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## **Johnson Controls to unveil Micro Hybrid battery demonstration module at North American International Auto Show**

DETROIT, Jan. 10, 2013 /PRNewswire/ -- Johnson Controls, Inc., the world's leading supplier of automotive batteries, will introduce its 48 volt Micro Hybrid battery demonstration module as part of its full spectrum of advanced energy storage solutions for automobiles. Power Solutions President Alex Molinaroli will unveil the company's next generation technology Jan. 14 at the North American International Auto Show in Detroit.

"Johnson Controls sees opportunities for the development of evolutionary energy storage systems that offer even more fuel efficiency than Start-Stop at less cost than a hybrid or electric vehicle," said Alex Molinaroli, president, Johnson Controls Power Solutions. "Even as Start-Stop vehicles become part of the mainstream in Europe and start to take hold in the U.S., Micro Hybrid technology has the potential to deliver the next level of fuel efficiency along the spectrum of vehicle performance, reaching upwards of 15 to 20 percent in fuel economy."

Leveraging a dual voltage architecture, Johnson Controls' Micro Hybrid battery system would involve a low voltage lead-acid battery and a 48 volt Lithium-ion battery that enable optimization of energy generation and consumption, thus saving fuel.

In prospective development programs with key automakers, the 48 volt battery could support higher power loads such as electric air-conditioning, active chassis technologies and the capture of direct regenerative power energy braking. The 12 volt battery would continue to provide power to the vehicle starter, interior and exterior lights, and entertainment systems such as radios and DVD players.

"We expect this technology to be adopted in Europe first, due to more stringent fuel economy and emissions standards, and then quickly move to U.S. markets in the next few years with mass adoption by 2020," said Molinaroli.

### *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 interior 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 2011, Corporate Responsibility Magazine recognized Johnson Controls as the #1 company in its annual "100 Best Corporate Citizens" list. For additional information, please visit <http://www.johnsoncontrols.com>.

### *About Johnson Controls Power Solutions*

Johnson Controls Power Solutions is the global leader in lead-acid automotive batteries and advanced batteries for Start-Stop, hybrid and electric vehicles. Our 50 manufacturing, recycling and distribution centers supply more than one-third of the world's lead-acid batteries to major automakers and aftermarket retailers. Through our innovations we are building the advanced battery industry for hybrid and electric vehicles. We were the first company in the world to produce lithium-ion batteries for mass-production hybrid vehicles. Our commitment to sustainability is evidenced by our world-class technology, manufacturing and recycling capabilities.

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