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TMI FUEL CELL SYSTEMS PREPARES TO MOVE FORWARD WITH COMMERCIALIZATION
Funding approved by State of Ohio will cover \$2.5 million in capital costs.

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COLUMBUS – Cleveland-based TMI (Technology Management, Inc.), Ohio’s oldest fuel cell systems developer, received final approval from the State of Ohio Controlling Board for \$2,537,500 in funding to support commercialization of TMI’s compact fuel cell system into kilowatt-scale markets, including military, farm, home-based and remote power applications.

Ohio Governor Ted Strickland announced the award earlier, pending Controlling Board approval of the latest round of seven projects, from the \$150 million advanced energy portion of the Ohio Bipartisan Job Stimulus Plan. ([Link](#))

“The cutting-edge technologies that these seven companies will employ demonstrate Ohio’s leadership across the advanced energy spectrum,” Strickland said in a [release](#). “The state’s investment in advanced energy technologies is stimulating our economy and creating Ohio jobs today.”

“We are pleased with this statement of support from the State of Ohio and look forward to moving our distributed generation systems to commercialization,” said Benson Lee, TMI’s CEO. He continued, “Imagine a home appliance the size of a dishwasher, so clean it can be used safely indoors, generating enough continuous power 24/7 to meet the requirements of an average home, a small farm or a third-world village. Unlike other fuel cells, our *Anywhere Energy* system runs directly on fuels available almost anywhere, including renewable biofuels like vegetable oil, and can deliver clean, renewable energy anywhere, anytime.”

About TMI’s “Anywhere Energy” System.

Compared to other residential-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 the energy efficiency and 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 is an option 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 from JP-8 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 in current, but separate, product and market development collaboratives with Lockheed Martin and The Ohio State University.

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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