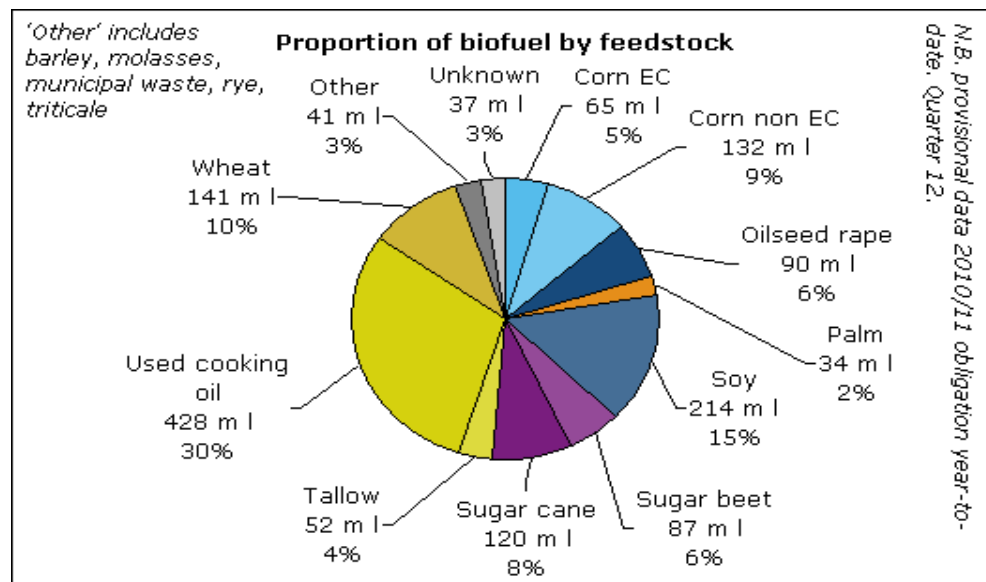
## Volumes and proportions by fuel type



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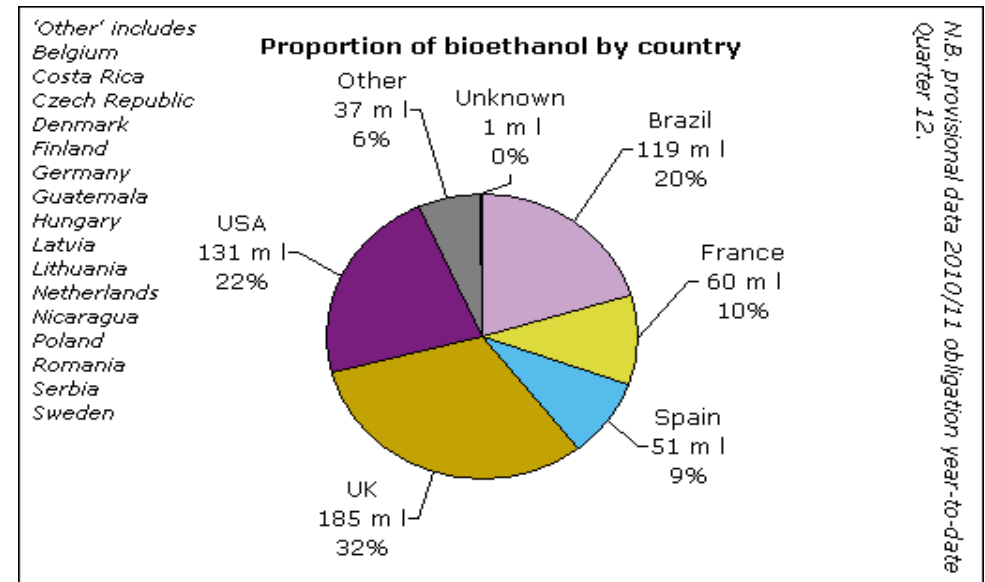
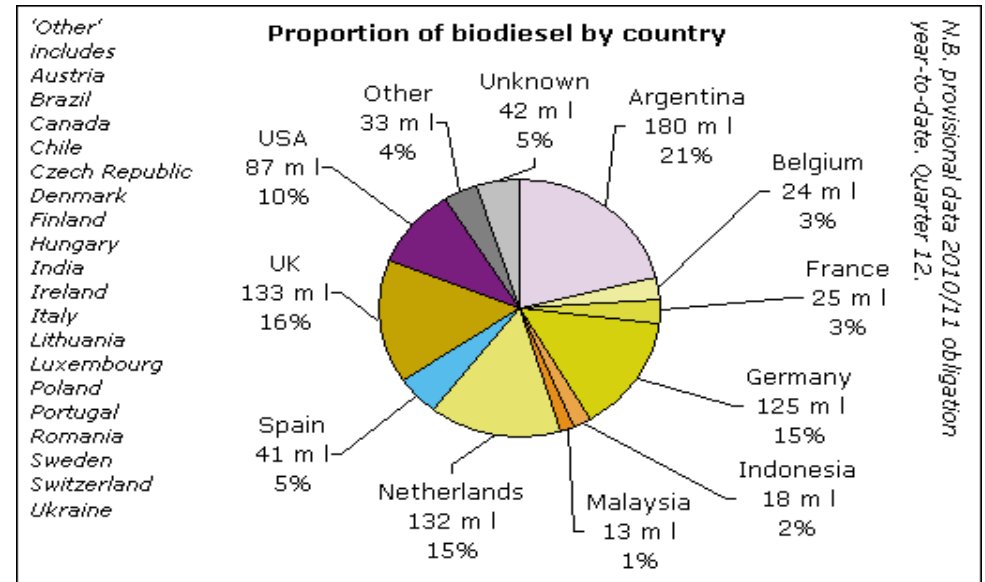
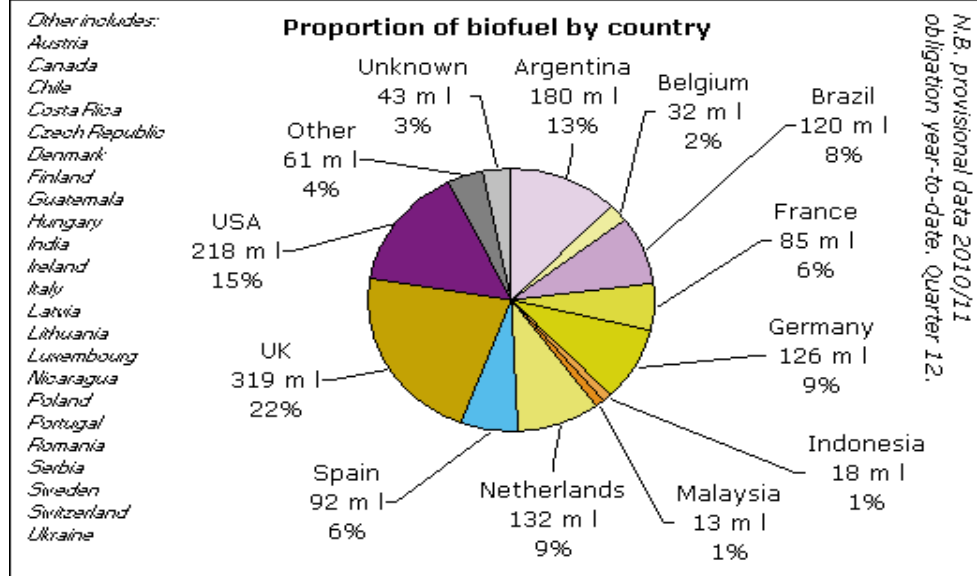
## Proportions by feedstock



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## Proportions by country

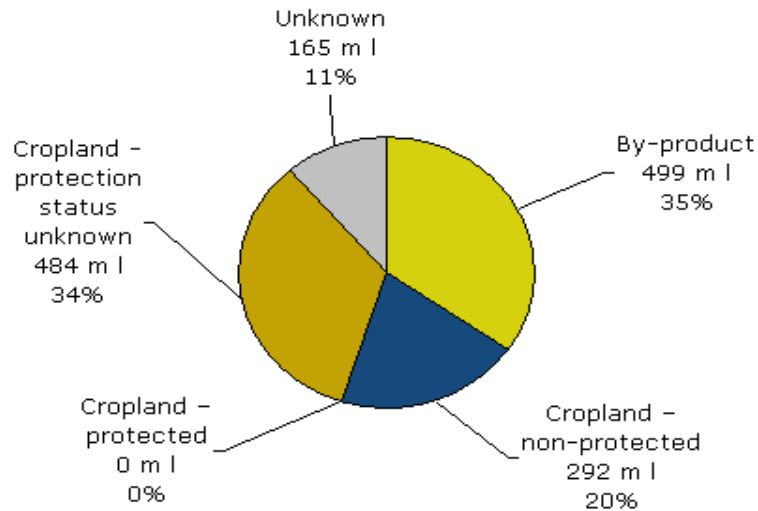


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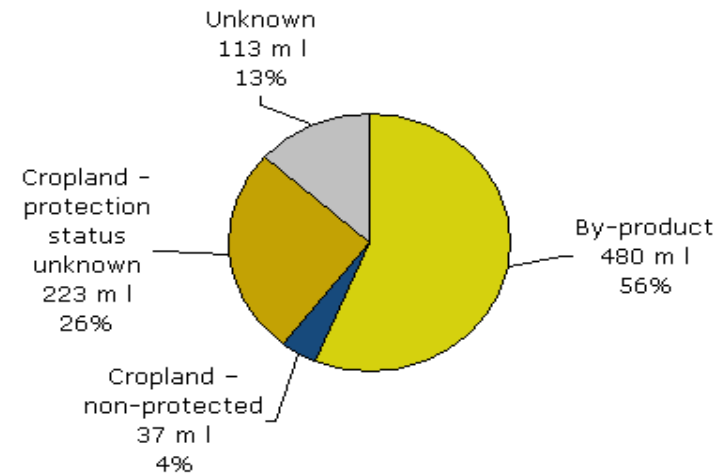
## Proportions by previous land-use

**Proportion of biofuel by previous land-use**



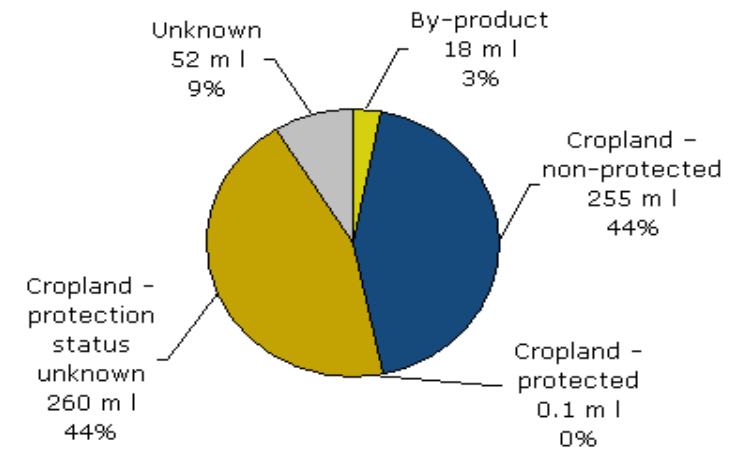
N.B. provisional data 2010/11 obligation year-to-date, Quarter 12.

**Proportion of biodiesel by previous land-use**



N.B. provisional data 2010/11 obligation year-to-date, Quarter 12.

**Proportion of bioethanol by previous land-use**

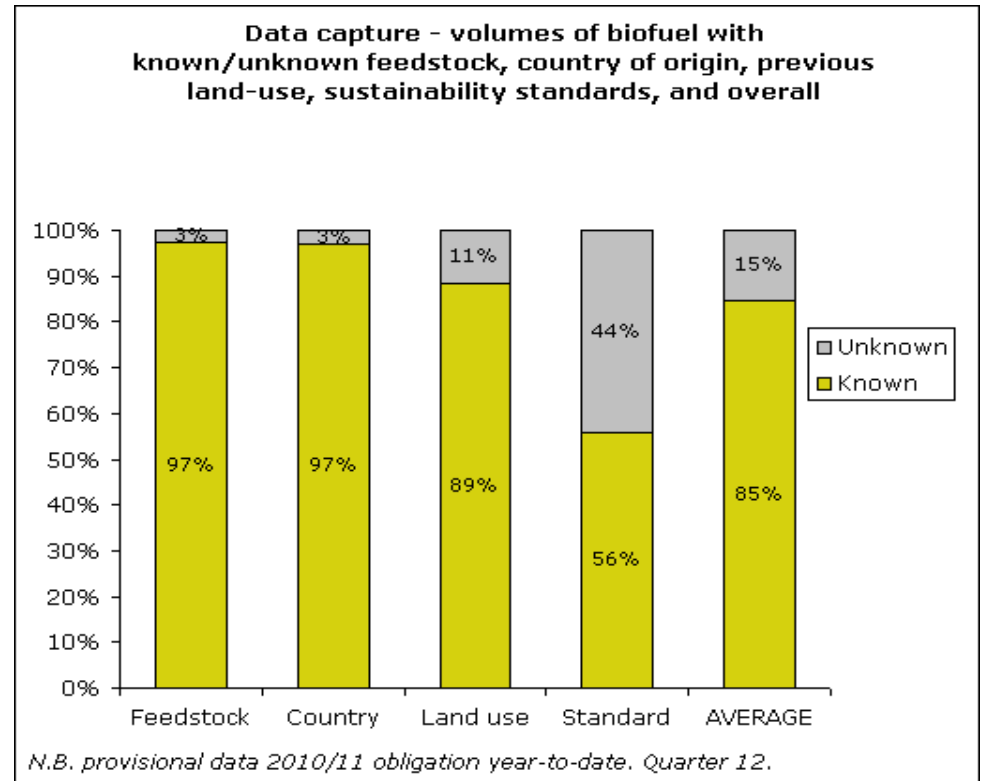
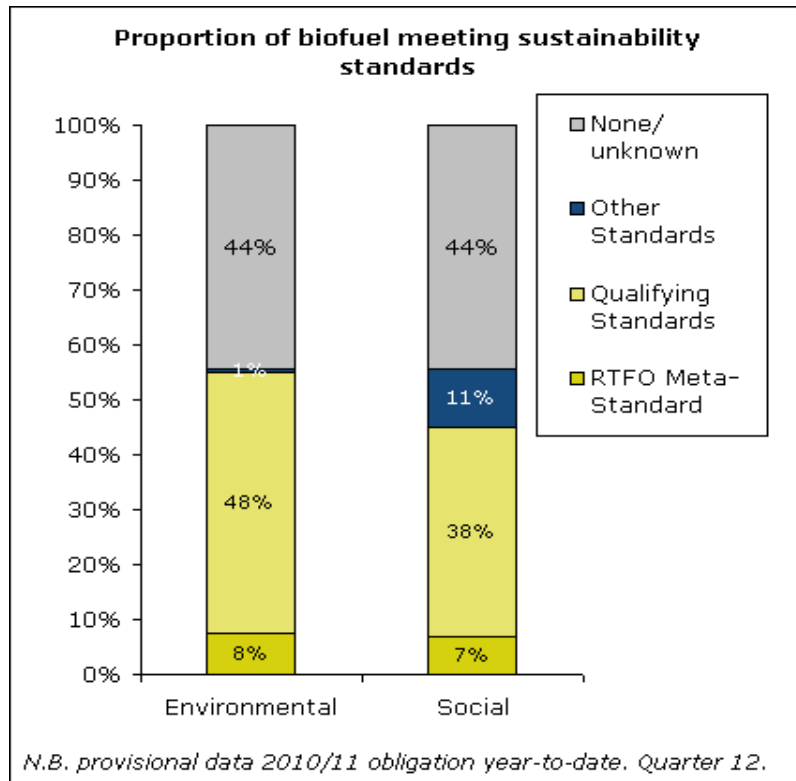


N.B. provisional data 2010/11 obligation year-to-date, Quarter 12.

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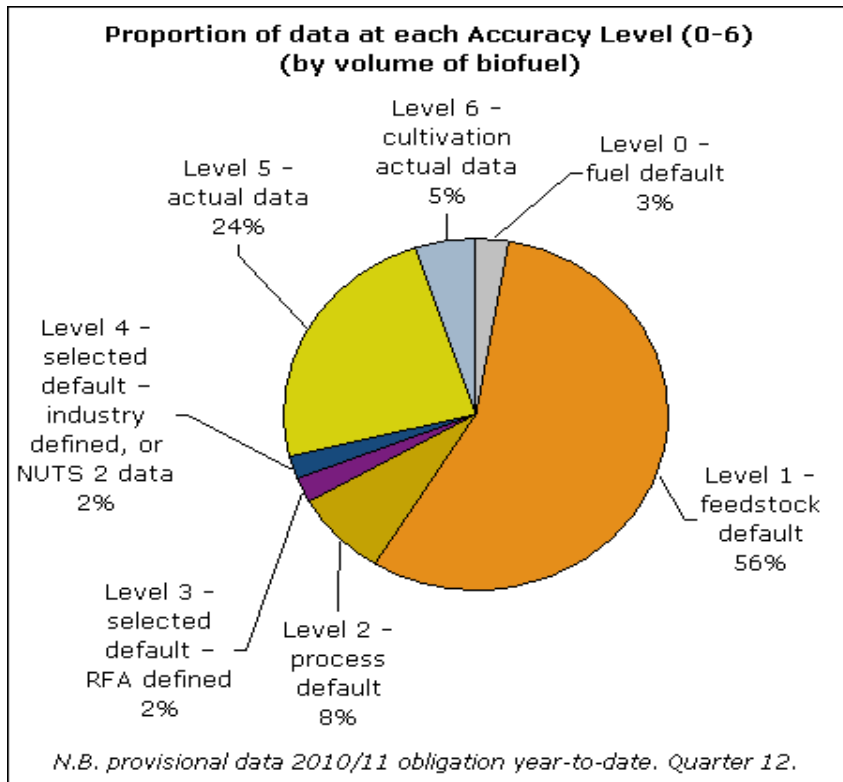
### Sustainability, data-capture and accuracy





