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BMW
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BMW Joins Electric Power Research Institute, Other Auto Manufacturers and Utilities in Developing Next Step in Smart Charging: Technology to Manage When to Charge Plug-in Electric Vehicles

Woodcliff Lake, NJ – July 29, 2014… In another example of the company's holistic approach to electromobility, the BMW Group announced that it will begin testing an electric vehicle integration platform developed by the Electric Power Research Institute (EPRI). The platform is designed to help utilities manage when plug-in electric vehicles (PEVs) are charged, a process known as demand charging. This would make it possible for utilities to schedule electric vehicle charging for those times during the day when demand for electricity is relatively low, which could save BMW i drivers money while charging. EPRI will work with eight automakers and 15 utility providers across the U.S. to develop an interface that, in addition to scheduling of charging would also, synchronize EV charging with renewable energy when available, and take advantage of real-time changes in the price of electricity in order to lower the cost of charging.

This collaboration led by EPRI will enable utilities, automobile manufacturers and other service providers to test the viability of communication standards already set by organizations including the Society of Automotive Engineers, the International Electrotechnical Commission (IEC), the International Organization for Standardization (ISO) and the Open Automated Demand Response Alliance for use by electric vehicles.

"This collaboration will make it easier for electric vehicle drivers to save money by enabling the utility to schedule charging for times during the day when demand for electricity is relatively

low," said Cliff Fietzek, Manager BMW Connected eMobility Group. "In addition to this collaboration, BMW is developing technology that will allow our customers to easily control when and how their cars charge, and also to seamlessly integrate with home solar power generation and energy management systems," Fietzek added.

Electric utilities and regional transmission organizations participating in the platform development and demonstration project include DTE Energy Company, Duke Energy, PJM Interconnection LLC, CenterPoint Energy, Inc., Southern Company, Northeast Utilities, Southern California Edison, Pacific Gas & Electric Company, San Diego Gas & Electric, Commonwealth Edison, TVA, Manitoba Hydro, Austin Energy, ConEd and CPS Energy.

Also working with BMW is IPKeys Technologies, a strategic partner in the Federal Government, Commercial and Energy sectors with expertise in the development, integration, and deployment of Demand-Response technology and a board member of the OpenADR Alliance.

By joining in the EPRI Open-Grid platform pilot program, BMW builds on a series of recent innovations designed to drive wide-spread market adoption of electric vehicles. The BMW Smart Charging App for mobile devices was announced in June 2014 following the recent launch of the BMW i3 electric vehicle. The BMW Smart Charging App makes it possible for BMW i customers to automatically identify the best rates and times for charging their electric vehicles at home. The BMW Smart Charging App has the potential to save customers as much as $400 annually on their electric bills. BMW is the first automotive manufacturer to offer this automated and fully integrated functionality. The Smart Charging App will be available to all BMW i3 and BMW i8 customers in the U.S. in 2015.

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 339 BMW passenger car and BMW Sports Activity Vehicle centers, 139

BMW motorcycle retailers, 120 MINI passenger car dealers, and 35 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.

Journalist note: Information about BMW Group and its products in the USA is available to journalists online at www.bmwusanews.com and www.press.bmwna.com.

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