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## **TMI FUEL CELL HOSTS THE GOVERNOR OF OHIO** *Strickland highlights advanced, distributed energy development in Ohio*

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**Cleveland** – Cleveland-based TMI (Technology Management, Inc.), Ohio’s oldest fuel cell systems company and developer of the *Anywhere Energy* system, was pleased to host Ohio Governor Ted Strickland for a tour and discussion of the importance of advanced, distributed energy generation.

“I believe in Ohio because Ohio will power the future.” Strickland said in his 2010 State of the State address. “I believe in Ohio because we have made a commitment to advanced energy and we are seeing results. [...] There will come a day when Ohio will be the undisputed home of advanced energy.”

The State of Ohio has been a strong partner with TMI. In 2009, TMI received an Ohio Bipartisan Job Stimulus Award for Advanced Energy and was a collaborator on a Third Frontier Fuel Cell Program award with Lockheed Martin, a follow-on to a 2008 award. Both awards are focused on the commercialization of TMI’s fuel cell as a clean, high efficiency replacement for military diesel gensets with Lockheed Martin as TMI’s channel partner. Discussions are in progress with other major corporations to become channel partners for residential-scale and rural markets.

“Distributed generation at the point of use will be an important part of America’s energy and security future.” said Benson Lee, TMI’s CEO. “Our technology was invented in Ohio, has been developed and perfected over two decades, and is designed to be manufactured in large numbers at low cost just like an appliance. We look forward to the day when we are employing Ohio’s manufacturing might to transform the way energy is used at home and throughout the world.”

### **About TMI’s “Anywhere Energy” System.**

Compared to other small-scale fuel cell systems, TMI’s system was designed with the simplicity of a home appliance so it would be easy to use (and manufacture) and have the flexibility to operate on a wide variety of common liquid and gaseous fuels -- ranging from natural gas, diesel, kerosene and military JP-8 to renewable fuels such as ethanol, vegetable oils, biodiesel, digester gas, ammonia and even used cooking oil. The system provides clean, quiet, point-of-use power with high fuel efficiency and the 24/7 availability of a utility power plant.

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**Editors Note:** Photos and reference fact sheets are available upon request for publication.



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TMI's system provides a choice for consumers who want or need energy independence from the utility grid or from fossil fuels. TMI's modular 1-kW system provides the advantages of being sited almost anywhere, including indoors, so surplus heat can be used for cogeneration (e.g., heating and cooling).

The key is TMI's proprietary integrated fuel reformer and fuel cell stack which can tolerate fuel impurities such as sulfur (e.g., from JP-8 or biogases) while maintaining high fuel efficiency. In addition, TMI's *Anywhere Energy* system is modular allowing it to be "ganged" in multiples for more power or redundancy for higher reliability.

TMI is also collaborating with Lockheed Martin and The Ohio State University in separate, product and market development initiatives, both of which have received funding from the Ohio Third Frontier Program and numerous federal agencies.

**Lockheed Martin**, Stark State Technical College and TMI are collaborating on a fuel cell genset replacement for the Department of Defense's current fleet of diesel generators. A recent release from Lockheed Martin stated, "TMI has built multiple 1 kW-scale laboratory gensets. These are complete systems, with fuel in and 110V 60Hz AC electrical power out. They have recently demonstrated more than 600 hours of complete system operation on standard JP-8 fuel, with sulfur, including 475 hours continuous operation in August-September 2009 under the Ohio Third Frontier program with Lockheed Martin. Lockheed Martin is now working with TMI to improve the overall system performance, packaging and ruggedness, to transition the technology from the lab to the front lines, meeting the 'MIL Standards' to survive in the harsh battlefield environment." Stark State will provide component testing and workforce training.

As part of the Ohio Biomass to Energy Program at the Ohio Agricultural Research & Development Center (OARDC), TMI and **The Ohio State University** are integrating biogas from anaerobic digesters (using farm and food processing wastes) as fuel input for TMI's *Anywhere Energy* system to produce clean, electricity and heat for on-site use. Through the Ohio Third Frontier Program, the shared OSU/ TMI vision is to showcase a small-scale system for converting biomass waste into clean, renewable energy. This project bridges between Ohio's two largest industries, supply chain manufacturing and agriculture and provides a pathway for the home and small business owner to become part of the solution, as a supplier and/or consumer of clean, renewable energy.

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