

# FORD OF EUROPE FLEXIFUEL SALES UP 60 PER CENT

- 17.500 Ford Flexifuel vehicles sold across Europe
- Record sales underpin Ford's leading market position
- Renewable energy powered Flexifuel range to be extended in early 2008
- Part of Ford's broad range of affordable low-CO<sub>2</sub> vehicle solutions

**COLOGNE, February 11th, 2008** – Ford of Europe sold 17,500 bio-ethanol powered Flexifuel vehicles across Europe last year. This marks an increase of 60 per cent compared to the previous year and a sales record. In January, Ford had announced a sales record for 2007 across its entire European vehicle range (including Flexifuel), with a 5.4 per cent (93,500 units) increase to 1,833,600 units vs 2006.

"Our European sales record in 2007 confirms that our vehicles continue to attract more and more customers to the Ford brand. And I am more than delighted that our Flexifuel vehicles are part of that success," said Jan Brentebraten, director, Flexifuel / Alternative Fuel Vehicles Strategy, Marketing and Sales, Ford of Europe.

"We have every reason to be optimistic that our momentum will continue, as in early 2008 we will extend our existing Flexifuel range by adding three new models. Together with our brand-new Ford ECOnetic line of ultra-low CO2 conventional technology vehicles, this will give us one of the broadest ranges – and the customer a broad choice - of low CO<sub>2</sub>, yet affordable vehicles in Europe," he added.

The all-new Mondeo, the Ford Galaxy and the Ford S-MAX will be made available with Flexifuel powertrains from early 2008, and join the existing Focus and C-MAX Flexifuel line-up.

Ford is the market pioneer of flexible fuel vehicles (FFVs) in Europe where it has sold more than 45.000 Ford Flexifuel units since market introduction in Sweden seven years ago. Ford can also claim the largest owner body for FFVs in Europe as a result of this industry-leading initiative.

While the majority of these FFVs have been sold in Sweden, the two current models – the Ford Focus and C-MAX Flexifuel – have progressively been made available in 16 European markets, including Sweden, Germany, the UK, the Netherlands, Ireland, Austria, France, Spain, Switzerland, Norway, Belgium, Italy, Poland, Hungary, Czech Republic, and Denmark – with more likely to come.

All of Ford's Flexifuel vehicles can be fuelled with bio-ethanol E85 (a blend of 85 per cent bio-ethanol and 15 per cent petrol). Bio-ethanol fuel is available at a rapidly increasing number of fuel stations across Europe (currently, more than 1000 fuel stations offer E85 in Sweden; outside of Sweden, there are at least 375 E85 filling stations). And - as the name indicates - Ford Flexifuel vehicles can also be fuelled with petrol, or any mixture of E85 and petrol in the same tank, as an alternative to conventional petrol technology only.

The combined use of bio-ethanol as a fuel and Ford's Flexifuel technology can reduce total life cycle ('well-to-wheel') CO<sub>2</sub> emissions by between 30 per cent and 80 per cent (depending on feedstock used and production process; source: EUCAR Concawe study; vs. conventional petrol technology), without compromising performance and driving quality.

Ford believes bio-fuels represent an opportunity to make mobility more sustainable and the company welcomes European Union and individual EU government initiatives to create a certification for sustainable production of bio-fuels.

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# FACT SHEET: FORD FLEXIFUEL VEHICLES IN EUROPE

# 1. FLEXIFUEL VEHICLES: PART OF FORD'S BROAD PORTFOLIO OF ENVIRONMENTALLY ADVANCED VEHICLE TECHNOLOGIES

Ford is a European market leader and pioneer in bio-ethanol powered flexible fuel vehicles (FFVs). FFVs are part of Ford's portfolio of environmentally advanced, low-CO<sub>2</sub> vehicle technologies which Ford is committed to offer at affordable prices to its customers. The portfolio includes further optimized conventional technologies (i.e. high tech clean diesel and advanced direct injection gasoline engines), alternative fuel vehicles (including FFVs and in some markets CNG [Compressed Natural Gas] and LPG [Liquified Petroleum Gas] vehicles), hybrid applications (including research into diesel stop/start and plug-in hybrid technology), and in the long term hydrogen powered internal combustion engines and fuel cells. Some of those technologies are already available for today's customers (including FFVs); others are coming soon or are still in the phase of intensive research.

