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THE FRENCH REPUBLIC

## NOTE FROM THE FRENCH AUTHORITIES

**SUBJECT: Report assessing actions taken to promote biofuels in France in 2008.**

**Ref.: Article 4(1) of Directive 2003/30/EC on the promotion of the use of biofuels.**

The French authorities hereby submit to the European Commission the report by France provided for in Article 4(1) of Directive 2003/30/EC.

### **1. An ambitious French policy**

**France has been encouraging the routine use of biofuels for more than ten years by incorporating them into fuels or domestic heating oil in such a way that users do not need to modify their engines.**

To facilitate this, two sectors, the agricultural ethanol sector for petrol and the vegetable oils sector for diesel, have developed processed products with characteristics similar to those of the fuels or domestic heating oil with which they can be blended:

- ETBE (ethyl-tertio-butyl-ether), made from agricultural ethanol (wheat or beetroot), can be incorporated into petrols in a proportion of 15%,
- pure ethanol can be incorporated directly into petrol up to a proportion of 5%,
- VOME (vegetable oil methyl-esters), made from rapeseed or sunflower oil, can be incorporated into diesels in a proportion of 5% until 31 December 2007 and a proportion of 7% from 1 January 2008.<sup>1</sup>

#### **1.1. The French biofuels plan**

Further to the first measures announced in 2004 which enabled the indicative targets contained in Directive 2003/30/EC to be met, on 13 September 2005 the Prime Minister unveiled ambitious measures to encourage the production of biofuels and to accelerate their development. Consequently, the target to include 5.75%<sub>NCV</sub> of biofuels in fuels, initially scheduled for 2010 in Directive 2003/30/EC, has been brought forward to 2008 and increased to 7%<sub>NCV</sub> in 2010.

These targets were incorporated into Law No 2005-781 of 13 July 2005 in a programme laying out the French energy policy guidelines (as modified by Law No 2006-11 of 5 January 2006 on agricultural guidelines) which sets the targets of 5.75%<sub>NCV</sub> in 2008 and 7%<sub>NCV</sub> in 2010, and the indicative target of 10%<sub>NCV</sub> in 2015 as the basis for the development of biofuels.

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<sup>1</sup> Decree of 27 April 2007 modifying the characteristics of diesel and diesel fuel for very cold weather (Official Gazette of 11 May 2007).

The following are the French annual targets for incorporation of biofuels:

	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>
<b>Targets</b>	1.20 % <sub>NCV</sub>	1.75 % <sub>NCV</sub>	3.50 % <sub>NCV</sub>	5.75 % <sub>NCV</sub>	6.25 % <sub>NCV</sub>	7.00 % <sub>NCV</sub>

## **1.2. Environmental assessment of biofuels**

Nevertheless, as the debates at the Grenelle Environment Forum have shown, biofuels must demonstrate both their energy and environmental performance. A working group has therefore been set up consisting of the French Petroleum Institute (IFP), the Agency for the Environment and Energy Management (ADEME) and the government departments responsible, to conduct a critical analysis and update existing studies relating to energy and environmental assessments of first-generation biofuels. This study, launched in the summer of 2008, is due for completion after summer 2009.

In parallel, the President of the Republic has specified that the policy of supporting biofuels must continue to be pursued without any questioning of the commitments already made, and that priority must be given to improving energy and environmental assessments, in particular by developing second-generation biofuels, which will enable more diverse raw materials to be developed and competition with production for foodstuffs to be restricted.

The parameters of the French biofuels plan must be examined after this work has been carried out.

## **1.3. The General Tax on Polluting Activities (TGAP)<sup>2</sup>**

Article 32 of the Finance Law 2005 introduced a General Tax on Polluting Activities (TGAP) for biofuels, aimed at encouraging oil companies and distributors to incorporate a certain percentage of biofuels into the fuels made available for consumption in France. Operators (refiners, wholesalers and independent operators) who make available for consumption fuels with a proportion of biofuels below the national incorporation targets provided for must pay a penalty proportionate to the percentage of biofuels they have not incorporated. The amount of this TGAP is a very considerable incentive. This tax concerns both the premium-grade petrol and diesel.