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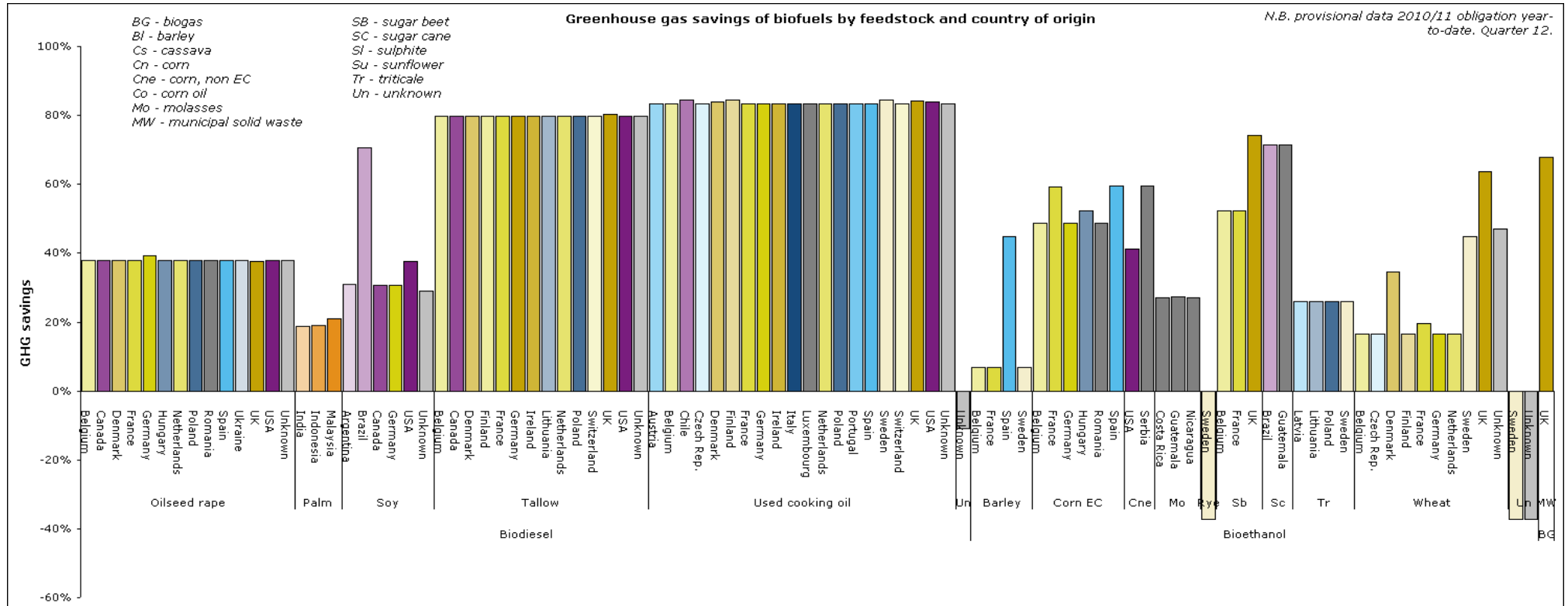
All graphs present provisional data for the 2010/11 obligation year to date



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### Greenhouse gas savings

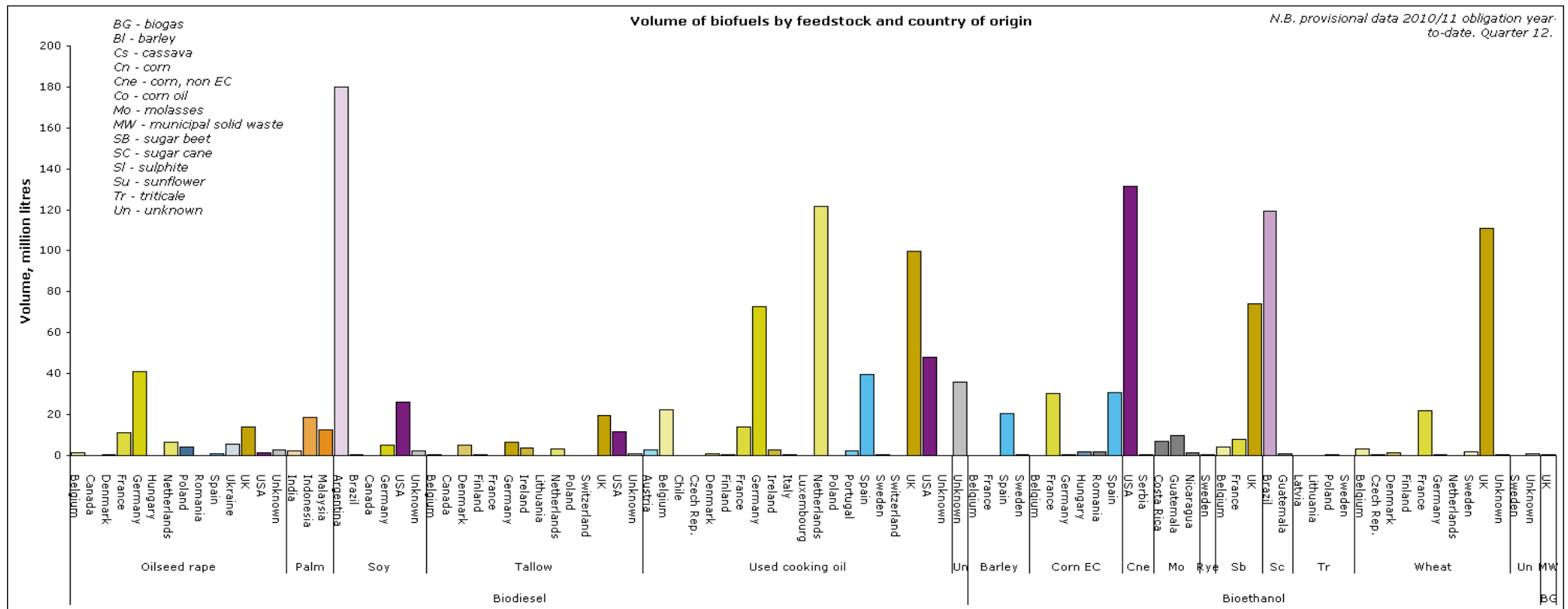


As there was no carbon default for rye, the conservative default for unknown feedstock has been reported. Consequently, negative GHG savings have been reported for this feedstock which may not represent the actual GHG savings.

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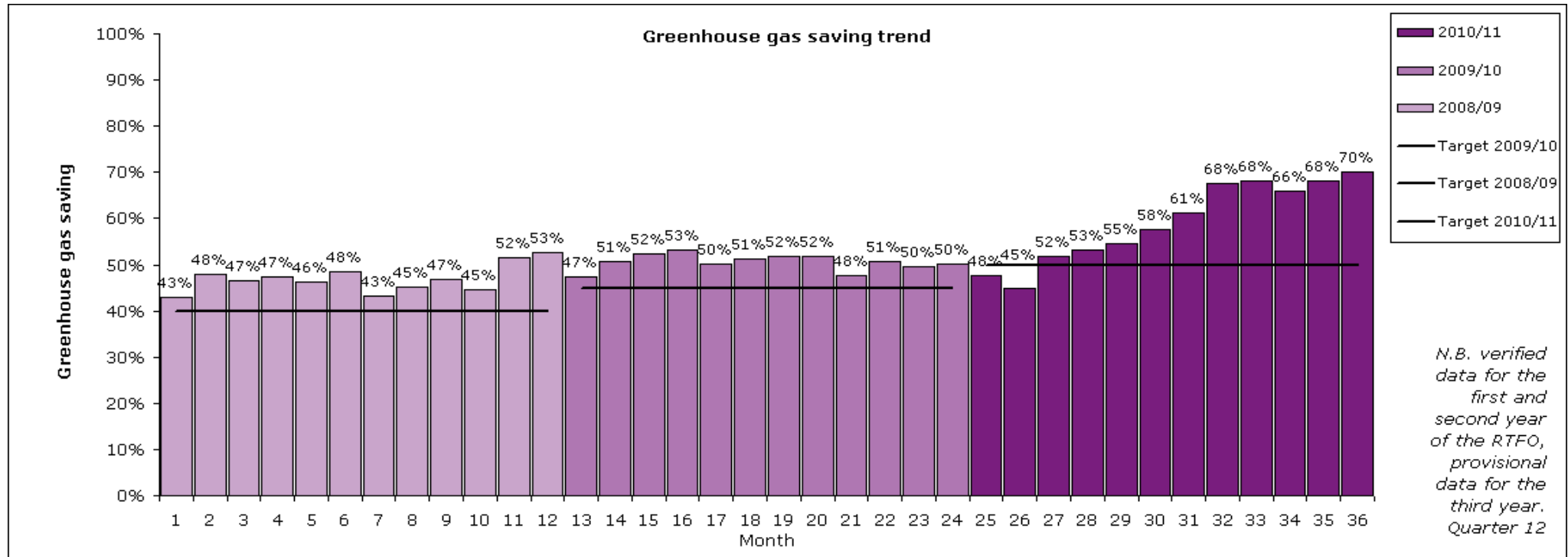
### Volume by feedstock and country



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Trend graphs present verified data for the first year of the RTFO and provisional data for the second and third year to date

### Performance trends against the RTFO's targets

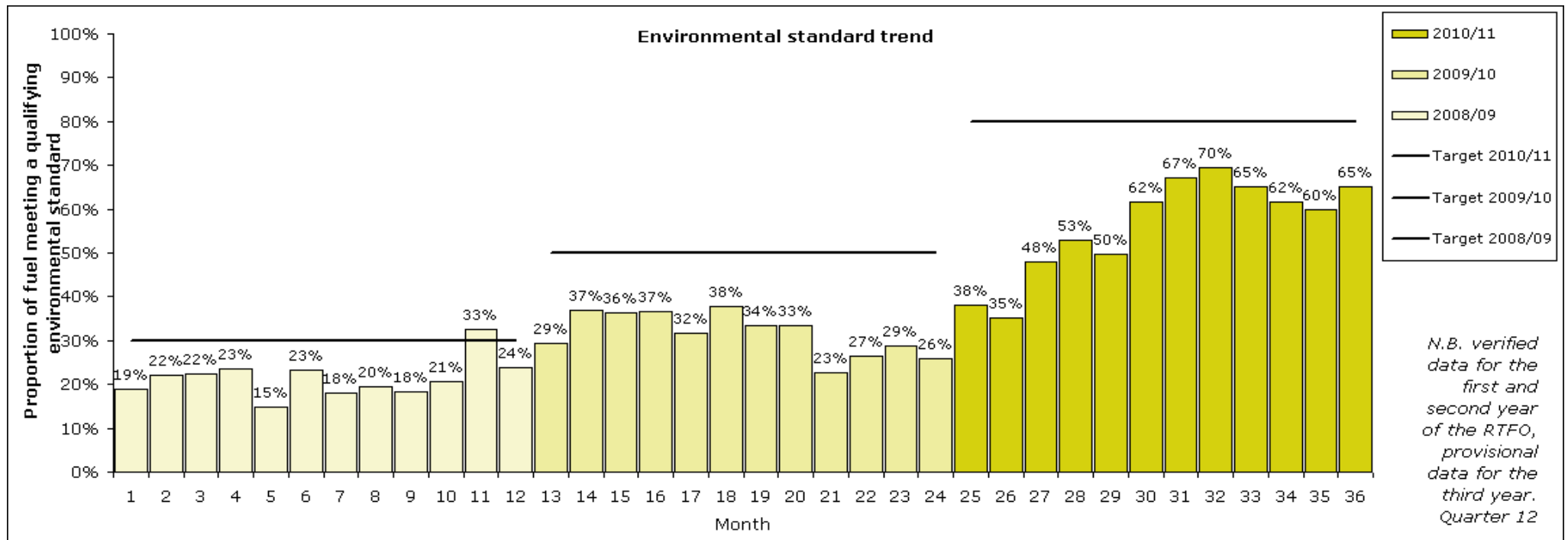


The carbon intensity defaults for biofuels from an unknown country and/or feedstock were set more conservatively from the second reporting year of the RTFO (Month 13) to encourage suppliers to obtain data on the origin of their biofuels. From Year 3 (Month 25) the carbon defaults are based on the feedstocks and biofuel production process (where applicable) in line with the Renewable Energy Directive.

## RTFO Quarterly Report 12: 15 April 2010 - 14 April 2011

Trend graphs present verified data for the first year of the RTFO and provisional data for the second and third year to date

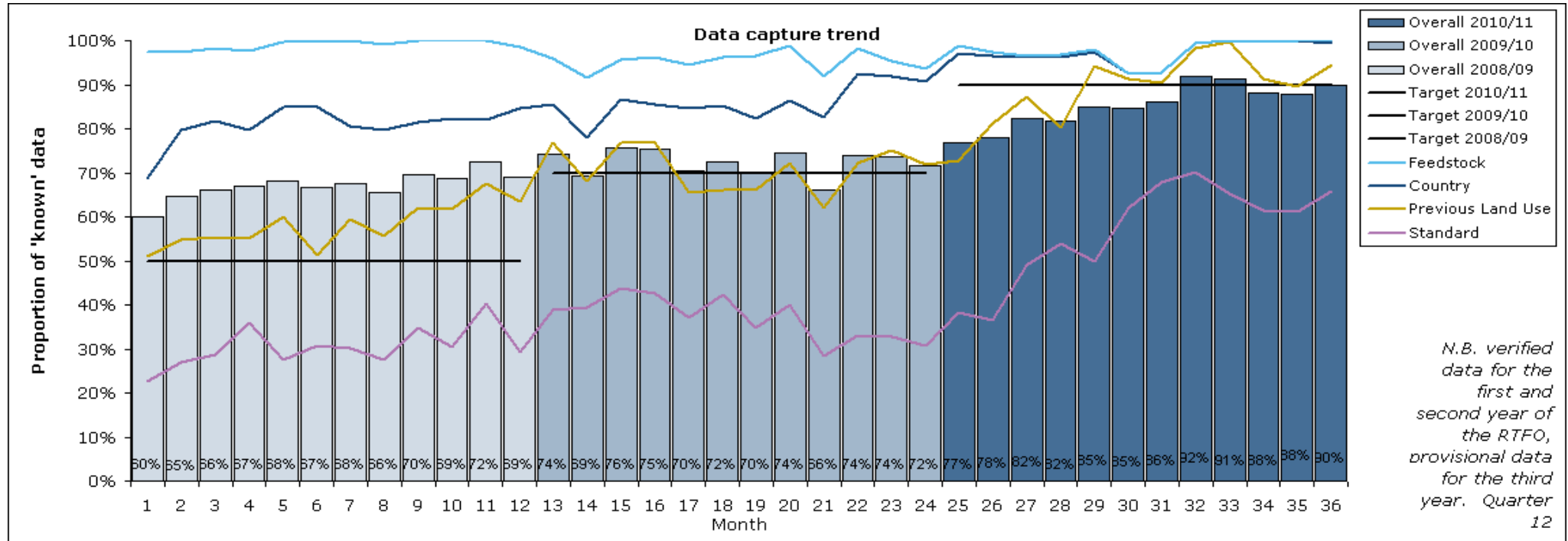
### Performance trends against the RTFO's targets



## RTFO Quarterly Report 12: 15 April 2010 - 14 April 2011

Trend graphs present verified data for the first year of the RTFO and provisional data for the second and third year to date

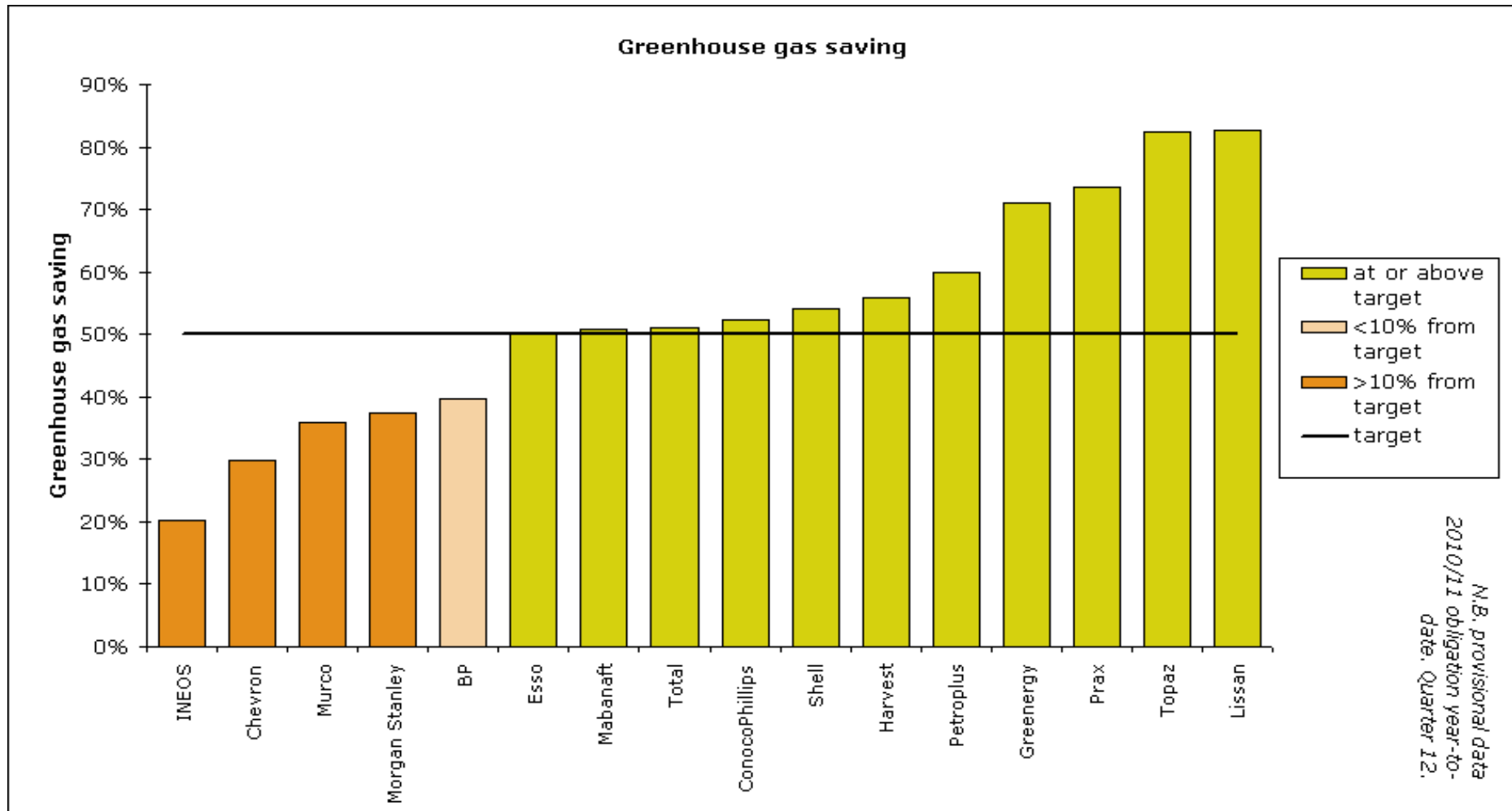
### Performance trends against the RTFO's targets



The data for the first 24 months come from the two verified annual reports. The data from Year 3 are based on the provisional data, at the last date on which certificates were awarded.

Fuel suppliers are encouraged to revise their data where they are able to provide more accurate information later in the year - for instance, adding information if they found out the previous land use of a biofuel plantation, or removing information if they had reason to believe that a sustainability standard might have been incorrectly reported. These data may not therefore correspond exactly to the data in previous RTFO reports. All data from suppliers supplying over 450,000 litres are subject to final verification at the end of the year.

