

## Clean Moves to empower home made mobility

- Climate change cost provide boost to mobility innovation at the world's leading industry trade show
- Innovative mobility technology will pave the way to sustained growth beyond the transport sector

Under the patronage of Germany's Environment Minister Sigmar Gabriel, "Clean Moves Expo" will present energy- and fuel efficient technologies in a global market context under the umbrella of the world's leading industry show, the Hannover Fair. From 16 to 20 April 2007 carmakers, fuel producers, component suppliers and investors will come together at Clean Moves Expo to swap know-how about market-ready products – with special emphasis on drive systems (hybrid, natural gas, electric), biogas, ethanol and synthetic Biofuels. "Combating climate change is one of the most important tasks facing us this century. However, we should not see climate change solely as a threat. Instead we must exploit the opportunities inherent in a third industrial revolution – a revolution centred on the efficient utilization of energy and natural resources. This applies to the transport sector in particular," Gabriel emphasizes.

Innovative mobility technology will provide the basis for sustained growth beyond the boundaries of the transport sector as substantial investments go increasingly into technologies that can mitigate the effects of climate change. The EU alone will have to spend an additional €1.1 trillion over the next 14 years, if it is to fulfil ambitious climate change goals, a new study by the leading consulting firm McKinsey has indicated. McKinsey has calculated that the EU states will face annual costs of between €60 to €80 billion up until 2020.

Ethanol currently ranks as the world's number one biofuel - next to other viable solutions

The international market for ethanol fuels and related production facilities is booming. This fact will be reflected directly in the exhibitor line-up at Clean Moves Expo. "With a total output of 38.8 million cubic metres in 2006, ethanol currently ranks as the world's number one biofuel. We expect dynamic growth in the European bioethanol market," explains Dr. Lutz Guderjahn, who sits on the Board of CropEnergies AG, one of the Clean Moves exhibitors. The Südzucker CropEnergies Group has subsidiaries in Germany, France and Belgium. Within just a few years the company has established a strong foothold in the burgeoning ethanol market and currently operates Europe's largest bioethanol production plant. CropEnergies sees itself as a pioneer in Germany and is intent on carving out a strong market position throughout Europe.

To combat climate change effectively a range of technology solutions will have to be explored alongside each other, including e.g. also compressed natural gas (CNG) or synthetic fuels (BTL). Volkswagen – one of the largest global car manufacturers and a key Clean Moves Expo exhibitor will be presenting new "Sunfuel" technologies in the field of synthetic fuels, also referred to as BTL. The exceptional purity of these means they enjoy clear consumption advantages as well – in addition to their benefits in terms of exhaust emissions, a reduction potential of 50% and more. BTL fuels also have the considerable added benefit of a closed CO<sub>2</sub> cycle, since the plants re-bind the CO<sub>2</sub> released during engine combustion into biomass. The majority of energy needed for this process is solar sourced.

Compressed natural gas (CNG) powered vehicles are clean - they emit 70% less reactive hydrocarbons, and 74% less carbon monoxide than similar gasoline powered vehicles. "The use of CNG-fuelled vehicles significantly reduces emissions of ozone precursors and the CNG market is booming. "In Germany we witnessed a breathtaking growth of over 40% yearly over the last three years, and in 2007 over 55,000 vehicles in Germany ran on compressed natural gas. CNG also offers attractive synergies with the fast growing biogas market." says Enercity Distribution Director Frerich Brandes.

#### Clear focus on global market growth

The international oil giant BP will number among the contributors to the Clean Moves Conference. In the words of BP's Group Managing Director John A. Manzoni: "Our goal must be to raise fuel efficiency and cut emissions. In other words, we need higher performance and lower exhaust emissions. In the year 2050 there will be two billion vehicles on the road. These will need to travel twice as far per litre of fuel compared with present-day vehicles." In the coming ten years BP is committed to investing \$1 billion in order to enhance its strong position in the biofuel market. The company forecasts that biofuels will account for a market share of between 20 and 30 percent by 2030. Private cars make up a significant proportion of transportation-related CO<sub>2</sub> emissions. In the words of Environment Minister Sigmar Gabriel: "We need binding regulations in order to achieve our CO<sub>2</sub> reduction goals. In particular, we need to create tax incentives for highly efficient propulsion systems. In addition, we are attaching top priority to biofuels. We aim to increase their share to more than 6.75 percent by 2010."

"The private sector driven Clean Moves venture empowers home made fuel and mobility technologies. It serves as a technology bridgehead to advance the market penetration of low carbon solutions, where deals are made, where market movers exchange critical know-how.", says Ralph Kappler, Event Manager and founder of the independent Clean Moves industry platform.

#### Energy efficiency a recurrent theme at Hannover Messe 2007

"In its role as the world's leading industrial technology show, Hannover Messe 2007 will focus on energy efficiency as a key issue affecting all sectors. Under the umbrella of the 'Energy' trade show, Clean Moves Expo is hosted by Hannover Messe and will function as a central platform for alternative drive systems, efficient mobility solutions and biofuels. It will be the perfect complement to the exhibit line-up at MDA, the world's largest power transmission and control fair, part of this year's Hannover Messe line-up," explains Wolfgang Pech, the Senior Vice-President responsible for Hannover Messe.

The Clean Moves Conference will centre on a range of key issues, including New Mobility, Innovative Drive Systems and Alternative Fuels. It has been organized by Deutsche Messe, Halo Energy and the Hannover Regional Climate Protection Agency. The list of speakers includes high-ranking representatives of the international automobile and fuel industries, as well as Walter Hirche (Lower Saxony's Minister of Economics) and Hauke Jagau (Hannover's Regional President).

"Clean Moves Expo" is sponsored by IKB Industriebank, Düsseldorf, and Kleiner Perkins Caufield Byers, Palo Alto. Further information is available at [www.CleanMoves.com](http://www.CleanMoves.com)

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Event Website: [www.cleanmoves.com](http://www.cleanmoves.com) and [www.hannovermesse.de](http://www.hannovermesse.de)