## **1.4. Tax exemption**

In order to meet these ambitious targets the government has maintained the system of partial tax exemption for the internal consumption tax (TIC) which allows for the offsetting of the additional cost of manufacturing biofuels in comparison with fossil fuels. This tax exemption is granted to biofuels produced by units which have received a licence further to a call for tender published in the Official Journal of the European Union. The amounts are adjusted each year on the basis of the Finance Law in order to take into account developments in economic conditions.

The changes in tax exemption amounts, as set in accordance with the Finance Law, are shown in the table below:

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<sup>2</sup> The TGAP is not applied in the overseas territories, primarily because the opportunities to produce biofuels in these territories are currently very limited.

	<b>Diesel sector<sup>3</sup></b>			<b>Petrol sector</b>	
	Vegetable oil methyl-esters	Biodiesel blends	Vegetable oil ethyl-esters	Ethanol <sup>4</sup>	ETBE <sup>5</sup>
<b>2004</b>	33 €/hl	-	-	37 €/hl	38 €/hl
<b>2005</b>	33 €/hl	-	-	37 €/hl	38 €/hl
<b>2006</b>	25 €/hl	25 €/hl	30 €/hl	33 €/hl	33 €/hl
<b>2007</b>	25 €/hl	25 €/hl	30 €/hl	33 €/hl	33 €/hl
<b>2008</b>	<b>22 €/hl</b>	<b>22 €/hl</b>	<b>27 €/hl</b>	<b>27 €/hl</b>	<b>27 €/hl</b>
<b>2009</b>	15 €/hl	15 €/hl	21 €/hl	21 €/hl	21 €/hl
<b>2010</b>	11 €/hl	11 €/hl	18 €/hl	18 €/hl	18 €/hl
<b>2011</b>	8 €/hl	8 €/hl	14 €/hl	14 €/hl	14 €/hl

The tax exemption from which biofuels benefit is represented by the amounts summarised in the table below:

<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>
196 M€	260 M€	500 M€	790 M€

In 2006 additional licences were granted to allow the biofuel incorporation targets to be met by 2010.

The following table shows the total quantities authorised which were entitled to a tax exemption for the three sectors operating in France:

<i>10<sup>3</sup> tonnes</i>	<b>VOME</b>	<b>ETBE<sup>6</sup></b>	<b>Ethanol</b>
<b>2004</b>	401	99	12
<b>2005</b>	417	130	72
<b>2006</b>	677	169	137
<b>2007</b>	1 343	224	337
<b>2008</b>	2 478	224	717
<b>2009</b>	2 728	224	867
<b>2010</b>	3 148	224	867

## **2. Fuels with a high biofuels content**

### **2.1. Super ethanol (E85)<sup>7</sup>**

All the conditions were put in place to authorise the sale of 'super ethanol' throughout the whole territory for professionals and private individuals from 1 January 2007. Therefore

<sup>3</sup> The new biofuels, biodiesel blends, animal oil esters and vegetable oil esters, are entered into the accounts under the General Tax on Polluting Activities (TGAP).

<sup>4</sup> In 2004, for the first year, ethanol incorporated directly into petrol has benefited from a tax exemption.

<sup>5</sup> ETBE contains 47% ethanol, this part is eligible for tax exemption.

<sup>6</sup> Only the ethanol used in the production of ETBE has been taken into account, the fossil part is not eligible for tax exemption.

<sup>7</sup> Fuel containing between 65%<sub>v</sub> and 85%<sub>v</sub> of ethanol according to the season.

super ethanol is eligible for a beneficial rate of tax of 28.33 €/hl (instead of 33.43 €/hl in 2007) which currently enables this fuel to be sold at a price of 0.80 to 0.85 €/l. Article 65 of Amending Finance Law No 2007-1824 of 25 December 2007 amends domestic consumption tax on super ethanol (E85), therefore the tax benefit remains constant despite the reduction in the tax exemption for bioethanol.

Lastly, to facilitate and accelerate the development of this sector additional favourable tax measures have been adopted: the granting of amortisation over 12 months, a tax reduction on company cars over eight quarters, and a 50% exemption on the additional tax for registration certificates.

More than 320 service stations currently sell this fuel. This sector is currently still in its start-up phase and is growing in significance. Moreover, significant investments are being made at fuel storage depots and service stations.