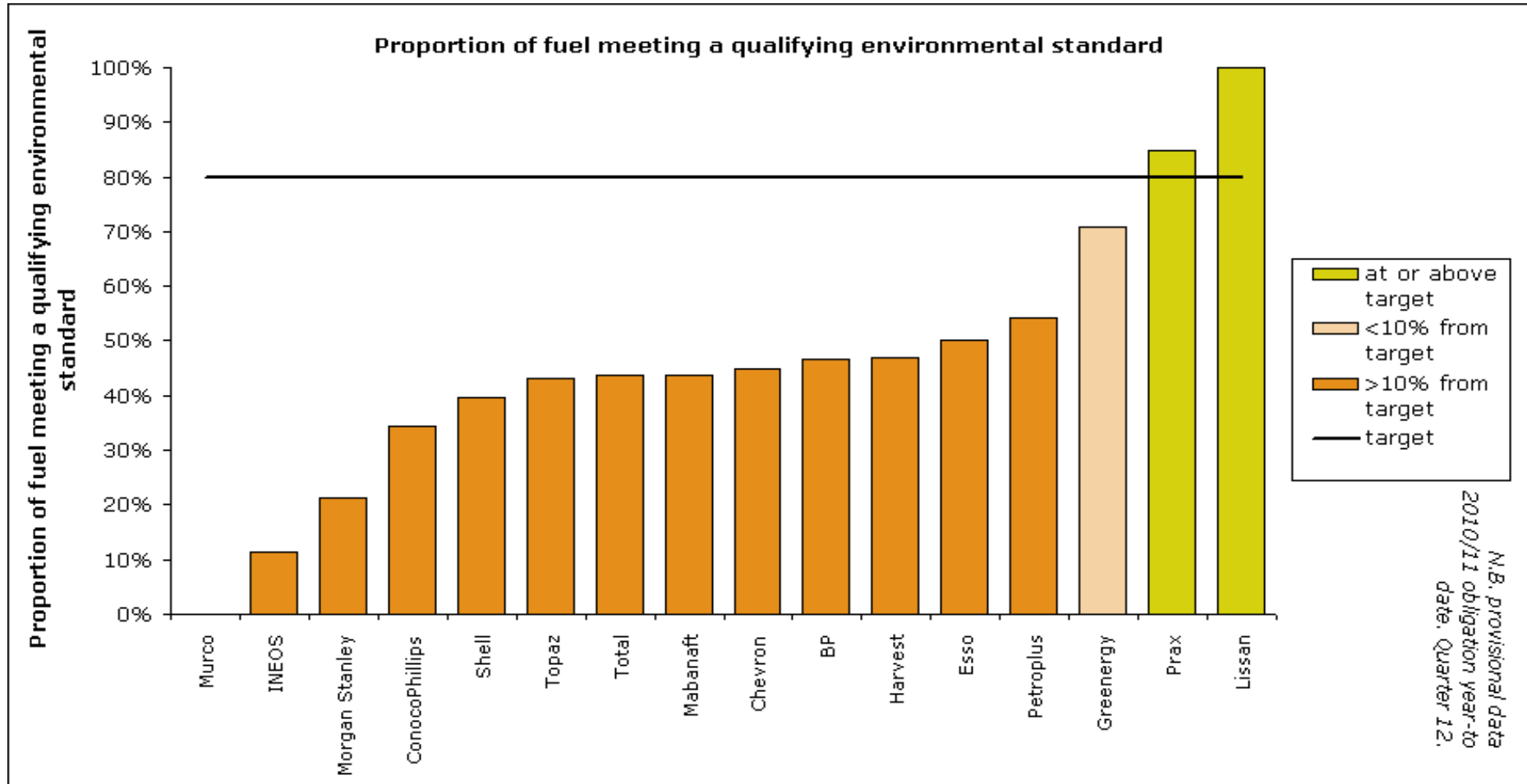
## Obligated company performance against the RTFO's targets



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### Obligated company performance against the RTFO's targets

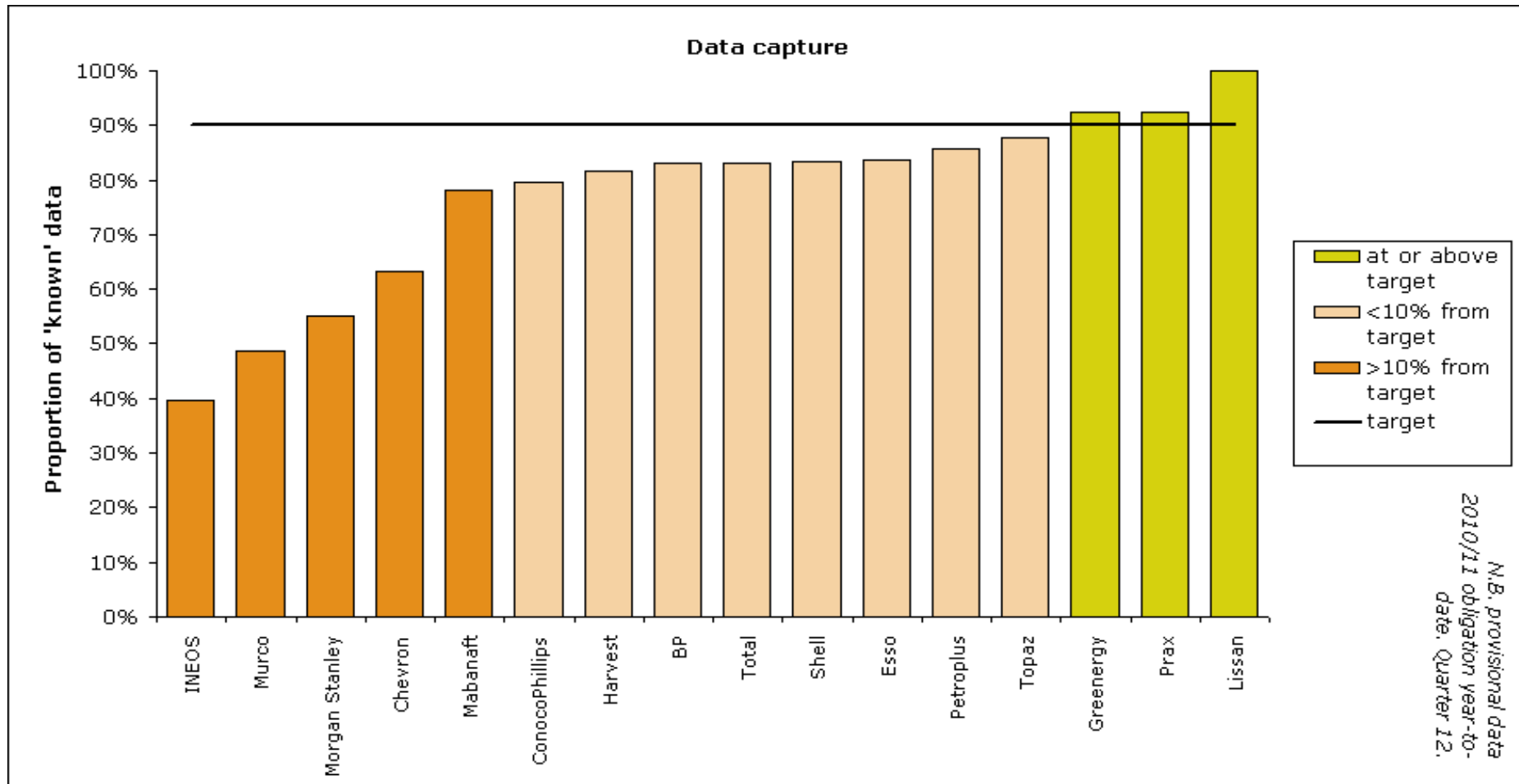




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### Obligated company performance against the RTFO's targets



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**Table 1: Performance of the RTFO against the three carbon and sustainability targets set by the Government in 2007.**

Annual Supplier Target	2010/11 Obligation period		2009/10 Obligation period		2008/09 Obligation period	
	Target	Actual	Target	Actual	Target	Actual
Percentage of feedstock meeting a Qualifying Environmental Standard	80%	<b>55%</b>	50%	<b>31%</b>	30%	<b>20%</b>
Annual GHG saving of fuel supplied	50%	<b>58%</b>	45%	<b>51%</b>	40%	<b>46%</b>
Data reporting of renewable fuel characteristics	90%	<b>85%</b>	70%	<b>72%</b>	50%	<b>64%</b>

**Table 2: Volume of biofuels supplied for road transport under the RTFO.**

	Biofuel type	Volume (millions l) or mass (millions kg) *	Fossil fuel type	Volume, million l **	Biofuels as a proportion of total road transport fuels supplied
Fuel type	Biodiesel	853.5	Diesel	24,957	3.31%
	Bioethanol	585.7	Petrol	19,876	2.86%
	Biogas	0.4			
	<b>Total</b>	<b>1,439.6</b>		<b>44,833</b>	<b>3.11%</b>
	<b>Annual target</b>				<b>3.50%</b>

\* Biodiesel and bioethanol volumes are reported in litres and biogas volumes are reported in kilograms.

\*\* Fossil fuel volumes given are *obligated volumes* and may differ from HMRC totals.

**Table 3: Carbon and sustainability data of biofuels by fuel type.**

		Volume, l or kg	Volume, million l or million kg	Volume, %	Proportion meeting an environmental standard				Proportion meeting a social standard				Carbon intensity, g(CO <sub>2</sub> e)/MJ	Greenhouse gas saving, %	Accuracy level, (0-6)
					RTFO	Qualifying Standards	Other standards	None/ unknown	RTFO	Qualifying Standards	Other standards	None/ unknown			
Fuel type	Biodiesel	853,497,451	853.5	59%	0%	61%	1%	38%	2%	59%	2%	38%	34	59%	1.7
	Bioethanol	585,679,891	585.7	41%	0%	27%	0%	72%	0%	4%	24%	72%	36	57%	3.4
	Biogas	428,207	0.4	0%	0%	100%	0%	0%	0%	100%	0%	0%	27	68%	5.0
	<b>Total</b>	<b>1,439,605,549</b>	<b>1,439.6</b>	<b>100%</b>											
	<b>Mean</b>				<b>0%</b>	<b>47%</b>	<b>1%</b>	<b>52%</b>	<b>1%</b>	<b>36%</b>	<b>11%</b>	<b>52%</b>	<b>35</b>	<b>58%</b>	<b>2.4</b>

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Table 4: Carbon and sustainability data of biodiesel from different feedstocks, countries, and according to the previous land-use.

		Volume, litres	Volume, million litres	Volume, %	Proportion meeting an environmental standard				Proportion meeting a social standard				Carbon intensity, g(CO <sub>2</sub> e)/MJ	Greenhouse gas saving, %	Accuracy level, (0-6)
					RTFO	QS	Other standards	None/ unknown	RTFO	QS	Other standards	None/ unknown			
Feedstock	Oilseed rape	89,659,689	89.7	11%	0%	8%	7%	85%	0%	0%	15%	85%	52	38%	1.5
	Palm	33,546,898	33.5	4%	0%	44%	0%	56%	0%	44%	0%	56%	67	20%	1.5
	Soy	214,206,004	214.2	25%	0%	10%	0%	90%	6%	4%	0%	90%	57	32%	1.5
	Tallow	51,880,942	51.9	6%	0%	100%	0%	0%	0%	100%	0%	0%	17	80%	1.3
	Used cooking oil	428,253,598	428.3	50%	0%	100%	0%	0%	0%	100%	0%	0%	14	84%	2.0
	Unknown	35,950,320	36.0	4%	0%	0%	0%	100%	0%	0%	0%	100%	93	-11%	0.0
	<b>Total Mean</b>	<b>853,497,451</b>	<b>853.5</b>	<b>100%</b>	<b>0%</b>	<b>61%</b>	<b>1%</b>	<b>38%</b>	<b>2%</b>	<b>59%</b>	<b>2%</b>	<b>38%</b>	<b>34</b>	<b>59%</b>	<b>1.7</b>
Country of origin	Argentina	180,086,489	180.1	21%	0%	11%	0%	89%	7%	5%	0%	89%	58	31%	1.3
	Austria	2,811,464	2.8	0%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.2
	Belgium	24,030,061	24.0	3%	0%	94%	0%	6%	0%	94%	0%	6%	16	81%	1.2
	Brazil	642,094	0.6	0%	0%	0%	0%	100%	0%	0%	0%	100%	25	71%	3.7
	Canada	285,855	0.3	0%	0%	16%	0%	84%	0%	16%	0%	84%	50	40%	1.0
	Chile	225,277	0.2	0%	0%	100%	0%	0%	0%	100%	0%	0%	13	84%	5.0
	Czech Republic	113,920	0.1	0%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.0
	Denmark	6,634,298	6.6	1%	0%	92%	0%	8%	0%	92%	0%	8%	19	77%	1.4
	Finland	797,290	0.8	0%	0%	100%	0%	0%	0%	100%	0%	0%	16	81%	2.2
	France	25,184,397	25.2	3%	0%	55%	2%	43%	0%	55%	2%	43%	31	63%	1.2
	Germany	125,290,608	125.3	15%	0%	63%	4%	33%	0%	63%	4%	33%	28	67%	1.4
	Hungary	167,779	0.2	0%	0%	0%	0%	100%	0%	0%	0%	100%	52	38%	2.0
	India	2,327,297	2.3	0%	0%	0%	0%	100%	0%	0%	0%	100%	68	19%	1.5
	Indonesia	18,485,721	18.5	2%	0%	32%	0%	68%	0%	32%	0%	68%	68	19%	1.3
	Ireland, Republic of	6,393,164	6.4	1%	0%	96%	0%	4%	0%	96%	0%	4%	16	81%	1.2
	Italy	247,261	0.2	0%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.0
	Lithuania	170,594	0.2	0%	0%	100%	0%	0%	0%	100%	0%	0%	17	80%	1.0
	Luxembourg	96,259	0.1	0%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.0
	Malaysia	12,733,880	12.7	1%	0%	70%	0%	30%	0%	70%	0%	30%	66	21%	1.9
	Netherlands	131,767,023	131.8	15%	0%	95%	0%	5%	0%	95%	0%	5%	16	81%	1.1
	Poland	4,218,960	4.2	0%	0%	2%	0%	98%	0%	2%	0%	98%	51	39%	1.3
	Portugal	2,259,298	2.3	0%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.1
	Romania	20,000	0.0	0%	0%	0%	0%	100%	0%	0%	0%	100%	52	38%	1.0
	Spain	40,763,441	40.8	5%	0%	97%	0%	3%	0%	97%	0%	3%	15	82%	1.1
	Sweden	377,535	0.4	0%	0%	100%	0%	0%	0%	100%	0%	0%	13	84%	5.0
	Switzerland	31,084	0.0	0%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.0
	Ukraine	5,390,956	5.4	1%	0%	0%	16%	84%	0%	0%	16%	84%	52	38%	1.3
	United Kingdom	133,424,320	133.4	16%	0%	95%	0%	5%	0%	89%	5%	5%	18	79%	3.2
	United States	86,694,326	86.7	10%	0%	69%	0%	31%	0%	69%	0%	31%	26	69%	2.8
	Unknown	41,826,800	41.8	5%	0%	2%	0%	98%	0%	2%	0%	98%	87	-3%	0.1
	<b>Total Mean</b>	<b>853,497,451</b>	<b>853.5</b>	<b>100%</b>	<b>0%</b>	<b>61%</b>	<b>1%</b>	<b>38%</b>	<b>2%</b>	<b>59%</b>	<b>2%</b>	<b>38%</b>	<b>34</b>	<b>59%</b>	<b>1.7</b>
Previous land-use	By-product	480,134,540	480.1	56%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.9
	Cropland – non-protected	37,326,115	37.3	4%	0%	5%	0%	95%	0%	1%	4%	95%	51	39%	2.4
	Cropland - protection status unknown	223,221,488	223.2	26%	0%	12%	2%	86%	4%	8%	2%	86%	57	31%	1.4
	Unknown	112,815,308	112.8	13%	0%	12%	2%	86%	3%	4%	7%	86%	69	18%	0.9
	<b>Total Mean</b>	<b>853,497,451</b>	<b>853.5</b>	<b>100%</b>	<b>0%</b>	<b>61%</b>	<b>1%</b>	<b>38%</b>	<b>2%</b>	<b>59%</b>	<b>2%</b>	<b>38%</b>	<b>34</b>	<b>59%</b>	<b>1.7</b>

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**Table 5: Carbon and sustainability data of bioethanol from different feedstocks, countries, and according to the previous land-use.**

		Volume, litres	Volume, million litres	Volume, %	Proportion meeting an environmental standard				Proportion meeting a social standard				Carbon intensity, g(CO <sub>2</sub> e)/MJ	Greenhouse gas saving, %	Accuracy level, (0-6)
					RTFO	QS	Other standards	None/ unknown	RTFO	QS	Other standards	None/ unknown			
Feedstock	Barley	21,069,394	21.1	4%	0%	0%	0%	100%	0%	0%	0%	100%	47	44%	4.9
	Corn EC	65,084,686	65.1	11%	0%	0%	0%	100%	0%	0%	0%	100%	35	59%	4.2
	Corn non EC	131,923,160	131.9	23%	0%	0%	0%	100%	0%	0%	0%	100%	49	41%	3.4
	Molasses	17,966,773	18.0	3%	0%	100%	0%	0%	0%	100%	0%	0%	61	27%	1.0
	Rye	326,680	0.3	0%	0%	0%	0%	100%	0%	0%	0%	100%	115	-37%	1.0
	Sugar beet	86,618,487	86.6	15%	0%	85%	0%	15%	0%	4%	82%	15%	24	71%	5.3
	Sugar cane	120,086,510	120.1	21%	-*	-*	-*	-*	-*	-*	-*	-*	24	71%	1.0
	Triticale	910,380	0.9	0%	0%	0%	0%	100%	0%	0%	0%	100%	62	26%	1.0
	Wheat	140,633,736	140.6	24%	0%	49%	2%	50%	0%	0%	50%	50%	38	55%	4.0
	Unknown	1,060,085	1.1	0%	0%	0%	0%	100%	0%	0%	0%	100%	115	-37%	0.0
<b>Total Mean</b>		<b>585,679,891</b>	<b>585.7</b>	<b>100%</b>	<b>0%</b>	<b>27%</b>	<b>0%</b>	<b>72%</b>	<b>0%</b>	<b>4%</b>	<b>24%</b>	<b>72%</b>	<b>36</b>	<b>57%</b>	<b>3.4</b>
Country of origin	Belgium	7,883,950	7.9	1%	0%	0%	0%	100%	0%	0%	0%	100%	53	37%	1.0
	Brazil	119,171,089	119.2	20%	-*	-*	-*	-*	-*	-*	-*	-*	24	71%	1.0
	Costa Rica	6,839,970	6.8	1%	0%	100%	0%	0%	0%	100%	0%	0%	61	27%	1.0
	Czech Republic	343,354	0.3	0%	0%	0%	0%	100%	0%	0%	0%	100%	70	16%	1.0
	Denmark	1,575,598	1.6	0%	0%	0%	0%	100%	0%	0%	0%	100%	55	35%	1.6
	Finland	45,801	0.0	0%	0%	0%	0%	100%	0%	0%	0%	100%	70	16%	1.0
	France	60,079,277	60.1	10%	0%	0%	0%	100%	0%	0%	0%	100%	47	44%	2.9
	Germany	915,553	0.9	0%	0%	0%	0%	100%	0%	0%	0%	100%	53	37%	1.0
	Guatemala	10,653,780	10.7	2%	0%	91%	0%	9%	0%	91%	0%	9%	58	31%	1.1
	Hungary	1,695,727	1.7	0%	0%	0%	0%	100%	0%	0%	0%	100%	40	52%	3.0
	Latvia	148,914	0.1	0%	0%	0%	0%	100%	0%	0%	0%	100%	62	26%	1.0
	Lithuania	37	0.0	0%	0%	0%	0%	100%	0%	0%	0%	100%	62	26%	1.0
	Netherlands	50,943	0.1	0%	0%	0%	0%	100%	0%	0%	0%	100%	70	16%	1.0
	Nicaragua	1,388,444	1.4	0%	0%	100%	0%	0%	0%	100%	0%	0%	61	27%	1.0
	Poland	606,992	0.6	0%	0%	0%	0%	100%	0%	0%	0%	100%	62	26%	1.0
	Romania	1,706,556	1.7	0%	0%	0%	0%	100%	0%	0%	0%	100%	43	49%	1.0
	Serbia	504,707	0.5	0%	0%	0%	0%	100%	0%	0%	0%	100%	34	59%	5.0
	Spain	51,365,124	51.4	9%	0%	0%	0%	100%	0%	0%	0%	100%	39	54%	4.7
	Sweden	2,934,911	2.9	1%	0%	0%	0%	100%	0%	0%	0%	100%	59	30%	1.9
	United Kingdom	184,863,736	184.9	32%	0%	77%	1%	22%	0%	2%	76%	22%	27	68%	5.2
	United States	131,418,453	131.4	22%	0%	0%	0%	100%	0%	0%	0%	100%	49	41%	3.4
	Unknown	1,486,975	1.5	0%	0%	0%	0%	100%	0%	0%	0%	100%	95	-13%	0.3
<b>Total Mean</b>		<b>585,679,891</b>	<b>585.7</b>	<b>100%</b>	<b>0%</b>	<b>27%</b>	<b>0%</b>	<b>72%</b>	<b>0%</b>	<b>4%</b>	<b>24%</b>	<b>72%</b>	<b>36</b>	<b>57%</b>	<b>3.4</b>
Previous land-use	By-product	17,966,773	18.0	3%	0%	100%	0%	0%	0%	100%	0%	0%	61	27%	1.0
	Cropland - non-protected	254,912,564	254.9	44%	0%	20%	0%	80%	0%	1%	19%	80%	29	66%	3.2
	Cropland - protected	73,976	0.1	0%	0%	0%	0%	100%	0%	0%	0%	100%	40	52%	1.0
	Cropland - protection status unknown	260,282,865	260.3	44%	0%	34%	0%	66%	0%	0%	34%	66%	38	54%	4.0
	Unknown	52,443,713	52.4	9%	0%	6%	2%	92%	0%	0%	8%	92%	56	34%	2.2
<b>Total Mean</b>		<b>585,679,891</b>	<b>585.7</b>	<b>100%</b>	<b>0%</b>	<b>27%</b>	<b>0%</b>	<b>72%</b>	<b>0%</b>	<b>4%</b>	<b>24%</b>	<b>72%</b>	<b>36</b>	<b>57%</b>	<b>3.4</b>

