

BMW

U.S. Press Information

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Global Automakers to Demo EV Fast Charging at EVS26

Combined Charging System facilitates both AC as well as DC fast-charging from a single inlet port

- Eight global automakers to participate in charging display and will demo the standardized single-port DC-fast charging technology
- The system will optimize customer ease of use and will accelerate more affordable deployment of electrified vehicles and charging infrastructure
- The Society of International Engineers has chosen the single-port fast charging method as its standard for fast charging and the European manufacturing association (ACEA) has endorsed harmonization for all vehicle types
- Chargers will be available commercially as of the end of 2012 and vehicles using the technology will be available starting 2013

Los Angeles, CA – May 3, 2012... Global automakers from the United States and Germany will demonstrate fast-charging technology that will enable the recharging of most electrified vehicles with compatible systems in as little as 15-20 minutes.

Audi, BMW, Chrysler, Daimler, Ford, General Motors, Porsche and Volkswagen have agreed to support a harmonized single-port fast charging approach – called DC-fast charging with a Combined Charging System – for use on electric vehicles in Europe and the United States. Live charging demonstrations will be conducted during the Electric Vehicle Symposium 26 (EVS26) May 6-9.

The combined charging system integrates one-phase AC-charging, fast three-phase AC-charging, DC-charging at home and ultra-fast DC-charging at public stations into one vehicle inlet. This will allow customers to charge at most existing charging stations regardless of power source and may speed more affordable adoption of a standardized infrastructure.

The International Society of Automotive Engineers (SAE) has chosen the Combined Charging System as the fast-charging methodology for a standard that incrementally extends the existing Type 1-based AC-charging. The standard is to be officially published this summer. ACEA, the European association of vehicle manufacturers has also selected the Combined Charging System as its AC/DC-charging interface for all new vehicle types in Europe beginning in 2017.

The charging system design was based on the collaborative review and analysis of existing charging strategies, the ergonomics of the connector and preferences of U.S. and European customers. The Combined Charging System was developed for all international vehicle markets and creates a uniform standard with identical electrical systems, charge controllers, package dimensions and safety mechanisms.

The system maximizes capability for integration with future smart grid developments through common broadband communication methods regardless of the global location of the charging system. The combined charging approach will reduce development and infrastructure complexity, improve charging reliability, reduce the total cost-of-ownership for end customers and provide low maintenance costs.

Commercially available combined charging stations are projected to be available later this year. All committed OEMs have vehicles in development which will use the Combined Charging System. The first vehicles to use this system will reach the market in 2013.

BMW ActiveE and project i - research and development of tomorrow's mobility.

The BMW ActiveE is the BMW Group's next step towards an emission-free, mass-produced electric vehicle. Within the framework of project i, the BMW Group is carrying out research and development work on the development of electrically powered vehicles. The next step will be the BMW i3 due to launch in 2013. It will be designed to meet the demands of a sustainable mobility solution for congested urban areas. For this reason, the drive components and battery technology that will be used in the BMW i3 are being tested now in the BMW ActiveE.

The recent field test involving more than 600 MINI E cars, including 450 in the US, have provided vital knowledge about the demands on future electrically powered production

vehicles. Beginning this year a test fleet of over 1100 BMW ActiveE vehicles on the road in the US, Europe and China will provide further valuable insights into the everyday use of the vehicle. Soon 700 BMW ActiveEs will on the road in the US, mostly in private hands. The findings from this trial will serve to deepen the knowledge already gained on the everyday use of electric vehicles and to learn more about customer requirements. The feedback from customers testing the MINI E and the BMW ActiveE will be fed directly into series production of the BMW i3, which will be launched in 2013.

BMW Group in America

BMW of North America, LLC has been present in the United States since 1975. Rolls-Royce Motor Cars NA, LLC began distributing vehicles in 2003. The BMW Group in the United States has grown to include marketing, sales, and financial service organizations for the BMW brand of motor vehicles, including motorcycles, the MINI brand, and the Rolls-Royce brand of Motor Cars; DesignworksUSA, a strategic design consultancy in California; a technology office in Silicon Valley and various other operations throughout the country. BMW Manufacturing Co., LLC in South Carolina is part of BMW Group's global manufacturing network and is the exclusive manufacturing plant for all X5 and X3 Sports Activity Vehicles and X6 Sports Activity Coupes. The BMW Group sales organization is represented in the U.S. through networks of 338 BMW passenger car and BMW Sports Activity Vehicle centers, 139 BMW motorcycle retailers, 113 MINI passenger car dealers, and 32 Rolls-Royce Motor Car dealers. BMW (US) Holding Corp., the BMW Group's sales headquarters for North America, is located in Woodcliff Lake, New Jersey.

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