## **2.2. Diesel B30 and PVO (pure vegetable oils)**

Diesel B30, a diesel with a proportion of 30% of vegetable oil methyl-esters, is authorised for captive fleets with dedicated fuel logistics. This fuel is not on sale to the general public because it is not compatible with the engines of many diesel vehicles which are already on the road in Europe. This new fuel is currently being standardised by the Petrol Standardisation Office (BNPé).

Article 49 of Law No 2006-11 of 5 January 2006 on agricultural guidelines authorises the use, as an agricultural fuel, of pure vegetable oil by operators having produced plants whose oil is pressed for an experimental period of one year. From 2007, this fuel has been authorised for sale as an agricultural fuel.

Since 1 January 2007, all local authorities who so request may experiment with using pure vegetable oils (PVO), either alone or in blends, in their vehicles which are not intended for use as public transport. In order to do so, however, they must sign a protocol with the government specifying the user obligations in terms of monitoring vehicles and carrying out regular checks. The use of PVOs gives rise to many reservations on the part of motor vehicle and agricultural machine manufacturers, the majority of whom refuse to endorse their use.

## **3. Consumption of fuels and biofuels in France since 2006**

Changes in French consumption of biofuels are shown below:

<i>10<sup>3</sup> tonnes</i>	<b>Vegetable oil methyl-esters</b>	<b>ETBE<sup>8</sup></b>	<b>Ethanol</b>
<b>2006</b>	631	146	94
<b>2007</b>	1300	189	232
<b>2008</b>	2 100	215	375

A significant increase has been noted in the total consumption of biofuels during 2006 and this increase has been noted for the three sectors.

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<sup>8</sup> Quantities are shown in tonnes of ETBE, but only include ethanol used in the production of ETBE; the fossil fuel part is not eligible for tax exemption.

The change in the actual percentages of biofuels incorporated into petrol and diesel are as follows:

<i>%<sub>NCV</sub></i>	<b>Petrol sector</b>	<b>Diesel sector</b>	<b>Total incorporated</b>
<b>2006</b>	1.75 %	1.77 %	1.77 %
<b>2007</b>	3.35 %	3.63 %	3.57 %
<b>2008<sup>9</sup></b>	5.55 %	5.75 %	5.71 %

#### **4. National resources allocated to the production of biomass for energy purposes other than transportation**

The development of biomass (wood energy, agricultural biomass, municipal solid waste) as a source of energy must enable a contribution to be made to the ambitious targets laid down in the law in a programme laying out the French energy policy guidelines in terms of developing renewable energy between now and 2010, i.e. apart from fuels for transportation:

- an increase in the share of the production of electricity from a renewable source of 21% of the domestic electricity consumption;
- an increase of 50% in the production of renewable heat.

In 2007, biomass (including the incineration of refuse and biogas) contributed 4.1 TWh to the production of electricity and 9.1 Mtoe to the production of heat.

The principal support mechanisms which are currently in place are:

- the obligation to purchase electricity produced by installations using biomass for power ratings of below 12 MW;
- two calls for tender for biomass have been launched for electricity production, one in 2003 and the other in 2006. All of the projects accepted in the framework of these two calls for tender represent a power rating of more than 400 MW; in November 2008 France presented its National Renewable Energy Development Plan, providing for the launch in 2009 of a third call for tender for the production of electricity from biomass with a cumulative power of 250 MW;
- the National Renewable Energy Development Plan also provides for the creation of a 'Renewable Heat Fund' for financing calls for proposals for large biomass boiler projects and for granting investment aid for smaller-sized boilers or boilers connected to district heating networks. In this context, on 5 December 2008 ADEME issued a first national call for proposals for 'biomass heat in industry and agriculture' for heat production installations larger than 1 000 toe per year, with an indicative target of 100 000 toe;
- investment aid for collective wood heating allocated by ADEME in the framework of its Wood – Energy plan;
- a tax credit serving as an incentive for private individuals purchasing, for their main residence, equipment for the production of renewable energy, including wood heating equipment.

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<sup>9</sup> Figures based on a consumption of 38 Mm<sup>3</sup> of diesel and 12 Mm<sup>3</sup> of petrol.