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**Table 6: Carbon and sustainability data of biogas by feedstock, country of origin and previous land-use.**

		Volume, kilograms	Volume, million kilograms	Volume, %	Proportion meeting an environmental standard				Proportion meeting a social standard				Carbon intensity, g(CO <sub>2</sub> e)/MJ	Greenhouse gas saving, %	Accuracy level, (0-6)
					RTFO	QS	Other standards	None/ unknown	RTFO	QS	Other standards	None/ unknown			
Feedstock	MSW	428,207	0.4	100%	0%	100%	0%	0%	0%	100%	0%	0%	27	68%	5.0
Country of origin	United Kingdom	428,207	0.4	100%	0%	100%	0%	0%	0%	100%	0%	0%	27	68%	5.0
Previous land-use	By-product	428,207	0.4	100%	0%	100%	0%	0%	0%	100%	0%	0%	27	68%	5.0

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Table 7: Carbon and sustainability data of total biofuel from different feedstocks, countries and according to the previous land-use.

		Volume, litres or kilograms	Volume, million litres/kilograms	Volume, %	Proportion meeting an environmental standard				Proportion meeting a social standard				Carbon intensity, g(CO <sub>2</sub> e)/MJ	Greenhouse gas saving, %	Accuracy level, (0-6)
					RTFO	QS	Other standards	None/ unknown	RTFO	QS	Other standards	None/ unknown			
Feedstock	Barley	21,069,394	21.1	1%	0%	0%	0%	100%	0%	0%	0%	100%	47	44%	4.9
	Corn EC	65,084,686	65.1	5%	0%	0%	0%	100%	0%	0%	0%	100%	35	59%	4.2
	Corn non EC	131,923,160	131.9	9%	0%	0%	0%	100%	0%	0%	0%	100%	49	41%	3.4
	Molasses	17,966,773	18.0	1%	0%	100%	0%	0%	0%	100%	0%	0%	61	27%	1.0
	Municipal solid waste	428,207	0.4	0%	0%	100%	0%	0%	0%	100%	0%	0%	27	68%	5.0
	Oilseed rape	89,659,689	89.7	6%	0%	8%	7%	85%	0%	0%	15%	85%	52	38%	1.5
	Palm	33,546,898	33.5	2%	0%	44%	0%	56%	0%	44%	0%	56%	67	20%	1.5
	Rye	326,680	0.3	0%	0%	0%	0%	100%	0%	0%	0%	100%	115	-37%	1.0
	Soy	214,206,004	214.2	15%	0%	10%	0%	90%	6%	4%	0%	90%	57	32%	1.5
	Sugar beet	86,618,487	86.6	6%	0%	85%	0%	15%	0%	4%	82%	15%	24	71%	5.3
	Sugar cane	120,086,510	120.1	8%	-*	-*	-*	-*	-*	-*	-*	-*	24	71%	1.0
	Tallow	51,880,942	51.9	4%	0%	100%	0%	0%	0%	100%	0%	0%	17	80%	1.3
	Triticale	910,380	0.9	0%	0%	0%	0%	100%	0%	0%	0%	100%	62	26%	1.0
	Used cooking oil	428,253,598	428.3	30%	0%	100%	0%	0%	0%	100%	0%	0%	14	84%	2.0
	Wheat	140,633,736	140.6	10%	0%	49%	2%	50%	0%	0%	50%	50%	38	55%	4.0
	Unknown	37,010,405	37.0	3%	0%	0%	0%	100%	0%	0%	0%	100%	94	-12%	0.0
<b>Total Mean</b>		<b>1,439,605,549</b>	<b>1439.6</b>	<b>100%</b>	<b>0%</b>	<b>47%</b>	<b>1%</b>	<b>52%</b>	<b>1%</b>	<b>36%</b>	<b>11%</b>	<b>52%</b>	<b>35</b>	<b>58%</b>	<b>2.4</b>
Country of origin	Argentina	180,086,489	180.1	13%	0%	11%	0%	89%	7%	5%	0%	89%	58	31%	1.3
	Austria	2,811,464	2.8	0%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.2
	Belgium	31,914,011	31.9	2%	0%	71%	0%	29%	0%	71%	0%	29%	25	70%	1.2
	Brazil	119,813,183	119.8	8%	-*	-*	-*	-*	-*	-*	-*	-*	24	71%	1.0
	Canada	285,855	0.3	0%	0%	16%	0%	84%	0%	16%	0%	84%	50	40%	1.0
	Chile	225,277	0.2	0%	0%	100%	0%	0%	0%	100%	0%	0%	13	84%	5.0
	Costa Rica	6,839,970	6.8	0%	0%	100%	0%	0%	0%	100%	0%	0%	61	27%	1.0
	Czech Republic	457,274	0.5	0%	0%	25%	0%	75%	0%	25%	0%	75%	56	33%	1.0
	Denmark	8,209,896	8.2	1%	0%	75%	0%	25%	0%	75%	0%	25%	26	69%	1.5
	Finland	843,091	0.8	0%	0%	95%	0%	5%	0%	95%	0%	5%	19	78%	2.1
	France	85,263,674	85.3	6%	0%	16%	1%	83%	0%	16%	1%	83%	42	49%	2.4
	Germany	126,206,161	126.2	9%	0%	63%	4%	33%	0%	63%	4%	33%	28	66%	1.4
	Guatemala	10,653,780	10.7	1%	0%	91%	0%	9%	0%	91%	0%	9%	58	31%	1.1
	Hungary	1,863,506	1.9	0%	0%	0%	0%	100%	0%	0%	0%	100%	41	51%	2.9
	India	2,327,297	2.3	0%	0%	0%	0%	100%	0%	0%	0%	100%	68	19%	1.5
	Indonesia	18,485,721	18.5	1%	0%	32%	0%	68%	0%	32%	0%	68%	68	19%	1.3
	Ireland, Republic of	6,393,164	6.4	0%	0%	96%	0%	4%	0%	96%	0%	4%	16	81%	1.2
	Italy	247,261	0.2	0%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.0
	Latvia	148,914	0.1	0%	0%	0%	0%	100%	0%	0%	0%	100%	62	26%	1.0
	Lithuania	170,631	0.2	0%	0%	100%	0%	0%	0%	100%	0%	0%	17	80%	1.0
	Luxembourg	96,259	0.1	0%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.0
	Malaysia	12,733,880	12.7	1%	0%	70%	0%	30%	0%	70%	0%	30%	66	21%	1.9
	Netherlands	131,817,966	131.8	9%	0%	95%	0%	5%	0%	95%	0%	5%	16	81%	1.1
	Nicaragua	1,388,444	1.4	0%	0%	100%	0%	0%	0%	100%	0%	0%	61	27%	1.0
	Poland	4,825,952	4.8	0%	0%	2%	0%	98%	0%	2%	0%	98%	53	37%	1.3
	Portugal	2,259,298	2.3	0%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.1
	Romania	1,726,556	1.7	0%	0%	0%	0%	100%	0%	0%	0%	100%	43	49%	1.0
	Serbia	504,707	0.5	0%	0%	0%	0%	100%	0%	0%	0%	100%	34	59%	5.0
	Spain	92,128,565	92.1	6%	0%	43%	0%	57%	0%	43%	0%	57%	28	66%	3.1
	Sweden	3,312,446	3.3	0%	0%	11%	0%	89%	0%	11%	0%	89%	54	36%	2.3
	Switzerland	31,084	0.0	0%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	1.0
	Ukraine	5,390,956	5.4	0%	0%	0%	16%	84%	0%	0%	16%	84%	52	38%	1.3
	United Kingdom	318,716,263	318.7	22%	0%	85%	1%	15%	0%	39%	15%	23%	72%	4.3	
	United States	218,112,779	218.1	15%	0%	27%	0%	73%	0%	27%	0%	73%	40	52%	3.2
	Unknown	43,313,775	43.3	3%	0%	2%	0%	98%	0%	2%	0%	98%	87	-4%	0.1
<b>Total Mean</b>		<b>1,439,605,549</b>	<b>1439.6</b>	<b>100%</b>	<b>0%</b>	<b>47%</b>	<b>1%</b>	<b>52%</b>	<b>1%</b>	<b>36%</b>	<b>11%</b>	<b>52%</b>	<b>35</b>	<b>58%</b>	<b>2.4</b>
Previous land-use	By-product	498,529,520	498.5	35%	0%	100%	0%	0%	0%	100%	0%	0%	16	81%	1.9
	Cropland – non-protected	292,238,679	292.2	20%	0%	19%	0%	81%	0%	1%	17%	81%	32	62%	3.1
	Cropland – protected	73,976	0.1	0%	0%	0%	0%	100%	0%	0%	0%	100%	40	52%	1.0
	Cropland – protection status unknown	483,504,353	483.5	34%	0%	24%	1%	75%	2%	4%	19%	75%	47	44%	2.8
	Unknown	165,259,021	165.3	11%	0%	10%	2%	88%	2%	3%	7%	88%	64	23%	1.3
<b>Total Mean</b>		<b>1,439,605,549</b>	<b>1439.6</b>	<b>100%</b>	<b>0%</b>	<b>47%</b>	<b>1%</b>	<b>52%</b>	<b>1%</b>	<b>36%</b>	<b>11%</b>	<b>52%</b>	<b>35</b>	<b>58%</b>	<b>2.4</b>

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Table 8: Carbon and sustainability data of biofuel from UK feedstocks, by feedstocks and according to the previous land-use.

		Volume, litres	Volume, million litres	Volume, %	Proportion meeting an environmental standard				Proportion meeting a social standard				Carbon intensity, g(CO <sub>2</sub> e)/MJ	Greenhouse gas saving, %	Accuracy level, (0-6)
					RTFO	QS	Other standards	None/ unknown	RTFO	QS	Other standards	None/ unknown			
Feedstock	Municipal solid waste	428,207	0.4	0%	0%	100%	0%	0%	0%	100%	0%	0%	27	68%	5.0
	Oilseed rape	13,876,500	13.9	4%	0%	51%	0%	49%	0%	0%	51%	49%	52	37%	1.3
	Sugar beet	74,103,712	74.1	23%	0%	100%	0%	0%	0%	5%	95%	0%	22	74%	5.9
	Tallow	19,699,639	19.7	6%	0%	100%	0%	0%	0%	100%	0%	0%	16	80%	1.7
	Used cooking oil	99,848,181	99.8	31%	0%	100%	0%	0%	0%	100%	0%	0%	13	84%	3.7
	Wheat	110,760,024	110.8	35%	0%	62%	2%	36%	0%	0%	64%	36%	30	64%	4.7
	<b>Total</b>	<b>318,716,263</b>	<b>318.7</b>	<b>100%</b>											
	<b>Mean</b>				<b>0%</b>	<b>85%</b>	<b>1%</b>	<b>15%</b>	<b>0%</b>	<b>39%</b>	<b>47%</b>	<b>15%</b>	<b>23</b>	<b>72%</b>	<b>4.3</b>
Previous land-use	By-product	119,976,027	120.0	38%	0%	100%	0%	0%	0%	100%	0%	0%	14	83%	3.4
	Cropland – non-protected	56,789,790	56.8	18%	0%	95%	0%	5%	0%	6%	89%	5%	24	71%	5.5
	Cropland - protection status unknown	121,494,133	121.5	38%	0%	72%	1%	27%	0%	0%	73%	27%	29	66%	5.1
	Unknown	20,456,313	20.5	6%	0%	41%	6%	53%	0%	0%	47%	53%	42	50%	2.4
	<b>Total</b>	<b>318,716,263</b>	<b>318.7</b>	<b>100%</b>											
	<b>Mean</b>				<b>0%</b>	<b>85%</b>	<b>1%</b>	<b>15%</b>	<b>0%</b>	<b>39%</b>	<b>47%</b>	<b>15%</b>	<b>23</b>	<b>72%</b>	<b>4.3</b>

N.B. This includes biofuels from UK feedstocks which have been sold into the UK road fuel market. UK biofuel feedstocks sold abroad are not included.

Table 9: Data capture

	Biofuel type	Data capture: feedstock known	Data capture: country known	Data capture: land use known	Data capture: standard known	Data capture: AVERAGE
Fuel type	Biodiesel	96%	95%	87%	62%	85%
	Bioethanol	100%	100%	91%	46%	84%
	Biogas	100%	100%	100%	100%	100%
	<b>Total biofuel</b>	<b>97%</b>	<b>97%</b>	<b>89%</b>	<b>56%</b>	<b>85%</b>
					<b>Annual target</b>	<b>90%</b>

Table 10: Accuracy Level

	Biofuel type	Level 0 - Fuel default	Level 1 - Feedstock default	Level 2 - Process default	Level 3 - Selected default – RTFO Administrator	Level 4 - Selected default – Industry defined, or NUTS	Level 5 - Actual data	Level 6 - Cultivation actual data	ACCURACY LEVEL: AVERAGE
Fuel type	Biodiesel	4%	68%	10%	4%	2%	12%	0%	<b>1.7</b>
	Bioethanol	0%	38%	6%	1%	2%	41%	13%	<b>3.4</b>
	Biogas	0%	0%	0%	0%	0%	100%	0%	<b>5.0</b>
	<b>Total Biofuel</b>	<b>3%</b>	<b>56%</b>	<b>8%</b>	<b>2%</b>	<b>2%</b>	<b>24%</b>	<b>5%</b>	<b>2.4</b>

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Table 11: Trends

	Month	Volume, litres or kg	Volume	Proportion meeting an environmental standard				Greenhouse gas saving			Data capture						
				RTFO	OS	Env. Std. Target	± Target	Saving	Target	± Target	Feedstock	Country of origin	Previous land use	Standard	Average data capture	Target	± Target
Year 1	1	86,983,639	87.0 m l	5%	14%	30%	-11%	43%	40%	3%	97%	69%	51%	23%	60%	50%	10%
	2	122,708,284	122.7 m l	3%	19%	30%	-8%	48%	40%	8%	97%	80%	55%	27%	65%	50%	15%
	3	110,562,859	110.6 m l	4%	19%	30%	-8%	47%	40%	7%	98%	82%	55%	29%	66%	50%	16%
	4	112,609,421	112.6 m l	4%	20%	30%	-7%	47%	40%	7%	98%	80%	55%	36%	67%	50%	17%
	5	117,492,397	117.5 m l	4%	11%	30%	-15%	46%	40%	6%	100%	85%	60%	27%	68%	50%	18%
	6	116,848,541	116.8 m l	6%	18%	30%	-7%	48%	40%	8%	100%	85%	51%	31%	67%	50%	17%
	7	117,891,585	117.9 m l	13%	5%	30%	-12%	43%	40%	3%	100%	81%	60%	30%	68%	50%	18%
	8	112,111,217	112.1 m l	11%	9%	30%	-10%	45%	40%	5%	99%	80%	56%	28%	66%	50%	16%
	9	94,166,410	94.2 m l	8%	10%	30%	-12%	47%	40%	7%	100%	82%	62%	35%	70%	50%	20%
	10	96,400,546	96.4 m l	13%	8%	30%	-9%	45%	40%	5%	100%	82%	62%	30%	69%	50%	19%
	11	88,545,305	88.5 m l	17%	15%	30%	3%	52%	40%	12%	100%	82%	67%	40%	72%	50%	22%
	12	107,232,464	107.2 m l	9%	14%	30%	-6%	53%	40%	13%	99%	85%	63%	29%	69%	50%	19%
Year 2	13	103,367,499	103.4 m l	10%	20%	50%	-21%	47%	45%	2%	96%	85%	77%	39%	74%	70%	4%
	14	104,848,340	104.8 m l	14%	23%	50%	-13%	51%	45%	6%	92%	78%	68%	39%	69%	70%	-1%
	15	122,102,634	122.1 m l	16%	21%	50%	-14%	52%	45%	7%	96%	87%	77%	44%	76%	70%	6%
	16	119,988,509	120.0 m l	15%	21%	50%	-13%	53%	45%	8%	96%	86%	77%	43%	75%	70%	5%
	17	128,484,399	128.5 m l	14%	18%	50%	-18%	50%	45%	5%	94%	85%	66%	37%	70%	70%	0%
	18	131,647,133	131.6 m l	17%	21%	50%	-12%	51%	45%	6%	96%	85%	66%	42%	72%	70%	2%
	19	127,393,716	127.4 m l	17%	16%	50%	-16%	52%	45%	7%	97%	82%	66%	35%	70%	70%	0%
	20	137,456,413	137.5 m l	18%	15%	50%	-17%	52%	45%	7%	99%	86%	72%	40%	74%	70%	4%
	21	127,794,601	127.8 m l	13%	10%	50%	-27%	48%	45%	3%	92%	83%	62%	28%	66%	70%	-4%
	22	145,582,184	145.6 m l	12%	15%	50%	-23%	51%	45%	6%	98%	93%	72%	33%	74%	70%	4%
	23	142,822,810	142.8 m l	16%	13%	50%	-21%	50%	45%	5%	95%	92%	75%	33%	74%	70%	4%
	24	177,000,412	177.0 m l	10%	16%	50%	-24%	50%	45%	5%	94%	91%	72%	31%	72%	70%	2%
Year 3	25	129,921,475	129.9 m l	13%	25%	80%	-42%	48%	50%	-2%	99%	97%	73%	38%	77%	90%	-13%
	26	141,933,913	141.9 m l	5%	30%	80%	-45%	45%	50%	-5%	97%	97%	81%	37%	78%	90%	-12%
	27	124,997,880	125.0 m l	9%	39%	80%	-32%	52%	50%	2%	97%	96%	87%	49%	82%	90%	-8%
	28	148,496,544	148.5 m l	13%	40%	80%	-27%	53%	50%	3%	97%	96%	80%	54%	82%	90%	-8%
	29	135,836,157	135.8 m l	3%	47%	80%	-30%	55%	50%	5%	98%	98%	94%	50%	85%	90%	-5%
	30	156,468,366	156.5 m l	9%	52%	80%	-18%	58%	50%	8%	93%	93%	91%	62%	85%	90%	-5%
	31	106,874,232	106.9 m l	12%	56%	80%	-13%	61%	50%	11%	93%	93%	91%	68%	86%	90%	-4%
	32	104,243,428	104.2 m l	14%	55%	80%	-10%	68%	50%	18%	99%	99%	98%	70%	92%	90%	2%
	33	84,584,977	84.6 m l	4%	61%	80%	-15%	68%	50%	18%	100%	100%	100%	65%	91%	90%	1%
	34	94,437,708	94.4 m l	1%	60%	80%	-18%	66%	50%	16%	100%	100%	91%	62%	88%	90%	-2%
	35	98,479,147	98.5 m l	2%	58%	80%	-20%	68%	50%	18%	100%	100%	90%	61%	88%	90%	-2%
	36	113,331,722	113.3 m l	1%	64%	80%	-15%	70%	50%	20%	100%	100%	94%	66%	90%	90%	0%

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Provisional data for the 2010/11 obligation year to date

Table 12: Carbon and sustainability data for biofuels by fuel type, feedstock, country of origin, and previous land-use.