## 2. FLEXIFUEL MODELS AND TECHNOLOGY

- Ford's current Flexifuel models: Focus and C-MAX Flexifuel.
- Ford of Europe will extend its FFV range by offering Flexifuel versions of the new Mondeo, Galaxy and S-MAX from early 2008.
- With this, Ford will offer one of the broadest FFV portfolios in Europe.
- Run on E85 (85 per cent bio-ethanol; 15 per cent petrol), petrol only, or any mix of both in one fuel tank (making them flexible in terms of choice of fuel and operation)
- Four key alterations made to the standard petrol engine to run on E85:
  - o valve seats made of especially hardened material (durability)
  - o bio-ethanol resistant fuel components
  - o enlarged fuel pumps and injectors to cope with extra fuel flow
  - variable ignition control, automatically adapting to the ratio of bio-ethanol and petrol present in the fuel tank

# 3. FFV EUROPEAN MARKET AVAILABILITY AND SALES DATA (FOCUS AND C-MAX FLEXIFUEL)

- Focus and/or C-MAX Flexifuel available in 16 European markets now, incl. Sweden, Germany, the UK, the Netherlands, Ireland, Austria, France, Spain, Switzerland, Norway, Belgium, Italy, Poland, Hungary, Czech Republic, and Denmark. Other markets will follow.
- Affordable: Prices for FFV versions in the same region of (or only marginally above) petrol technology.
- Sweden: the first European market where Ford first introduced its FFVs in 2001; more than 80 per cent of Focus and Focus C-MAX sales and nearly 50 per cent of all Ford sales in Sweden are FFVs today.
- Ford of Europe has sold 17.500 bio-ethanol powered Flexifuel vehicles across Europe in 2007. This marks an increase of 60 per cent compared to the previous year and a sales record.
- More than 45,000 Ford Flexifuels sold in Europe since introduction in Sweden in 2001 (including approximately 31,000 units in Sweden).
- In the past decade, Ford has sold more than 2 million FFVs worldwide. *See also section* 10, "Global commitment".

## 4. PILOT PROJECTS ACROSS EUROPE

- Pilot projects (BEST; PROCURA) with Ford FFVs and external partners under way in Europe, to test potential large scale introduction of E85 fuel and FFVs.
- BEST (Bio Ethanol for Sustainable Transport) focuses on bio-ethanol; pilot projects planned or underway in Sweden, the UK, Spain, Italy, Germany and the Netherlands.
- PROCURA looks at bio-ethanol, bio-diesel and natural gas, and is establishing test programs in Italy, Portugal, Poland, Spain and the Netherlands.
- Both projects, partly funded by the European Union, assist the market development of alternative fuels and vehicles. Through the establishment of large scale demonstration projects, the initiatives aim to provide a thorough understanding of the barriers and issues associated with the market penetration of alternative fuels and respective vehicle technologies in Europe. Project-members come from several areas, incl. the automotive

and fuel industry, local and national government organizations, research institutions and fleet owners (public/private).

### 5. GOVERNMENTS' ROLE / CONCERTED SOCIETAL ACTION

- There is no single solution to address the challenge of climate change: neither in society in general, nor in the transport sector in particular. Climate change can only be properly addressed by integrated approaches; through concerted efforts embracing a wide range of societal stakeholders. For the automotive sector, this includes the auto industry, the fuel industry/energy providers, government and consumers.
- Within the automotive sector, bio-fuels such as E85 and FFV technology can make an important contribution to further reduce transport related CO<sub>2</sub>.
- Governmental assistance including tax incentives is crucial to stimulate introduction and drive initial growth of a bio-ethanol fuel infrastructure and pick up of FFV technology. Tax incentives keep cost of ownership for bio-ethanol-using FFV drivers competitive. Reason: Due to lower energy content of bio-ethanol, fuel consumption of a FFV is higher when operated on E85. Tax incentives such as in Sweden (see section 6; for example: reduced company car tax, free parking in selected cities, etc) are helpful to catalyze the start up process.
- Ford principally supports the move towards a CO<sub>2</sub> based car taxation system, provided certain aspects are considered. One of those is the total life cycle ('well-to-wheel') CO<sub>2</sub> emissions benefit of bio-fuel powered vehicles. The combined use of bio-ethanol as a fuel and flexible fuel vehicle technology can reduce total CO<sub>2</sub> emissions by between 30 and 80% (depending on feedstock used and production process; source: EUCAR Concawe study; vs. conventional petrol technology). We believe that this CO<sub>2</sub> reduction potential must be recognized by any CO<sub>2</sub> based car taxation system. A good example is Sweden: Ford supports the Swedish government's approach of defining which vehicles to be considered as Environmentally Enhanced Vehicles (EEV's) that can benefit from fiscal incentives:

Environmentally Enhanced Vehicles (EEV) are defined as vehicles driven on

- o Renewable fuels = E85, methane (bi-fuel) or FAME (biodiesel), with a fuel consumption max corresponding to 9,2 l/100km; or
- o Fossil fuels = petrol or diesel, with a max CO<sub>2</sub> emission of 120 g/km (diesel powered vehicles must be equipped with a diesel particulate filter).

