



Ein Projekt im Nationalen Innovationsprogramm  
Wasserstoff- und Brennstoffzellentechnologie



Gefördert durch:



Bundesministerium  
für Verkehr, Bau  
und Stadtentwicklung

Koordiniert durch:



National Organisation für  
Wasserstoff- und Brennstoffzellentechnologie

## **Hydrogen – join the movement: Clean Energy Partnership (CEP)**

*The Clean Energy Partnership (CEP) is a consortium of currently 15 leading companies who are committed to establish hydrogen as a fuel for an emission-free and quiet mobility in the future. Its members include technology, oil and energy companies, the majority of the world's largest car manufacturers, as well as two leading public-transport systems: Berlin and Hamburgs public-transport systems BVG and Hamburger Hochbahn AG, Air Liquide, BMW, Daimler, Ford, GM/Opel, Honda, Linde, Shell, Statoil, Total, Toyota, Vattenfall Europe und Volkswagen. Associated partners of the CEP are the Federal States North Rhine-Westphalia, represented by EnergieAgentur.NRW, Baden-Württemberg and Hesse.*

*It is an ambitious project, as performance under real-life operating conditions will have to be convincing from a both technical and economic standpoint. This includes the continuous operation of efficient hydrogen vehicles, their fast, safe refuelling, the clean and sustainable production of hydrogen, and its transport and storage in both its liquid and gaseous states. The increasing integration of renewable energy sources for hydrogen production is a clear objective of the CEP.*

*The CEP emerged from the Transport Energy Strategy (VES), and was established in December 2002 as a joint political initiative lead-managed by the German Ministry of Transport and Industry. The CEP is a lighthouse project of the National Hydrogen and Fuel Cell Technology Innovation Programme (NIP) in the transport sector. The NIP is implemented by NOW GmbH (National Organisation for Hydrogen and Fuel Cell Technology). The CEP is the biggest demonstration project in Europe in the field of hydrogen technology.*

*At HANNOVER MESSE 2012, 23.-27. April there is an opportunity for test drives with the CEP vehicle fleet in the outside **Ride + Drive Area**. The vehicles are refuelled by Linde's mobile hydrogen filling station. The CEP is present with the following types of vehicle:*

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AIR LIQUIDE | BMW Group | BVG | DAIMLER | Ford | GM/OPEL | HOCHBAHN | HONDA  
Linde | Shell Hydrogen | Statoil | TOTAL | TOYOTA | Vattenfall Europe | VOLKSWAGEN AG

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#### **GM/Opel HydroGen4**

Drive: fuel cell  
Refuelling: gaseous hydrogen, 700 bar  
Power: 73 kW  
Top speed: 160 km/h  
Range: approx. 320 km



#### **Honda FCX Clarity**

Drive: fuel cell  
Refuelling: gaseous hydrogen, 350 bar  
Power: 100 kW  
Top speed: 160 km/h  
Range: 460 km



#### **Toyota FCHV-adv**

Drive: fuel cell  
Refuelling: gaseous hydrogen, 700 bar  
Power: 90 kW  
Top speed: 155 km/h  
Range: approx. 790 km (according to American test cycle)



#### **Vattenfall's Mercedes-Benz B Series F-CELL**

Drive: fuel cell  
Refuelling: gaseous hydrogen, 700 bar  
Power: 100 kW  
Top speed: 170 km/h  
Range: approx. 400 km



#### **VW Tiguan HyMotion**

Drive: fuel cell  
Refuelling: gaseous hydrogen, 700 bar  
Power: 100 kW  
Top speed: 160 km/h  
Range: approx. 250 km



#### **Mobile hydrogen filling station (Linde)**

Trailer dimensions: 14 m x 2,6 m x 4 m  
Weight: 35t  
Fuels: Gaseous hydrogen 350 and 700 bar  
Capacity: 160 kg

Further information on the CEP you will find at the NOW Group Pavilion at the **Group Exhibit Hydrogen + Fuel Cells** at HANNOVER MESSE 2012, 23.-27. April, in **hall 27**.

Contact the CEP via be: public relations GmbH

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