Biofuel type	Feedstock	Country of origin	Previous land-use	Volume, l or kg	Volume, million l or million kg	Volume, %	Proportion meeting an environmental standard	Proportion meeting a social standard	Carbon intensity, g(CO <sub>2</sub> e)/MJ	Greenhouse gas saving, %	Accuracy level, (0-6)
							RTFO	Qualifying Standards	Other standards	None/unknown	
Biodiesel	Oilseed rape	Belgium	Cropland – non-protected	10,122	0.0 m l	0%	0%	0%	100%	0%	38%
			Cropland - protection status unknown	1,248,016	1.2 m l	0%	0%	0%	100%	0%	2.8
			Unknown	126,491	0.1 m l	0%	0%	0%	100%	0%	1.0
			Canada	55,561	0.1 m l	0%	0%	0%	100%	0%	1.0
		Denmark	Cropland - protection status unknown	452,267	0.5 m l	0%	0%	0%	100%	0%	1.0
			Unknown	55,388	0.1 m l	0%	0%	0%	100%	0%	1.0
		France	Cropland – non-protected	3,024,260	3.0 m l	0%	0%	0%	100%	0%	1.0
			Cropland - protection status unknown	6,047,604	6.0 m l	0%	0%	0%	100%	0%	1.6
			Unknown	2,213,564	2.2 m l	0%	0%	21%	79%	0%	1.2
		Germany	Cropland – non-protected	7,031,441	7.0 m l	0%	0%	0%	100%	0%	1.0
			Cropland - protection status unknown	29,290,232	29.3 m l	2%	0%	14%	86%	0%	2.0
			Unknown	4,816,601	4.8 m l	0%	0%	13%	87%	0%	1.2
		Hungary	Cropland - protection status unknown	167,779	0.2 m l	0%	0%	0%	100%	0%	2.0
			Cropland – non-protected	319,699	0.3 m l	0%	0%	0%	100%	0%	1.0
			Cropland - protection status unknown	6,025,625	6.0 m l	0%	0%	0%	100%	0%	1.4
		Netherlands	Unknown	398,003	0.4 m l	0%	0%	0%	100%	0%	1.0
			Cropland – non-protected	574,250	0.6 m l	0%	0%	0%	100%	0%	1.0
			Cropland - protection status unknown	3,552,630	3.6 m l	0%	0%	0%	100%	0%	1.4
		Poland	Unknown	195	0.0 m l	0%	0%	0%	100%	0%	1.7
			Cropland - protection status unknown	20,000	0.0 m l	0%	0%	0%	100%	0%	1.0
		Romania	Cropland - protection status unknown	1,141,980	1.1 m l	0%	0%	0%	100%	0%	1.0
			Cropland – non-protected	2,500,581	2.5 m l	0%	0%	0%	100%	0%	1.3
		Ukraine	Cropland - protection status unknown	1,851,224	1.9 m l	0%	0%	0%	100%	0%	1.4
			Unknown	1,039,151	1.0 m l	0%	0%	81%	19%	0%	1.0
			Cropland – non-protected	4,542,640	4.5 m l	0%	35%	0%	65%	0%	1.0
		United Kingdom	Cropland - protection status unknown	530,959	0.5 m l	0%	7%	0%	93%	0%	1.0
			Unknown	8,802,901	8.8 m l	1%	0%	62%	38%	0%	1.5
			Cropland – non-protected	619,797	0.6 m l	0%	0%	0%	100%	0%	1.0
		United States	Unknown	623,419	0.6 m l	0%	0%	0%	100%	0%	1.0
			Cropland - protection status unknown	653,158	0.7 m l	0%	0%	0%	100%	0%	1.0
			Unknown	1,924,151	1.9 m l	0%	0%	0%	100%	0%	1.0
		Palm	Cropland - protection status unknown	2,327,297	2.3 m l	0%	0%	0%	100%	0%	1.5
			Indonesia	15,801,677	15.8 m l	1%	0%	33%	67%	0%	1.3
			Unknown	2,684,044	2.7 m l	0%	0%	33%	67%	0%	1.4
			Malaysia	291,461	0.3 m l	0%	0%	100%	0%	0%	1.0
	Soy	Argentina	Cropland – non-protected	10,147,113	10.1 m l	1%	0%	75%	25%	0%	1.8
			Cropland - protection status unknown	2,295,306	2.3 m l	0%	0%	42%	58%	0%	2.5
			Unknown	1,168,674	1.2 m l	0%	0%	0%	100%	0%	1.0
			Cropland - protection status unknown	135,685,105	135.7 m l	9%	0%	10%	90%	7%	1.3
		Brazil	Unknown	43,232,710	43.2 m l	3%	0%	15%	85%	8%	1.2
			Cropland - protection status unknown	436,238	0.4 m l	0%	0%	0%	100%	0%	5.0
			Unknown	205,856	0.2 m l	0%	0%	0%	100%	0%	1.0
		Canada	Cropland - protection status unknown	184,968	0.2 m l	0%	0%	0%	100%	0%	1.0
			Cropland – non-protected	4,953,214	5.0 m l	0%	0%	0%	100%	0%	1.0
		United States	Cropland - protection status unknown	17,243,190	17.2 m l	1%	0%	0%	100%	0%	4.0
			Unknown	2,648,841	2.6 m l	0%	0%	12%	88%	12%	1.2
			Unknown	6,171,631	6.2 m l	0%	0%	0%	100%	0%	1.6
		Unknown	Unknown	2,275,577	2.3 m l	0%	0%	0%	100%	0%	1.0
			Belgium	234,453	0.2 m l	0%	0%	100%	0%	0%	1.0
			Canada	45,326	0.0 m l	0%	0%	100%	0%	0%	1.0
Tallow		Denmark	By-product	5,040,164	5.0 m l	0%	0%	100%	0%	0%	1.0
			By-product	562,733	0.6 m l	0%	0%	100%	0%	0%	1.0
		France	By-product	121,364	0.1 m l	0%	0%	100%	0%	0%	1.0
			By-product	6,620,433	6.6 m l	0%	0%	100%	0%	0%	1.3
		Germany	By-product	3,590,080	3.6 m l	0%	0%	97%	3%	0%	1.1
			By-product	170,594	0.2 m l	0%	0%	100%	0%	0%	1.0
		Ireland, Republic of	By-product	3,352,351	3.4 m l	0%	0%	100%	0%	0%	1.4
			By-product	89,646	0.1 m l	0%	0%	100%	0%	0%	2.4
		Lithuania	By-product	651	0.0 m l	0%	0%	100%	0%	0%	1.0
			By-product	19,699,639	19.7 m l	1%	0%	100%	0%	0%	1.7
		Switzerland	By-product	11,436,272	11.4 m l	1%	0%	100%	0%	0%	1.0
			By-product	917,236	0.9 m l	0%	0%	100%	0%	0%	1.0
		United Kingdom	By-product	2,811,464	2.8 m l	0%	0%	100%	0%	0%	1.2
			By-product	22,410,979	22.4 m l	2%	0%	100%	0%	0%	1.1
		Unknown	By-product	225,277	0.2 m l	0%	0%	100%	0%	0%	5.0
			By-product	113,920	0.1 m l	0%	0%	100%	0%	0%	1.0
		Czech Republic	By-product	1,086,479	1.1 m l	0%	0%	100%	0%	0%	3.5
			By-product	234,557	0.2 m l	0%	0%	100%	0%	0%	5.0
		Denmark	By-product	13,777,605	13.8 m l	1%	0%	100%	0%	0%	1.0
			By-product	72,578,687	72.6 m l	5%	0%	100%	0%	0%	1.2
		France	By-product	2,803,084	2.8 m l	0%	0%	95%	5%	0%	1.3
			By-product	247,261	0.2 m l	0%	0%	100%	0%	0%	1.0
		Germany	By-product	96,259	0.1 m l	0%	0%	100%	0%	0%	1.0
			By-product	121,671,345	121.7 m l	8%	0%	100%	0%	0%	1.1
		Ireland, Republic of	By-product	2,239	0.0 m l	0%	0%	100%	0%	0%	1.0
			By-product	2,259,298	2.3 m l	0%	0%	100%	0%	0%	1.1
		Italy	By-product	39,621,461	39.6 m l	3%	0%	100%	0%	0%	1.1
			By-product	377,535	0.4 m l	0%	0%	100%	0%	0%	5.0
		Lithuania	By-product	30,433	0.0 m l	0%	0%	100%	0%	0%	1.0
			By-product	99,848,181	99.8 m l	7%	0%	100%	0%	0%	3.7
		Switzerland	By-product	47,951,176	48.0 m l	3%	0%	100%	0%	0%	3.1
			By-product	106,358	0.1 m l	0%	0%	100%	0%	0%	1.0
		United States	By-product	35,950,320	36.0 m l	2%	0%	100%	0%	0%	0.0
			Unknown								



Bioethanol	Barley	Belgium	Cropland - protection status unknown	126,391	0.1 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	78	7%	1.0
		France	Cropland - protection status unknown	126,391	0.1 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	78	7%	1.0
		Spain	Cropland - protection status unknown	20,446,343	20.4 m l	1%	0%	0%	0%	100%	0%	0%	0%	100%	46	45%	5.0
	Corn EC	Sweden	Cropland - protection status unknown	370,269	0.4 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	78	7%	1.0
		Belgium	Cropland - protection status unknown	85,946	0.1 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	43	49%	1.0
		France	Cropland – non-protected	9,832,985	9.8 m l	1%	0%	0%	0%	100%	0%	0%	0%	100%	40	52%	4.0
			Cropland - protection status unknown	20,272,096	20.3 m l	1%	0%	0%	0%	100%	0%	0%	0%	100%	31	62%	4.5
		Germany	Cropland - protection status unknown	572,595	0.6 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	43	49%	1.0
		Hungary	Cropland – non-protected	61,869	0.1 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	36	57%	5.0
			Cropland - protection status unknown	1,633,858	1.6 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	40	52%	2.9
		Romania	Cropland - protection status unknown	1,706,556	1.7 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	43	49%	1.0
		Spain	Cropland - protection status unknown	23,148,286	23.1 m l	2%	0%	0%	0%	100%	0%	0%	0%	100%	34	60%	4.3
			Unknown	7,770,495	7.8 m l	1%	0%	0%	0%	100%	0%	0%	0%	100%	34	60%	5.0
	Corn non EC	United States	Cropland – non-protected	75,638,023	75.6 m l	5%	0%	0%	0%	100%	0%	0%	0%	100%	40	53%	4.6
			Cropland - protection status unknown	40,248,158	40.2 m l	3%	0%	0%	0%	100%	0%	0%	0%	100%	58	31%	2.0
			Unknown	15,552,272	15.6 m l	1%	0%	0%	0%	100%	0%	0%	0%	100%	72	14%	1.5
		Serbia	Cropland - protection status unknown	504,707	0.5 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	34	59%	5.0
		Costa Rica	By-product	6,839,970	6.8 m l	0%	0%	100%	0%	0%	0%	100%	0%	0%	61	27%	1.0
	Molasses	Guatemala	By-product	9,738,359	9.7 m l	1%	0%	100%	0%	0%	0%	100%	0%	0%	61	27%	1.1
		Nicaragua	By-product	1,388,444	1.4 m l	0%	0%	100%	0%	0%	0%	100%	0%	0%	61	27%	1.0
	Rye	Sweden	Cropland - protection status unknown	326,680	0.3 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	115	-37%	1.0
	Sugar beet	Belgium	Cropland – protected	73,976	0.1 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	40	52%	1.0
			Cropland - protection status unknown	45,974	0.0 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	40	52%	1.0
			Unknown	4,284,974	4.3 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	40	52%	1.0
		France	Cropland - protection status unknown	8,109,851	8.1 m l	1%	0%	0%	0%	100%	0%	0%	0%	100%	40	52%	1.8
		United Kingdom	Cropland – non-protected	52,247,150	52.2 m l	4%	0%	100%	0%	0%	0%	6%	94%	0%	22	74%	5.9
	Sugar cane		Cropland - protection status unknown	21,856,562	21.9 m l	2%	0%	100%	0%	0%	0%	0%	100%	0%	22	74%	5.9
		Brazil	Cropland – non-protected	117,152,537	117.2 m l	8%	-*	-*	-*	-*	-*	-*	-*	-*	24	71%	1.0
			Cropland - protection status unknown	1,843,395	1.8 m l	0%	-*	-*	-*	-*	-*	-*	-*	-*	24	71%	1.0
			Unknown	175,157	0.2 m l	0%	-*	-*	-*	-*	-*	-*	-*	-*	24	71%	1.0
		Guatemala	Unknown	915,421	0.9 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	24	71%	1.0
	Triticale	Latvia	Cropland - protection status unknown	148,914	0.1 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	62	26%	1.0
		Lithuania	Cropland - protection status unknown	37	0.0 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	62	26%	1.0
		Poland	Cropland - protection status unknown	606,992	0.6 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	62	26%	1.0
	Wheat	Sweden	Cropland - protection status unknown	154,437	0.2 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	62	26%	1.0
		Belgium	Cropland - protection status unknown	2,794,805	2.8 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	70	16%	1.0
			Unknown	471,884	0.5 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	70	16%	1.0
		Czech Republic	Cropland - protection status unknown	343,354	0.3 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	70	16%	1.0
		Denmark	Cropland - protection status unknown	1,575,598	1.6 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	55	35%	1.6
		Finland	Cropland - protection status unknown	45,801	0.0 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	70	16%	1.0
		France	Cropland - protection status unknown	11,254,690	11.3 m l	1%	0%	0%	0%	100%	0%	0%	0%	100%	61	27%	1.6
			Unknown	10,483,264	10.5 m l	1%	0%	0%	0%	100%	0%	0%	0%	100%	74	11%	1.0
		Germany	Cropland - protection status unknown	306,009	0.3 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	70	16%	1.0
			Unknown	36,949	0.0 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	70	16%	1.0
		Netherlands	Cropland - protection status unknown	13,994	0.0 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	70	16%	1.0
			Unknown	36,949	0.0 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	70	16%	1.0
		Sweden	Cropland - protection status unknown	2,080,779	2.1 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	46	45%	2.3
		United Kingdom	Cropland - protection status unknown	99,106,612	99.1 m l	7%	0%	66%	1%	33%	0%	0%	67%	33%	30	64%	4.9
			Unknown	11,653,412	11.7 m l	1%	0%	26%	10%	64%	0%	0%	36%	64%	34	60%	3.2
			Cropland - protection status unknown	424,039	0.4 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	44	47%	1.0
			Unknown	5,597	0.0 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	70	16%	1.0
	Unknown	Sweden	Cropland - protection status unknown	2,746	0.0 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	115	-37%	0.0
		Unknown	Unknown	1,057,339	1.1 m l	0%	0%	0%	0%	100%	0%	0%	0%	100%	115	-37%	0.0
Bioogas	Municipal solid waste	United Kingdom	By-product	428,207	0.4 m l	0%	0%	100%	0%	0%	0%	100%	0%	0%	27	68%	5.0
Total				1,439,605,549	1439.6 m l	100%									35	58%	2.4
Mean							0%	47%	1%	52%	1%	36%	11%	52%			

\* Under the RTFO Order, these reports must not contain information from which the volumes of fuel being reported by individual suppliers might be derived. To protect the volumes of individual suppliers certain quantities of fuel reported as meeting the Qualifying Standard or RTFO Meta-Standard have been removed from the RTFO figures. In this report, all fuel meeting the Qualifying Standard or Meta-Standard has been included in the overall RTFO figures, but some has still been excluded from the reporting by feedstock and country. The figures by country and feedstock do not therefore tally exactly with the overall figures.

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Table 13: Company performance against the RTFO targets and carbon and sustainability criteria.

