

JOHNSON CONTROLS TO UNVEIL NEW BATTERY SYSTEM FOR ADVANCED START-STOP VEHICLES AT THE NORTH AMERICAN INTERNATIONAL AUTO SHOW

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DETROIT, Jan. 8, 2015 /PRNewswire/ -- Johnson Controls, a global multi-industrial company, is expanding its automotive battery offerings by introducing a Lithium Titanate battery. The company's latest 12-volt technology, which is a collaboration with Toshiba, will power Advanced Start-Stop vehicles.



"Johnson Controls is pursuing opportunities to develop evolutionary low-voltage energy storage systems that will help our customers meet increasing fuel regulations at a lower cost than a hybrid or electric vehicle," said Lisa Bahash, group vice president and general manager Original Equipment, Johnson Controls Power Solutions. "In partnership with Toshiba, we are expanding our Lithium-ion product offerings to support the needs of our global customers."

The Lithium Titanate chemistry 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. Toshiba, with its SCiB™ technology, is the established market leader for Lithium Titanate.

"Toshiba is pleased to work with Johnson Controls to supply SCiB™ cells for this application," said Shun Egusa, general manager of Toshiba's automotive business. "The opportunity to support global automakers with their goal of improving vehicle efficiency is an important part of our strategy and vision."

An Advanced Start-Stop system has two batteries. 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. The 12-volt Lithium Titanate battery will primarily accept and store regenerative braking energy during vehicle deceleration, enabling greater power and load management capabilities.

"With an Advanced Start-Stop system, drivers could save up to 8 percent every time they fill up their gas tank as the batteries enable the engine to shut off more frequently and for longer periods of time," said Bahash. "This is also a great solution for our customers because the technology allows for greater fuel savings without major changes to the existing powertrain and electrical systems."

The 12-volt battery systems will be produced starting in 2018.

Johnson Controls will unveil the battery system January 12 at the North American International Auto Show in Detroit.

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

About Johnson Controls

Johnson Controls is a global diversified technology and industrial leader serving customers in more than 150 countries. The company's 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 interior systems for automobiles. Johnson Controls' commitment to sustainability dates back to its roots in 1885, with the invention of the first electric room thermostat. Through its growth strategies and by increasing market share, Johnson Controls is committed to delivering value to shareholders and making its customers successful. In 2014, Corporate Responsibility Magazine recognized Johnson Controls as the #12 company in its annual "100 Best

Corporate Citizens" list. For additional information, please visit <http://www.johnsoncontrols.com> or follow [@johnsoncontrols](#) on Twitter.

About 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.

CONTACT: Gretchen Miller
(414) 630-6723
Gretchen.A.Miller@jci.com

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