#### 6. THE SWEDISH EXAMPLE

- The Swedish success story of E85 and Ford's FFV models is a prime example of what can
  be accomplished through co-operation and partnership between companies from different
  industries. Ford played a major and pioneering role, together with government and nongovernmental organisations.
- Incentives for environmentally friendly vehicles in Sweden embrace reduced company car tax, free parking in selected cities, reduced vehicle insurance, exemption from congestion charges in Stockholm and lower annual registration taxes. In addition, bioethanol is exempt from mineral oil tax. The latest incentive is a ca. 1,050,- € payback to the retail customers of environmental friendly cars like a FFV.
- The Swedish Government has also mandated that 85 per cent of Government vehicle purchases (excl police, fire and ambulance vehicles) must be Alternative Fuel Vehicles; and that all petrol stations with an annual volume of more than 1000m<sup>3</sup> must have an alternative fuel pump by Dec. 31, 2009, and all new filling stations must offer Alternative Fuels.

#### 7. THE FRENCH EXAMPLE

- Another example that demonstrates the need for and potential of integrated approaches
  is a bio-fuel charter that has been signed by a broad range of different stakeholders in
  France, including Ford. In the meantime the charter's recommended government
  incentives have been put into law.
- The French government has agreed far-reaching tax incentives for both the fuel and FFV's (no mineral oil tax on ethanol, no company car tax for the first 2 years, reduced registration tax, no VAT on fuel for the fleet customer, etc), the installation of up to 500 E85 pumps by year end 2007 (186 have practically been installed with 50 waiting for approval) and 1,500 by year end 2008, and the commitment of the French administration to purchase 15 per cent FFVs within its overall 2007 vehicle purchases and 30 per cent in 2008 respectively.

### 8. RISING NUMBER OF FUELLING STATIONS ACROSS EUROPE

- Due to the strong dynamics in the bio-fuel/FFV sector, more and more fuelling stations across Europe are starting to offer E85. In Sweden, the number has risen from almost none to more than 1000 filling sites since 2001 and it is projected that by 2009 nearly 60 per cent of Sweden's 4,000 filling stations will be retailing E85.
- Outside of Sweden, there are at least 378 filling stations that offer E85. (Germany: 100; France: 186; UK: 15; Ireland: 16; Switzerland: 25; Netherlands: 3; Norway: 10; Hungary: 15; Spain: 8 all data status Dec 2007)
- E85 price examples (*Jan 2008*): Sweden: SEK 8,79 (vs SEK 11,99 for petrol RON 95); Germany: €0,95 (vs € 1,37 for petrol RON 95); France: € 0,84 (vs € 1,55 for petrol RON 95)

#### 9. THE ENVIRONMENTAL BENEFIT

- Main environmental benefit: As said, the combined use of bio-ethanol as a fuel and Ford's Flexifuel technology can reduce total life cycle ('well-to-wheel') CO<sub>2</sub> emissions by between 30 and 80% (depending on feedstock used and production process; source: EUCAR Concawe study; vs. conventional petrol technology), and this without compromise to performance and driving quality. (CO<sub>2</sub>: carbon dioxide; main greenhouse gas responsible for global warming).
- Bio-ethanol is a renewable fuel derived from plants (e.g sugar beet) or biomass (incl. waste wood). CO<sub>2</sub> emitted by the vehicles is extracted from the atmosphere through new plant growth (photosynthesis). These plants are used to produce bio-ethanol. By this, the CO<sub>2</sub> circle can be closed to a large degree.
- Ford believes bio-fuels do represent an opportunity to make mobility more sustainable and we welcome pan-European Union and individual EU government initiatives to create a certification for sustainable production of bio-fuels.
- Bio-ethanol will contribute to reducing the EU's dependency on oil and create new job opportunities in the agricultural and industry sector.

# 10. FORD'S GLOBAL COMMITMENT

• Ford Motor Company is committed to FFVs throughout its global operations. Three new FFV models will be introduced to the North American market for 2009. In Thailand, Ford introduced a version of its successful Focus model running on regular petrol as well as on a specific bio-ethanol/petrol blend offered in that market. In Brazil, bio-ethanol technology is already long established and FFVs are now the dominant vehicle technology. In the past decade, Ford has delivered more than two million ethanol-powered vehicles worldwide.

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For more information:

Jo Declercq Tel: +32 2 482 21 03 jdecler2@ford.com