	Company	Proportion in each previous land-use category1					Proportion meeting an environmental standard			Proportion meeting a social standard			Carbon intensity, g(CO2e)/MJ	Greenhouse gas saving, %	Accuracy level, (0-6)	Data capture, %
		Cropland – non-protected	Cropland – protected	Cropland - protection status unknown	By-product	Unknown	RTFO+QS	Other standards	None/unknown	RTFO+QS	Other standards	None/unknown				
Obligated companies	BP Oil UK Limited	0%	0%	39%	47%	14%	47%	0%	53%	47%	0%	53%	51	40%	1.5	83%
	Chevron Limited	25%	0%	39%	45%	36%	39%	0%	55%	23%	23%	55%	59	30%	2.5	63%
	ConocoPhillips Limited	0%	0%	65%	17%	18%	34%	0%	66%	17%	13%	70%	40	52%	2.6	80%
	Esso Petroleum Company Limited	0%	0%	64%	22%	14%	50%	0%	50%	32%	19%	50%	42	50%	2.2	84%
	Greenergy Fuels Limited	52%	0%	47%	1%	0%	71%	0%	29%	71%	0%	29%	24	71%	2.7	92%
	Harvest Energy Ltd	6%	0%	31%	42%	20%	47%	0%	53%	43%	4%	53%	37	56%	1.9	82%
	INEOS Europe Limited	0%	0%	34%	11%	54%	11%	0%	89%	11%	0%	89%	67	20%	0.6	40%
	Lissan Coal Company Limited	0%	0%	0%	100%	0%	100%	0%	0%	100%	0%	0%	14	83%	1.0	100%
	Mabanaft UK Ltd	1%	0%	39%	41%	18%	44%	0%	56%	41%	2%	56%	41	51%	1.3	78%
	Morgan Stanley Capital Group Inc.	0%	0%	21%	21%	58%	21%	0%	79%	21%	0%	79%	52	37%	0.9	55%
	Murco Petroleum Ltd	0%	0%	0%	0%	100%	0%	0%	100%	0%	0%	100%	54	36%	0.9	49%
	Petroplus Refining Teesside Limited	1%	0%	39%	50%	10%	54%	0%	46%	52%	2%	46%	34	60%	1.4	86%
	Prax Petroleum Ltd	0%	0%	83%	0%	17%	85%	0%	15%	85%	0%	15%	22	74%	1.7	92%
	Shell UK Ltd	0%	0%	80%	13%	7%	40%	2%	58%	14%	27%	59%	38	54%	3.5	84%
	Topaz Energy Limited	0%	0%	0%	100%	0%	43%	0%	57%	43%	0%	57%	15	83%	3.3	88%
	Total UK Ltd	1%	0%	57%	31%	11%	44%	2%	54%	38%	8%	54%	41	51%	1.8	83%
Non-obligated companies	apple fuels limited	0%	0%	0%	100%	0%	100%	0%	0%	100%	0%	0%	14	83%	1.0	100%
	Argent Energy (UK) Ltd	0%	0%	0%	100%	0%	100%	0%	0%	100%	0%	0%	15	82%	1.0	100%
	Associated British Bio-Fuels Ltd	0%	0%	0%	100%	0%	100%	0%	0%	100%	0%	0%	43	49%	3.0	100%
	Bio UK Fuels (Sheffield) Ltd	0%	0%	0%	100%	0%	100%	0%	0%	100%	0%	0%	14	83%	1.0	100%
	Biofuel Refineries Ltd	0%	0%	0%	100%	0%	100%	0%	0%	100%	0%	0%	9	89%	3.0	100%
	Blomotive Fuels Ltd	0%	0%	0%	100%	0%	100%	0%	0%	100%	0%	0%	3	96%	5.0	100%
	British Sugar plc.	100%	0%	0%	0%	0%	100%	0%	0%	0%	100%	0%	21	75%	6.0	100%
	Convert2Green Limited	0%	0%	0%	100%	0%	100%	0%	0%	100%	0%	0%	14	83%	1.0	100%
	Double Green Ltd	0%	0%	0%	100%	0%	29%	0%	71%	29%	0%	71%	13	84%	4.5	100%
	Edible Oil Direct Ltd.	0%	0%	0%	100%	0%	100%	0%	0%	100%	0%	0%	14	84%	2.6	100%
	Evergreen Oil Limited	0%	0%	0%	100%	0%	100%	0%	0%	100%	0%	0%	14	83%	1.0	100%
	Footprint Fuels	0%	0%	0%	100%	0%	100%	0%	0%	100%	0%	0%	14	83%	1.0	100%
	Fuel Systems UK Limited	0%	0%	0%	100%	0%	100%	0%	0%	100%	0%	0%	14	83%	3.0	100%
	Gasrec Limited	0%	0%	0%	100%	0%	100%	0%	0%	100%	0%	0%	27	68%	5.0	100%
	Green Fuels Ltd	0%	0%	0%	100%	0%	0%	0%	100%	0%	0%	100%	13	84%	2.0	100%
	GreenerDiesel.com (UK) Limited	0%	0%	0%	100%	0%	100%	0%	0%	100%	0%	0%	13	84%	2.0	100%
	Greenolysis Ltd	0%	0%	0%	100%	0%	100%	0%	0%	100%	0%	0%	14	83%	1.0	100%
	Kassero Edible Oils Ltd	0%	0%	0%	100%	0%	100%	0%	0%	100%	0%	0%	13	84%	2.0	100%
	MFS Fuel Supplies Ltd	0%	0%	0%	100%	0%	0%	0%	100%	0%	0%	100%	13	84%	2.0	100%
	Neal Environmental Ltd	0%	0%	0%	100%	0%	100%	0%	0%	100%	0%	0%	14	83%	1.7	100%
	Phoenix Fuels Ltd	51%	0%	49%	0%	0%	100%	0%	0%	0%	100%	0%	21	75%	5.0	100%
	Pilkington Oils Limited	0%	0%	0%	100%	0%	100%	0%	0%	100%	0%	0%	14	84%	3.0	100%
	Pure Fuels Ltd	0%	0%	0%	100%	0%	100%	0%	0%	100%	0%	0%	14	83%	1.8	100%
	Rural Development Trust	0%	0%	0%	100%	0%	100%	0%	0%	100%	0%	0%	14	83%	1.0	79%
	Upton Diesel Ltd	0%	0%	0%	100%	0%	91%	0%	9%	91%	0%	9%	14	83%	3.0	100%
	Veg Oil Motoring	0%	0%	0%	100%	0%	100%	0%	0%	100%	0%	0%	1	99%	3.0	100%
	Wight Made Diesel	0%	0%	0%	100%	0%	100%	0%	0%	100%	0%	0%	14	83%	1.0	100%
	William John Brown T/as Greeneearth Biodiesel	0%	0%	0%	100%	0%	100%	0%	0%	100%	0%	0%	13	84%	3.0	100%
	Yateley Industries for the Disabled Limited	0%	0%	0%	100%	0%	100%	0%	0%	100%	0%	0%	14	83%	0.8	100%

<sup>1</sup> Only five land use types have been reported by companies in the year three: cropland - non protected; cropland - protected; cropland - protection status unknown; by-products; unknown land use. Cropland had been used as a land use type previously but the RTFO Administrator advised companies to update their data to one of the other types of cropland land uses.

The other land use types are: degraded land; forest >30%; forest >30% no change in status; forest 10-30%; forest 10-30% no change in status, grassland with agricultural land; grassland without agricultural land; undrained peatland; undrained peatland - no change in status; wetland; wetland - no change in status.

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**Table 14: Number of RTFO targets<sup>2</sup> met or exceeded by fossil fuel companies<sup>1</sup>.**

Number of targets met in RTFO Year 3 (year to date) <sup>2</sup>	Obligated company	Number of targets met in Quarter 3 of RTFO Year 3 (based on provisional data) <sup>3</sup>	Change from Quarter 3 of RRTFO Year 3 (based on provisional data)	Number of targets met in RTFO Year 2 (based on verified data) <sup>3</sup>	Change from RTFO Year 2 (based on provisional data)	Number of targets met in RTFO Year 1 (based on verified data) <sup>4</sup>	Change from RTFO Year 1 (based on provisional data)
3	Lissan Coal Company Limited	2	↑	3	•	3	↓
	Prax Petroleum Ltd	1	↑	0	↑	3	•
2	Greenergy Fuels Limited	2	•	3	↓	3	↓
1	ConocoPhillips Limited	0	↑	1	•	3	↓
	Esso Petroleum Company Limited	1	•	2	↓	2	↓
	Harvest Energy Ltd	1	•	2	↓	2	↓
	Mabanaft UK Ltd	0	↑	3	↓	3	↓
	Petroplus Refining Teesside Limited	1	•	2	↓	2	↓
	Shell UK Ltd	1	•	2	↓	2	↓
	Topaz Energy Limited	1	•	3	↓	0	↑
	Total UK Ltd	0	↑	0	↑	1	•
0	BP Oil UK Limited	0	•	0	•	2	↓
	Chevron Limited	0	•	0	•	1	↓
	INEOS Europe Limited	0	•	0	•	n/a	n/a
	Morgan Stanley Capital Group Inc.	0	•	0	•	0	•
	Murco Petroleum Ltd	0	•	0	•	1	↓

<sup>1</sup> Obligated companies supply >95% of the biofuels in the UK market.

<sup>2</sup> The RTFO targets in Year 3 (2010/11) are to have:  
80% of biofuels meeting qualifying environmental standards;  
GHG savings of 50%; and  
90% data capture in four key sustainability fields (feedstocks, country of origin, previous land-use, standard).

<sup>3</sup> In the first RTFO reporting year, the fuel we reported in the name 'Ineos' (operator of the Grangemouth refinery) was owned by Morgan Stanley Capital Group at the duty point - making Morgan Stanley the legally obligated supplier, rather than Ineos itself

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### Trading of RTFCs

#### RTFCs traded per quarter by type of account holder

**Table 15.1 RTFCs traded from Obligation Year 2008/09**

<i>Quarter</i>	<i>Quarter (date)</i>	<i>From</i>	<i>To</i>	<i>RTFCs</i>	<i>%</i>
2	Jul 2008 - Oct 2008	Biofuel Supplier	Fossil Fuel Supplier	2,791,602	2%
		Fossil Fuel Supplier	Fossil Fuel Supplier	11,347,500	7%
3	Oct 2008 - Jan 2009	Biofuel Supplier	Fossil Fuel Supplier	809,000	0%
		Fossil Fuel Supplier	Fossil Fuel Supplier	17,538,750	10%
4	Jan 2009 - Apr 2009	Biofuel Supplier	Biofuel Supplier	3,063,335	2%
			Fossil Fuel Supplier	1,883,310	1%
			Other	10,000	0%
		Fossil Fuel Supplier	Biofuel Supplier	1,175,000	1%
			Fossil Fuel Supplier	16,601,408	10%
			Other	10,000	0%
		Other	Biofuel Supplier	10,000	0%
			Fossil Fuel Supplier	10,000	0%
5	Apr 2009 - Jul 2009	Biofuel Supplier	Biofuel Supplier	83,812	0%
			Fossil Fuel Supplier	830,000	0%
		Fossil Fuel Supplier	Fossil Fuel Supplier	75,625,694	45%
6	Jul 2009 - Oct 2009	Fossil Fuel Supplier	Fossil Fuel Supplier	32,395,869	19%
7	Oct 2009 - Jan 2010	Fossil Fuel Supplier	Fossil Fuel Supplier	1,779,869	1%
8	Jan 2010 - Apr 2010	Fossil Fuel Supplier	Fossil Fuel Supplier	482,516	0%
9	Apr 2010 - Jul 2010	Fossil Fuel Supplier	Fossil Fuel Supplier	381,292	0%
10	Jul 2010 - Oct 2010	Fossil Fuel Supplier	Fossil Fuel Supplier	2,182,910	1%
<b>Grand Total</b>				<b>169,011,867</b>	<b>100%</b>

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### Trading of RTFCs

#### RTFCs traded per quarter by type of account holder

**Table 15.2 RTFCs traded from Obligation Year 2009/10**

<i>Quarter</i>	<i>Quarter (date)</i>	<i>From</i>	<i>To</i>	<i>RTFCs</i>	<i>%</i>
6	Jul 2009 - Oct 2009	Biofuel Supplier	Biofuel Supplier	309,980	0%
			Fossil Fuel Supplier	97,950	0%
		Fossil Fuel Supplier	Fossil Fuel Supplier	6,580,808	2%
7	Oct 2009 - Jan 2010	Biofuel Supplier	Biofuel Supplier	295,010	0%
			Fossil Fuel Supplier	1,743,960	0%
			Other	388,179	0%
		Fossil Fuel Supplier	Fossil Fuel Supplier	29,383,440	8%
		Other	Fossil Fuel Supplier	388,179	0%
8	Jan 2010 - Apr 2010	Biofuel Supplier	Biofuel Supplier	297,016	0%
			Fossil Fuel Supplier	2,143,955	1%
			Other	167,949	0%
		Fossil Fuel Supplier	Fossil Fuel Supplier	85,516,261	24%
		Other	Fossil Fuel Supplier	167,949	0%
9	Apr 2010 - Jul 2010	Biofuel Supplier	Fossil Fuel Supplier	18,157,547	5%
			Other	442,404	0%
		Fossil Fuel Supplier	Fossil Fuel Supplier	57,678,763	16%
			Other	5,000,000	1%
		Other	Fossil Fuel Supplier	5,442,374	2%
10	Jul 2010 - Oct 2010	Biofuel Supplier	Fossil Fuel Supplier	11,199,636	3%
			Other	950,224	0%
		Fossil Fuel Supplier	Fossil Fuel Supplier	40,912,731	11%
			Other	6,300,000	2%
		Other	Fossil Fuel Supplier	7,340,210	2%

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### Trading of RTFCs

			Other	89,986	0%
11	<i>Oct 2010 - Jan 2011</i>	Biofuel Supplier	Fossil Fuel Supplier	673,064	0%
			Other	72,576	0%
		Fossil Fuel Supplier	Fossil Fuel Supplier	35,339,860	10%
			Other	3,100,000	1%
		Other	Fossil Fuel Supplier	3,172,576	1%
12	<i>Jan 2011 - Apr 2011</i>	Fossil Fuel Supplier	Fossil Fuel Supplier	14,758,963	4%
			Other	500,000	0%
		Other	Fossil Fuel Supplier	500,000	0%
13	<i>Apr 2011 - Jul 2011</i>	Fossil Fuel Supplier	Fossil Fuel Supplier	21,201,291	6%
<b>Grand Total</b>				<b>360,312,841</b>	<b>100%</b>

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### Trading of RTFCs

#### RTFCs traded per quarter by type of account holder

**Table 15.3 RTFCs traded from Obligation Year 2010/11**

Quarter	Quarter (date)	From	To	RTFCs	%
10	Jul 2010 - Oct 2010	Biofuel Supplier	Biofuel Supplier	89,986	0%
			Fossil Fuel Supplier	500,000	0%
			Other	1,131,371	0%
		Fossil Fuel Supplier	Fossil Fuel Supplier	58,451,442	9%
			Other	29,058	0%
		Other	Biofuel Supplier	542,215	0%
	Fossil Fuel Supplier	528,228	0%		
11	Oct 2010 - Jan 2011	Biofuel Supplier	Fossil Fuel Supplier	5,146,444	1%
			Other	867,448	0%
		Fossil Fuel Supplier	Fossil Fuel Supplier	169,396,063	25%
			Other	1,012,940	0%
		Other	Fossil Fuel Supplier	1,880,388	0%
		12	Jan 2011 - Apr 2011	Biofuel Supplier	Fossil Fuel Supplier
Other	709,189				0%
Fossil Fuel Supplier	Biofuel Supplier			10,000	0%
	Fossil Fuel Supplier			175,749,837	26%
	Other			8,000,000	1%
Other	Fossil Fuel Supplier			8,705,099	1%
13	Apr 2011 - Jul 2011	Biofuel Supplier	Fossil Fuel Supplier	23,837,261	4%
			Other	590,647	0%
		Fossil Fuel Supplier	Fossil Fuel Supplier	199,876,837	30%
			Other	1,000,000	0%
		Other	Fossil Fuel Supplier	1,594,647	0%
		14	Jul 2011 - Oct 2011	Fossil Fuel Supplier	Fossil Fuel Supplier
Grand Total				665,655,778	100%

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### Trading of RTFCs

#### RTFCs traded per quarter by type of account holder

Table 15.4 RTFCs traded from Obligation Year 2011/12

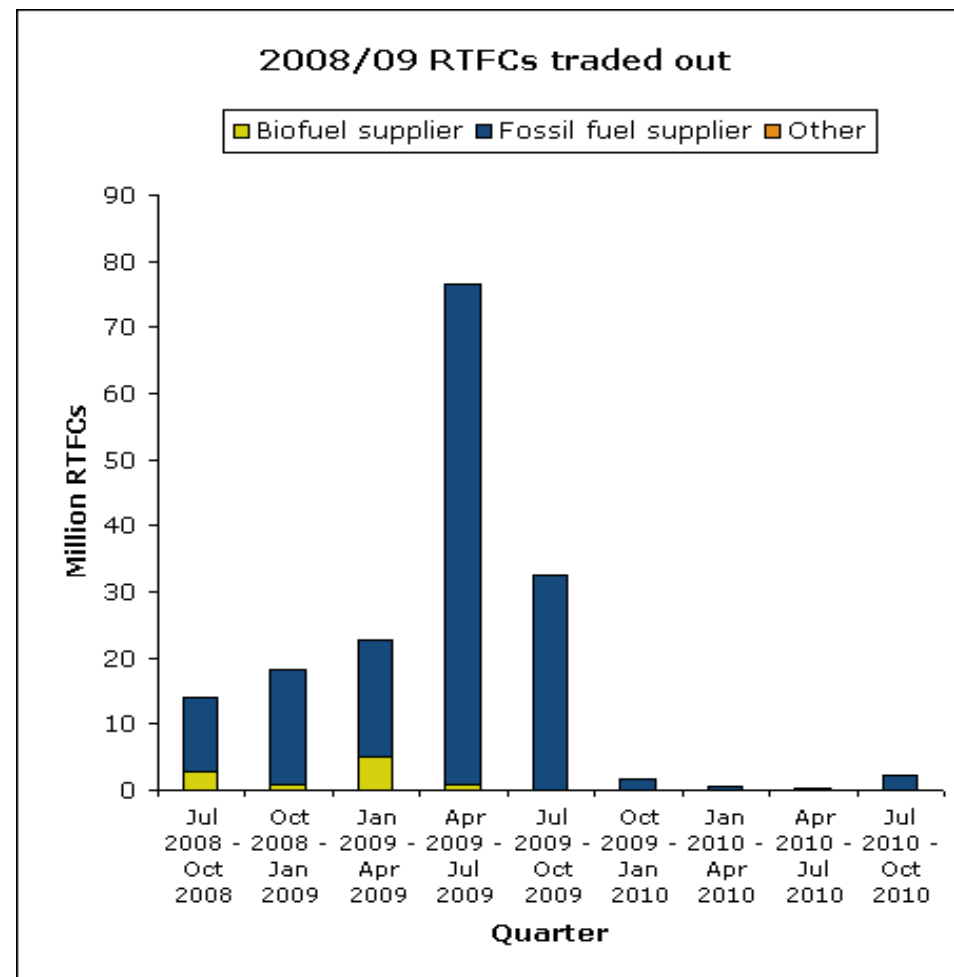
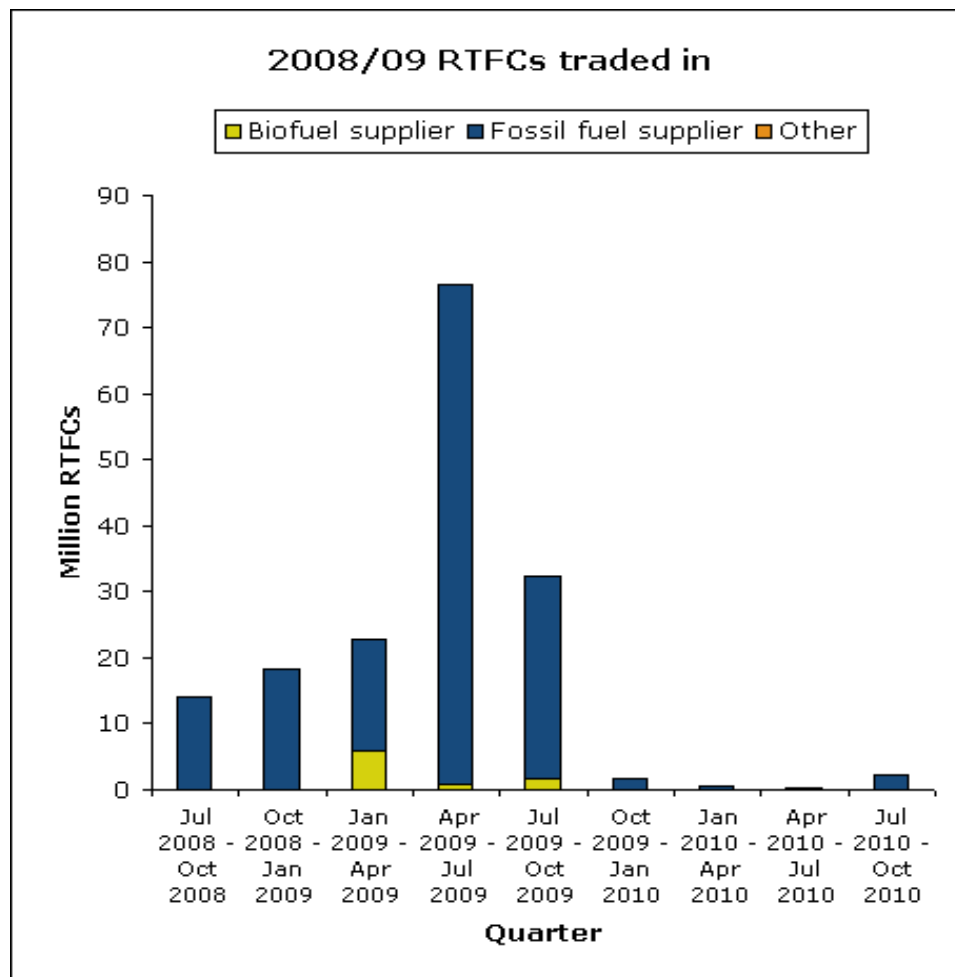
<i>Quarter</i>	<i>FROM</i>	<i>FROM</i>	<i>TO</i>	<i>RTFCs</i>	<i>%</i>
14	Jul 2011 - Oct 2011	Fossil Fuel Supplier	Fossil Fuel Supplier	4,000,000	100%
<b>Grand Total</b>				<b>4,000,000</b>	<b>100%</b>



