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Johnson Controls presents new battery system for Advanced Start-Stop vehicles at the Frankfurt International Auto Show 2015

- 12-volt Lithium-ion technology will help automakers meet fuel efficiency and emissions regulations
- Dual battery system can increase fuel efficiency by up to 8 percent
- Technology is a response to increasing customer demand for Start-Stop vehicles

Frankfurt, Germany – September 16, 2015. Global automotive industry trends, such as environmental regulations for more fuel economy, are the driving forces behind Johnson Controls battery innovations at the IAA 2015 in Frankfurt. For the first time in Europe, the company will debut its 12-volt Lithium-ion battery. In an Advanced Start-Stop vehicle, it can achieve 8 percent fuel savings.

“Johnson Controls is pursuing opportunities to develop evolutionary low-voltage energy storage systems that will help our customers meet increasing regulations,” said Lisa Bahash, group vice president and general manager Original Equipment, Johnson Controls Power Solutions. “The Advanced Start-Stop battery technology makes significant CO2 reductions possible.” According to EU regulations, in 2021, the maximum CO2 emission level for new vehicles will be 95 gram per kilometer what means a fuel consumption of 4.1 liter per 100 kilometer.

An Advanced Start-Stop system has two batteries. First, a 12-volt Absorbent Glass Mat (AGM) or Enhanced Flooded Battery (EFB), which will start the engine and supply power to accessories such as lights, navigation systems and radios. Second, a 12-volt Lithium-ion battery, which uses a proprietary Titanate chemistry, will primarily accept and store regenerative braking energy during vehicle deceleration, enabling greater power and load management capabilities.

In collaboration with Toshiba, the technology used in the 12-volt Lithium Titanate battery is effective at quickly recharging, works well in a wide range of temperatures and can be easily integrated into a vehicle’s 12-volt electrical system. “At Johnson Controls, we are always thinking ahead to ensure we’re offering the right solutions for vehicles that meet drivers’ expectations today and in the future,” said Lisa Bahash. “This 12-volt Lithium-ion battery expands our offerings to support the performance and environmental needs of our global customers.” The Advanced Start-Stop battery will be produced starting as early as 2018.

Johnson Controls presents its latest technological advancement, the 12-volt Lithium-ion battery for Advanced Start-Stop vehicles, at the IAA in Frankfurt, Germany, from September 17 to 27 in Hall 5.1, Booth B28.

For more information, please visit our [website](#). Images are available in our [online media center](#).

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About Johnson Controls

Johnson Controls is a global diversified technology and industrial leader serving customers in more than 150 countries. Our 170,000 employees create quality products, services and solutions to optimize energy and operational efficiencies of buildings; lead-acid automotive batteries and advanced batteries for hybrid and electric vehicles; and seating components and systems for automobiles. Our commitment to sustainability dates back to our roots in 1885, with the invention of the first electric room thermostat. Through our growth strategies and by increasing market share we are committed to delivering value to shareholders and making our customers successful. In 2015, Corporate Responsibility Magazine recognized Johnson Controls as the #14 company in its annual “100 Best Corporate Citizens” list. For additional information, please visit <http://www.johnsoncontrols.com> or follow us @johnsoncontrols on Twitter.

About Johnson Controls Power Solutions

Johnson Controls Power Solutions is the world’s largest manufacturer of automotive batteries, supplying approximately 140 million every year to automakers and aftermarket retailers. The company’s full range of lead acid and Lithium-ion battery technology powers nearly every type of vehicle for our customers- including conventional, Start-Stop, Micro Hybrid, hybrid and electric. Johnson Controls’ recycling system has helped make automotive batteries the most recycled consumer product in the world. Globally, 15,000 employees develop, manufacture, distribute and recycle batteries at more than 50 locations. For more information, please visit <http://www.JohnsonControls.com/PowerSolutions> or follow @JCI_BatteryBeat on Twitter.