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News

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Planning & Economic Development

For Immediate Release

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New tenant moves into Macomb-Oakland University INCubator

Terra-Telesis harnesses aircraft energy to power turbines

Sterling Heights, Mich. - Terra-Telesis is a new Michigan company with a patent pending for a revolutionary new wind turbine that could enable airports to generate electricity while reducing dependence on fossil fuels. As of last week, the company officially moved into the Macomb-Oakland University INCubator to complete additional testing and to begin commercialization of the technology.

The AWGET (Airport Wind Generated Electric Turbine) is a low-profile wind turbine that is specifically designed to capture powerful airport surface winds created when aircraft take off and land. As confirmed by NASA studies, this “wake vortex” is “constant, measurable and consistently present” near runways.

By harnessing this energy, private, public and military airports could generate electricity and reduce reliability on fossil fuels. A \$50,000 micro-loan secured by the company through the Macomb-OU INC enabled Terra-Telesis to work with a third-party engineering firm to conduct computational fluid dynamics analysis, indicating that AWGET is potentially feasible to generate energy.

“The Macomb County Department of Planning & Economic Development has been instrumental in assisting our company to connect with potential partners and create interest in our technology,” said Al Khavari, company president. “After working nearly three years on this project, we are very excited to get the prototypes built with our Michigan partners Energy Components Group of St. Clair Shores and Geosyntec Consultants of Ann Arbor. We hope to begin testing in the very near future.”

A lease agreement between Terra-Telesis and the Macomb-OU INCubator was approved by the Sterling Heights Local Finance District Authority on May 18, 2011. The company moved in on September, 1, 2011.

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