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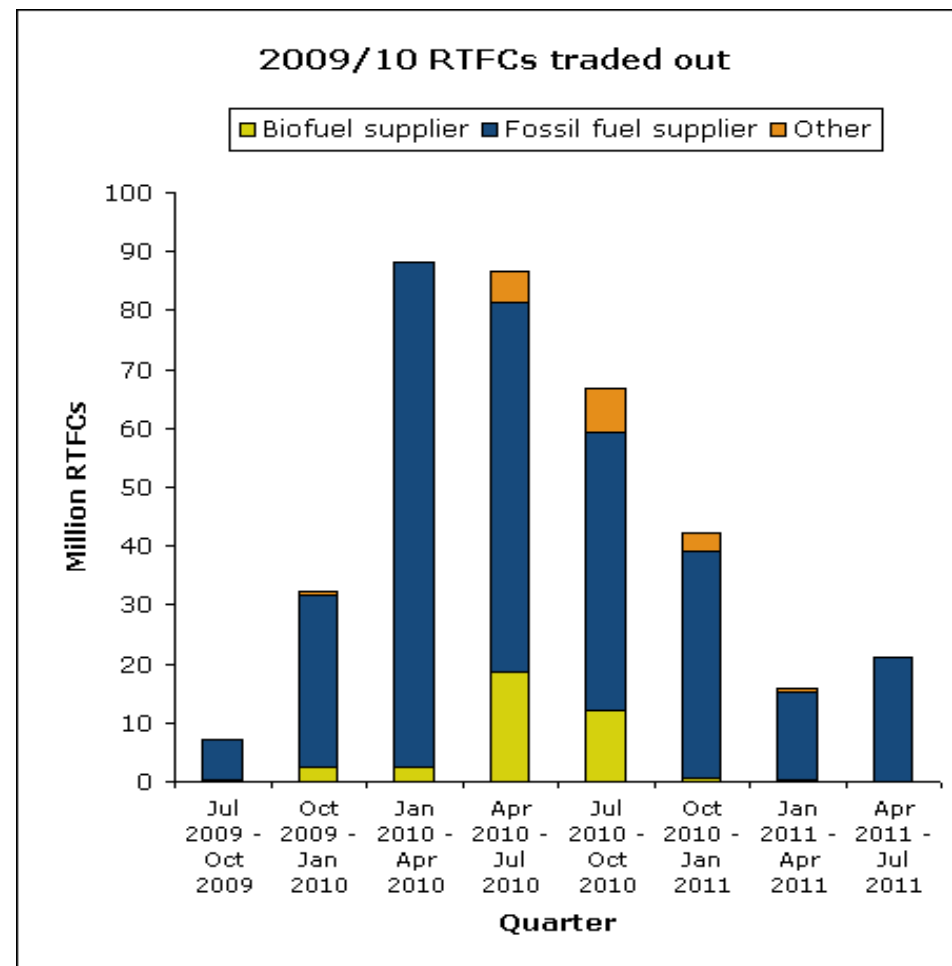
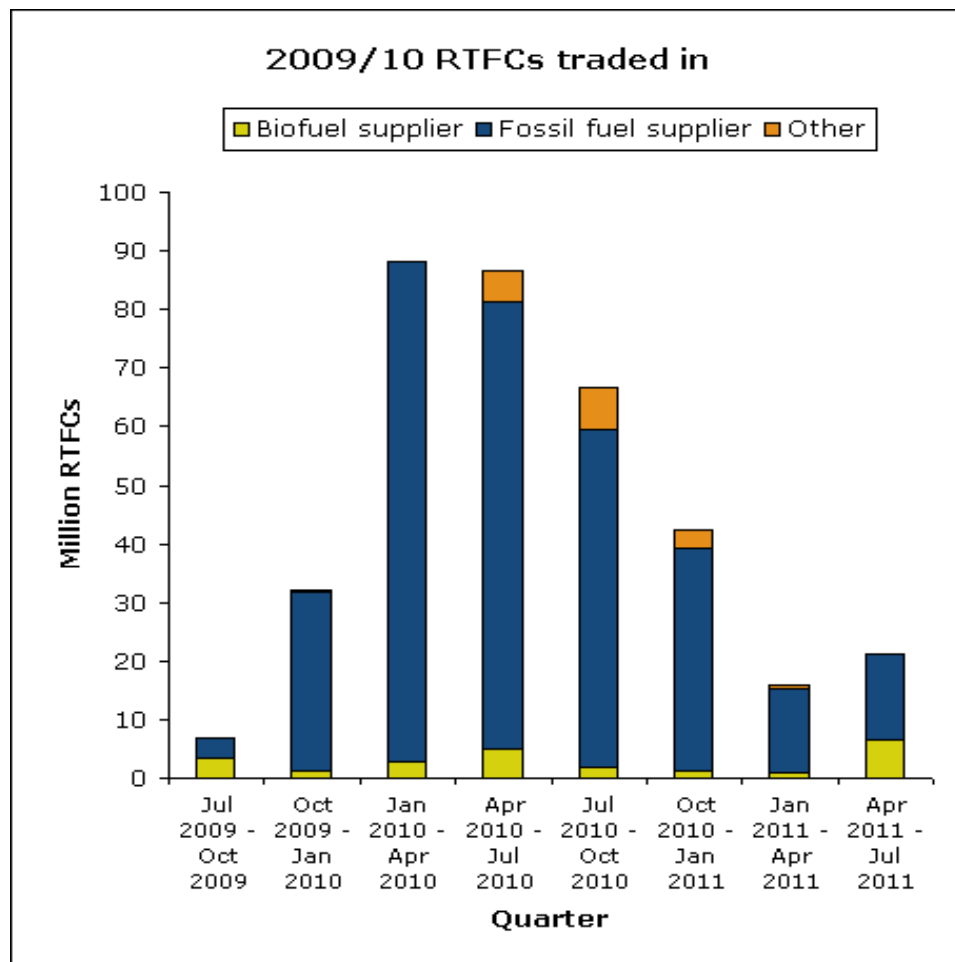
### Trading of RTFCs



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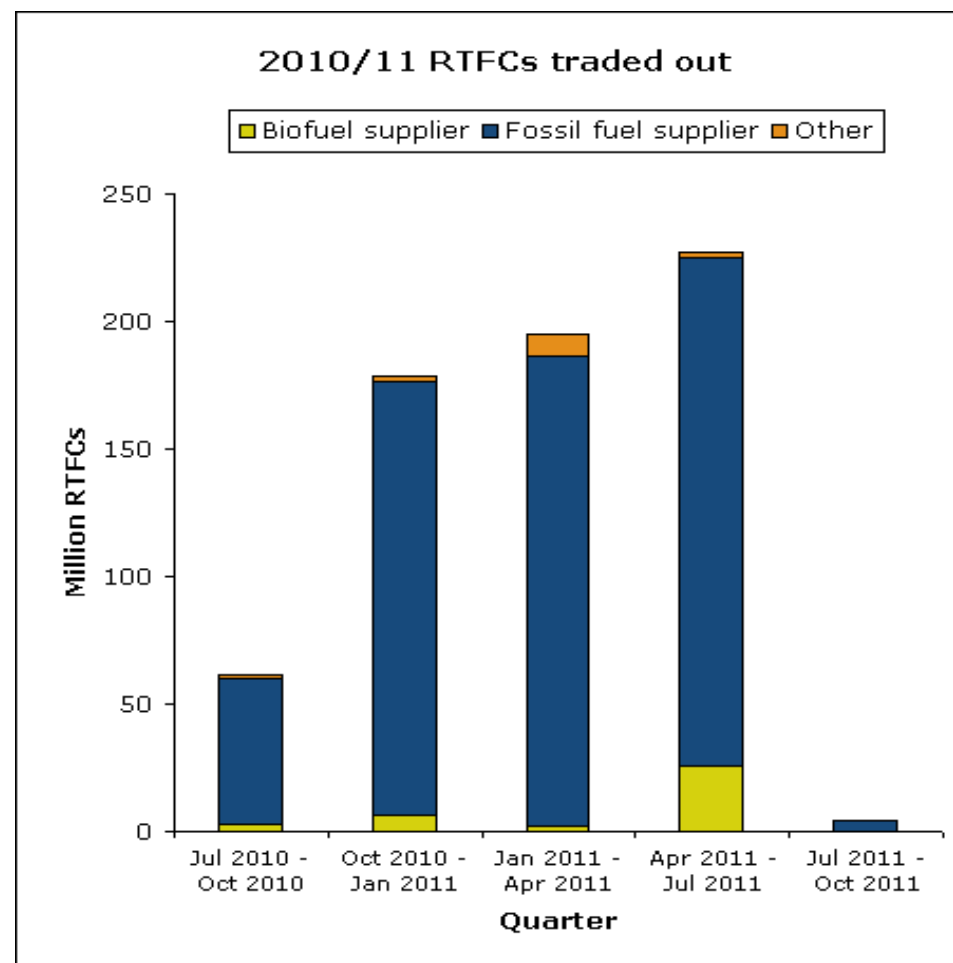
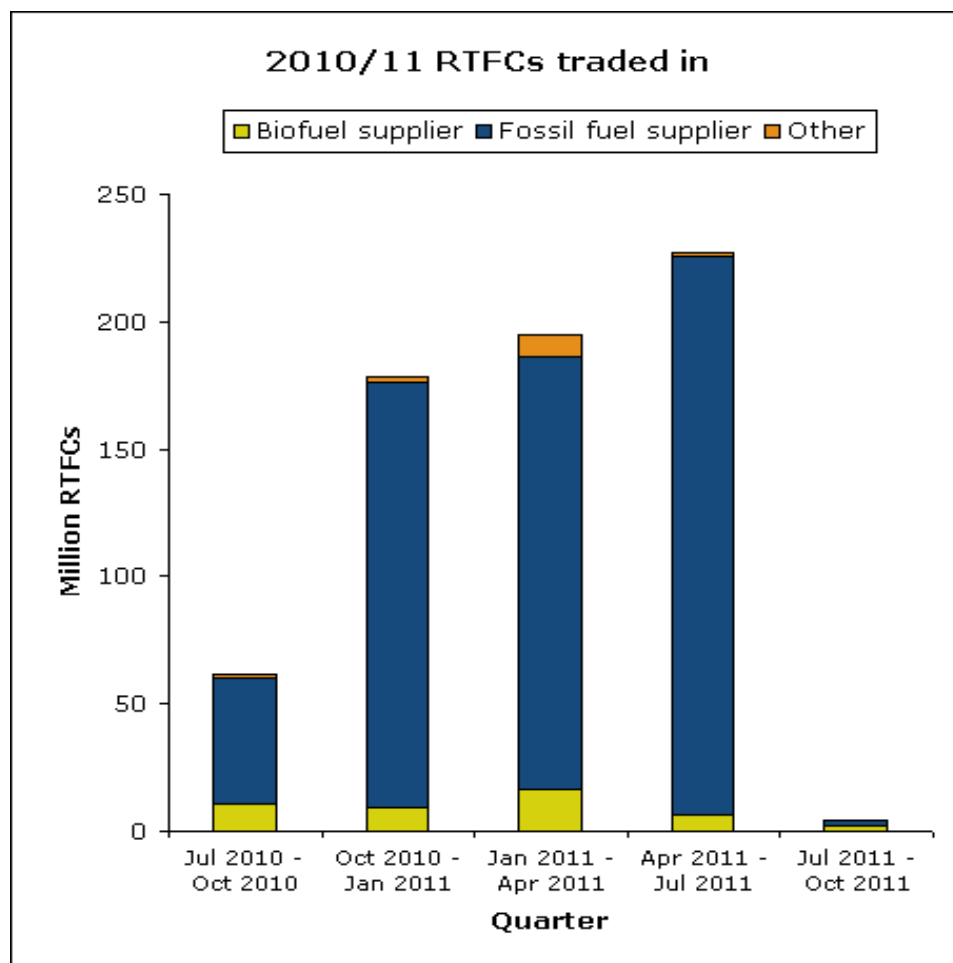
### Trading of RTFCs



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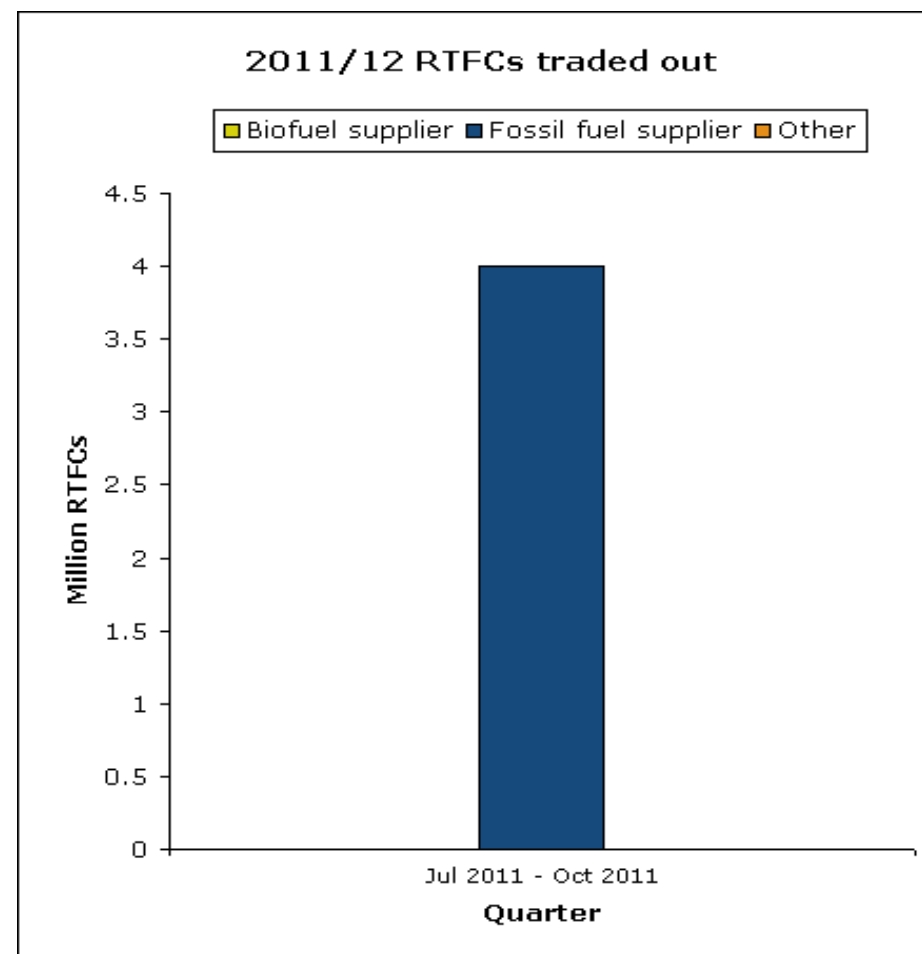
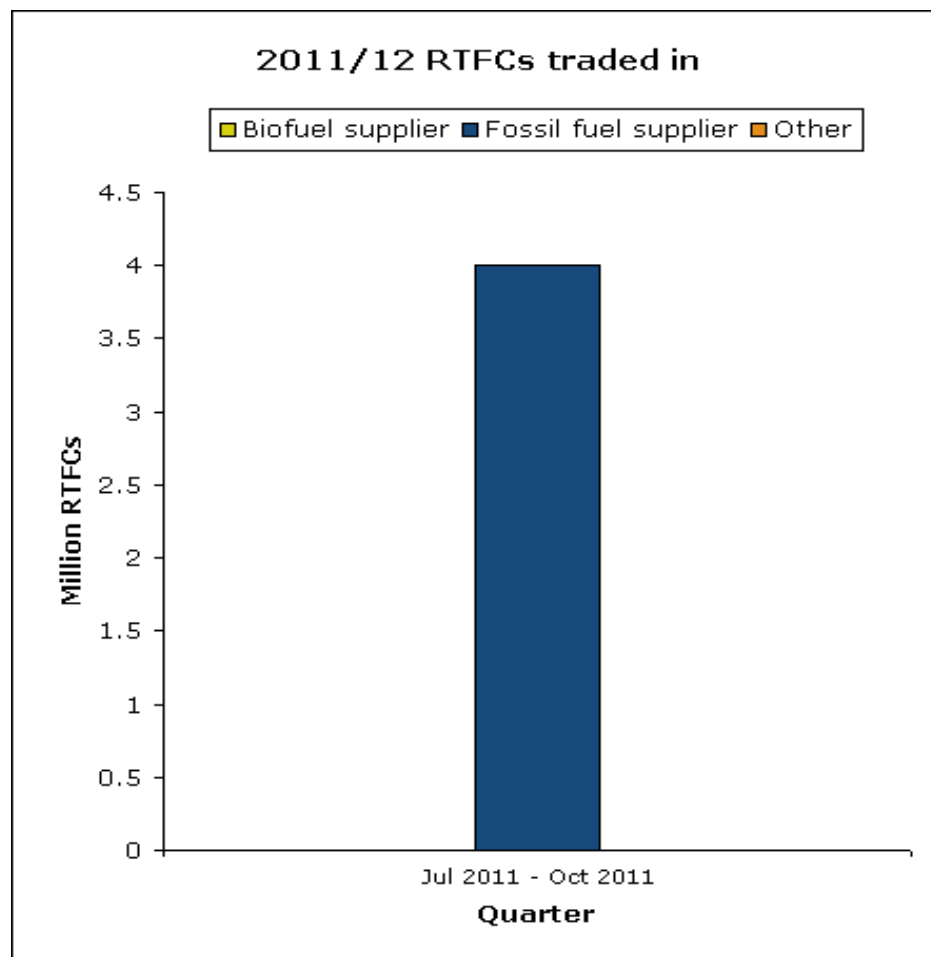
### Trading of RTFCs



## RTFO Quarterly Report 12: 15 April 2010 - 14 April 2011

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### Trading of RTFCs

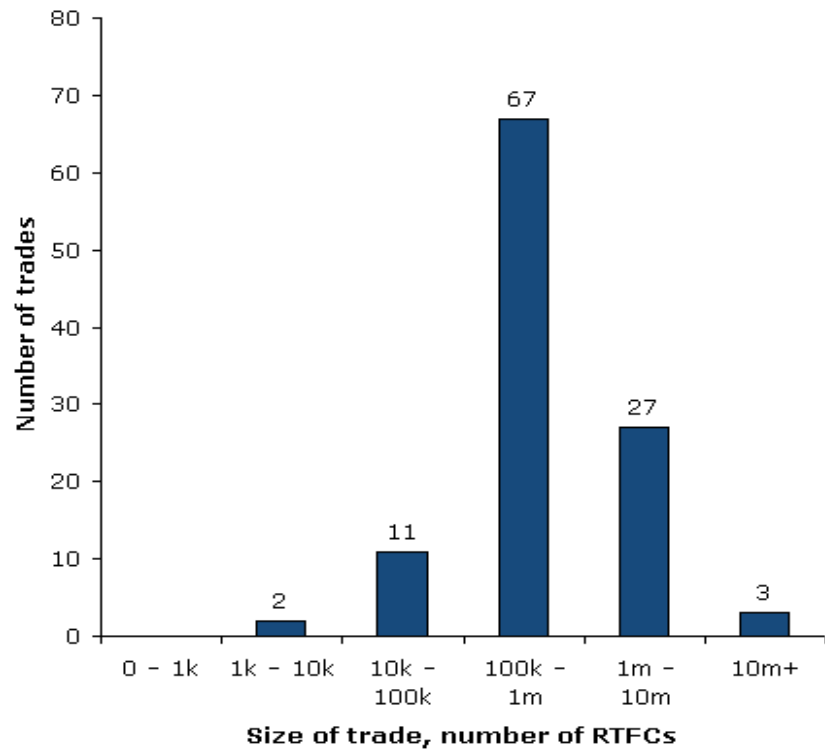


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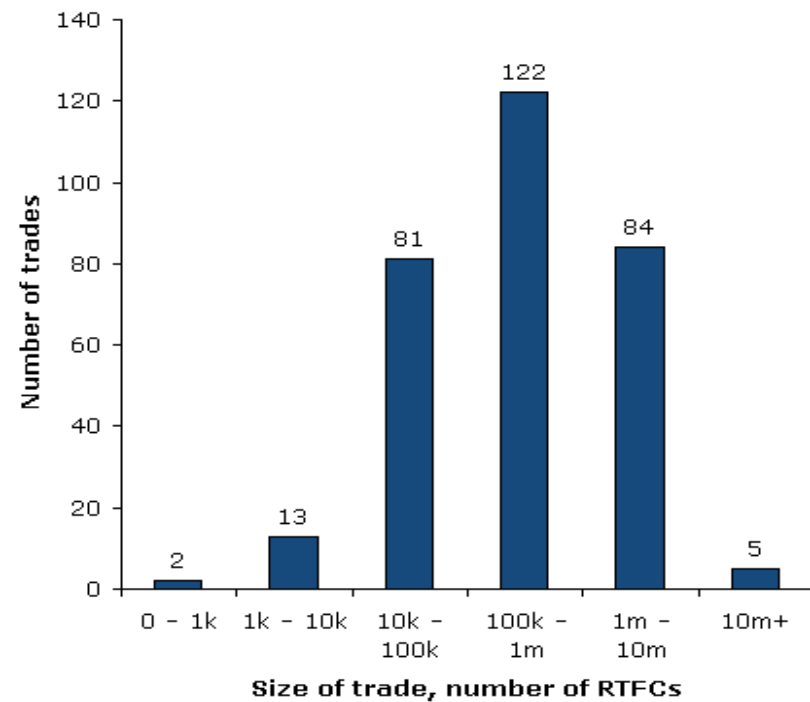
Provisional data for the 2010/11 obligation year to date

### Trading of RTFCs

Size of RTFC trades - 2008/09 RTFCs



Size of RTFC trades - 2009/10 RTFCs

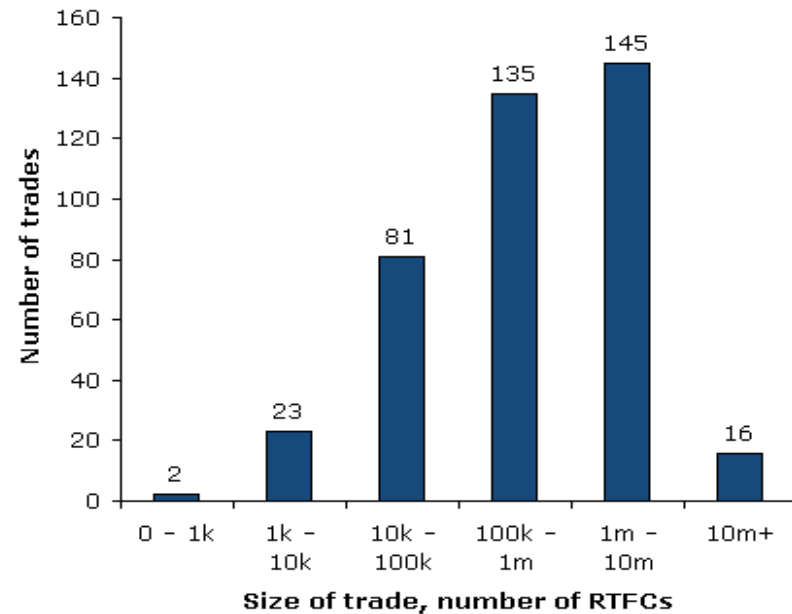


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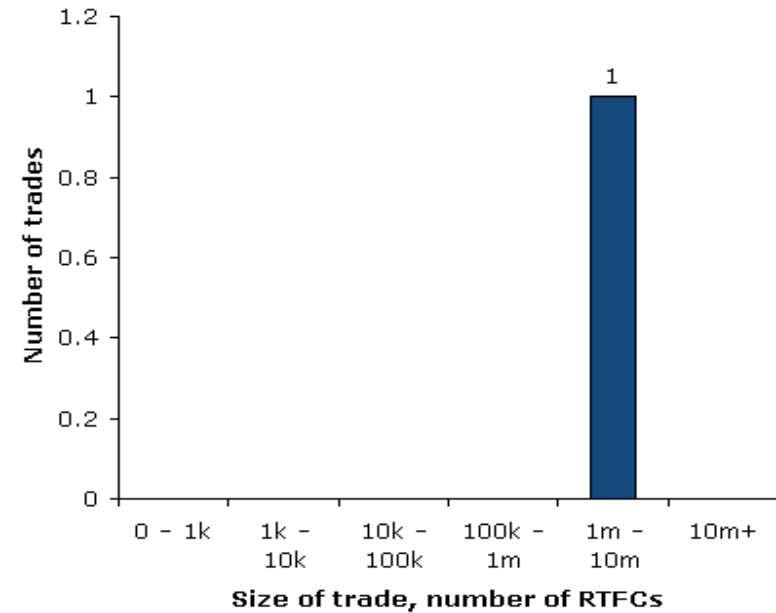
Provisional data for the 2010/11 obligation year to date

### Trading of RTFCs

Size of RTFC trades - 2010/11 RTFCs



Size of RTFC trades - 2011/12 RTFCs



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### Notes on data

#### Introduction

To encourage the sourcing of sustainable biofuels, the RTFO Administrator requires fuel suppliers claiming Renewable Transport Fuel Certificates to submit monthly reports on the lifecycle greenhouse gas (GHG) saving and the sustainability of the biofuels they supply.

Reporting is also seen by the Government as an essential 'stepping stone' towards a mandatory assurance scheme. The EU's Renewable Energy Directive includes mandatory sustainability requirements. The Department for Transport expects to transpose the directive into UK law in 2011.

This report provides information on the carbon and sustainability performance of renewable fuels supplied under the RTFO. The data are derived from the monthly reports on biofuels provided by individual fuel suppliers. At the end of the reporting year<sup>1</sup> fuel suppliers are required to provide an independent verifier's opinion<sup>2</sup> on their information, and this verified information will be published.

The carbon and sustainability data cover the *direct* impacts arising from biofuel cultivation. The RTFO Administrator separately monitors the potential *indirect* impacts of biofuel production such as indirect land-use change or changes to food and other commodity prices (e.g. *The Gallagher Review of the indirect effects of biofuels production* which was published on 8 July 2008).

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### **Notes on data**

#### **Sustainability and the RTFO Meta-Standard**

The RTFO is built around seven sustainability principles; five environmental and two social. These seven principles have been used to define the RTFO Sustainability Meta-Standard. A meta-standard approach enables existing schemes, such as the UK's Assured Combinable Crops Scheme (ACCS), to be assessed against the RTFO principles.

No schemes currently meet all of the environmental and social principles; although two schemes meet both of the social principles. Suppliers are also permitted to set up their own auditing procedures to demonstrate that feedstocks meet the RTFO Meta-Standard: two suppliers have developed interpretations of the RTFO Meta-Standard which cover Brazilian sugar cane and cereal crops.

Any scheme that meets an adequate number of the RTFO Meta-Standard criteria is considered a 'qualifying standard', and fuel companies can report these to the RTFO Administrator. Fuels from wastes (e.g. used cooking oil and tallow<sup>3</sup>) are automatically considered to meet the qualifying level.

Other standards can also be reported to the RTFO Administrator and count towards the data capture target; these include standards that have not yet been benchmarked against the RTFO Meta-Standard, or standards that have been benchmarked, but do not meet sufficient criteria to be awarded the qualifying level status.

While there are currently several qualifying standards for the RTFO, these are mostly either under development or only newly established; the ACCS is the only well established certification scheme, and is only applicable to UK crops. This currently limits the ability of fuel suppliers to source certifiably sustainable feedstocks<sup>4</sup>. The market is developing, and suppliers have been putting in place procedures to track information about sustainability through their supply chains and others have been performing their own audits against the Meta-Standard. It is intended that by creating a market for sustainable crops, the RTFO will support the development and expansion of these certification schemes, and that suppliers will be able to source their feedstocks increasingly sustainably.



## **RTFO Quarterly Report 12: 15 April 2010 - 14 April 2011**

Provisional data for the 2010/11 obligation year to date

### **Notes on data**

#### **Content of RTFO reports**

RTFO quarterly reports include information on:

- ˆvolumes of fuel by fuel type (e.g. biodiesel, bioethanol);
- ˆvolumes of fuel by feedstock (e.g. used cooking oil, soy);
- ˆvolumes of fuel by country of origin (e.g. UK, Brazil);
- ˆvolumes of fuel meeting sustainability standards;
- ˆlifecycle greenhouse gas savings of fuels.

#### RTFO summary data

Table 1 compares overall performance against the three C&S reporting targets set by the Government in 2007.

Tables 2 to 8 provide summaries of all the road transport biofuel supplied to the UK for each fuel type, feedstock, country of origin, and previous land-use.

Table 9 and 10 look into the data capture and accuracy of data collected

#### RTFO trends

Table 11 presents data on RTFO performance over time against the three target set by the Government in 2007.

#### RTFO detailed data

Table 12 provides more detailed data broken down by fuel type, feedstock, country of origin and previous land-use. So, for example, data are provided on the volumes of fuel and the C&S information of bioethanol from Brazilian sugar cane, or biodiesel obtained from oilseed rape grown in the UK on cropland, and also meeting a Qualifying Standard.

Quarterly reports also include additional information on:

- ˆcompany performance against the Government's carbon and sustainability (C&S) reporting targets;
- ˆtrades of renewable transport fuel certificates (RTFCs) between companies.

## RTFO Quarterly Report 12: 15 April 2010 - 14 April 2011

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### Notes on data

#### Company data

Table 13 provides data on company C&S performance. Table 14 specifies how many of the C&S reporting targets each of the obligated companies are meeting.

#### RTFCs

Contains data on trades of certificates between companies over time.

#### **C&S reporting targets**

The Government set C&S targets for three key aspects of the reporting scheme. The targets are not mandatory (and there is no penalty for failing to meet them). The RTFO targets recognise the need for, continuous improvement so that by obligation period 3 (2010-11) comprehensive sustainability data is provided for almost all biofuels supplied to the UK.

Annual Supplier Target	2008-09	2009-10	<b>2010-11</b>
Percentage of feedstock meeting a Qualifying Environmental Standard	30%	50%	<b>80%</b>
Annual GHG saving of fuel supplied	40%	45%	<b>50%</b>
Data reporting of renewable fuel characteristics	50%	70%	<b>90%</b>

## RTFO Quarterly Report 12: 15 April 2010 - 14 April 2011

Provisional data for the 2010/11 obligation year to date

### Notes on data

#### Provisional data

These data are based on information submitted monthly to the RTFO Administrator by fuel suppliers. If we have reason to believe that a piece of data may have been misreported we will challenge companies to check and if necessary revise their data. Where this process is ongoing, our reports are based on the data exactly as reported to us. The final verification<sup>2</sup> of these data occur annually (by 28 September 2011 for Year 3 of the RTFO).

Each Quarterly Report released by the RTFO Administrator will contain data from the reporting year<sup>1</sup> to date on biofuels entering the UK market from those companies that are registered with the RTFO Administrator.

The exact timing of the months that the data covers is different for major and minor fuel suppliers, due to the way they report data on volumes of fuel to HM Revenue and Customs (HMRC):

- Large fuel companies (typically fossil fuel suppliers) report to HMRC on a 15<sup>th</sup> to 14<sup>th</sup> of the month basis.
- Smaller fuel companies (typically biofuel suppliers) report by calendar month or quarter.

**Note that the data in this report are provisional and unverified and may change following publication. It is your responsibility to check you have the latest version - please check our website for updates**

#### Footnotes

<sup>1</sup>. The third reporting or obligation year runs from 15 April 2010 to 14 April 2011. This report contains data from 15 April 2010 to 14 April 2011.

<sup>2</sup>. Suppliers applying for < 450,000 renewable transport fuel certificates are not required to submit a verifier's opinion.

<sup>3</sup>. Research indicates there are indirect effects of tallow and other waste feedstocks with alternative uses:

<http://www.renewablefuelsagency.gov.uk/reportsandpublications/indirecteffectsofwastes>

<sup>4</sup>. There is more than enough Roundtable on Sustainable Palm Oil (RSPO) certified palm oil to meet the entire UK demand for palm oil biodiesel feedstock.

## RTFO Quarterly Report 12: 15 April 2010 - 14 April 2011

Provisional data for the 2010/11 obligation year to date

### Glossary

#### Obligated company

- An obligated company is one that supplies > 450,000 litres/year of relevant hydrocarbon oil road transport fuel
- Obligated companies supply > 95% of the biofuels in the UK market
- Obligated suppliers must:
  - supply biofuels; or
  - purchase certificates from other companies supplying biofuels; or
  - pay into a buy-out fund; or
  - a combination of any of the above.

#### Non-obligated company

- Non-obligated companies are those that either supply < 450,000 litres/year of relevant hydrocarbon oil road transport fuel, or only supply biofuels.
- Non-obligated companies are not required to register with us, but can choose to do so and earn one Renewable Transport Fuel Certificate (RTFC) for every litre of biofuel supplied.

#### Sustainability standards

- Sustainability assurance schemes are divided into Environmental and Social Standards and these are split into three levels:
  1. RTFO Meta-Standard (RTFO) - this is a higher standard than most existing sustainability standards and covers seven key environmental and social principles.
  2. Qualifying Standards (QS) - meet the majority of the environmental and/or social criteria defined under the RTFO Meta-Standard.
  3. Other Standards - these have either not yet been benchmarked, or have been benchmarked against the RTFO Meta-Standard, but do not meet sufficient criteria to be awarded QS status.
- None/unknown should be reported where the feedstock was not certified against a standard, or the data is unavailable.
- Suppliers can report a Benchmarked or Qualifying Standard and conduct supplementary audits to meet a QS or the RTFO Meta-Standard, respectively.
- Suppliers producing biofuels from by-products have little or no control over how the source feedstocks were produced. Biofuels from by-products are automatically credited to the Qualifying Standard.

## **RTFO Quarterly Report 12: 15 April 2010 - 14 April 2011**

Provisional data for the 2010/11 obligation year to date

### **Glossary**

#### **Previous land-use**

~This is the use of the land on which the feedstock crop was grown prior to 1 Jan 2008. There are sixteen categories:

1. by-products;
2. cropland - protection status unknown;
3. cropland - non protected;
4. cropland - protected;
5. degraded land;
6. forest >30%;
7. forest >30% no change in status;
8. forest 10-30%;
9. forest 10-30% no change in status;
10. grassland (and other wooded land not classified as forest) with agricultural land;
11. grassland (and other wooded land not classified as forest) without agricultural land;
12. undrained peatland;
13. undrained peatland - no change in status;
14. wetland;
15. wetland - no change in status;
16. unknown

~By-products (e.g. used cooking oil and tallow) do not require any additional land.

- The previous land-use affects greenhouse gas emissions due to release of carbon stored in the soil and plants when the land is cleared and ploughed up for biofuel crops.

#### **Carbon intensity**

- Carbon intensity is a measure of the greenhouse gas (GHG) emissions of the fuel chain from 'field-to-wheel'

~Different GHGs have different potencies (some make a greater contribution to global warming than others)

- To account for this, all GHGs are expressed in terms of their strength relative to carbon dioxide, called carbon dioxide equivalent (CO<sub>2</sub>e).

#### **Greenhouse gas emissions**

- Greenhouse gas (GHG) emissions of different biofuels can vary significantly depending on the system of cultivation, processing, and transportation of feedstock.

- The data collected takes into account GHG emissions of the fuel chain from 'field to wheel' incorporating data on feedstock, country of origin and land-use change.

- GHG saving refers to the reduction in GHG emissions due to replacing fossil fuels with biofuels. A negative value means that more GHGs have been emitted by using the biofuel than if the fossil fuel was used.

## RTFO Quarterly Report 12: 15 April 2010 - 14 April 2011

Provisional data for the 2010/11 obligation year to date

### Glossary

#### Accuracy level

- Accuracy level is a measure of the amount of data provided by the supplier on a particular batch of biofuels
- This data is used for calculation of the greenhouse gas emissions of the fuel chain
- It ranges from 0 to 6 where 6 is the highest:
  - 0 - Fuel default
  - 1 - Feedstock default
  - 2 - Process default
  - 3 - Selected default - RTFO Administrator defined
  - 4 - Selected default - Industry defined or NUTS2 data
  - 5 - Actual data
  - 6 - Cultivation actual data

#### C&S reporting targets

The Government set C&S targets for three key aspects of the reporting scheme. The targets are not mandatory (and there is no penalty for failing to meet them).

Annual Supplier Target	2008-09	2009-10	2010-11
Percentage of feedstock meeting a Qualifying Environmental Standard	30%	50%	<b>80%</b>
Annual GHG saving of fuel supplied	40%	45%	<b>50%</b>
Data reporting of renewable fuel characteristics	50%	70%	<b>90%</b>

- The data reporting of renewable fuel characteristics target refers to the amount of data provided by transport fuel suppliers as opposed to reporting 'unknown' against the four sustainability components:
  1. biofuel feedstock
  2. feedstock country of origin
  3. sustainability standard
  4. land-use on 23 January 2008
- Whilst 'unknown' reporting is permitted, suppliers are encouraged to identify and report accurate information about the feedstocks used. Where 'unknown' or 'none' is reported this does not count towards the data capture target.
- Where a by-product has been used as the feedstock, reporting 'by-product' for the sustainability information fields is counted as a completed report.
- Reporting a non-Qualifying Standard is also counted as a completed data field for the 'standard' field