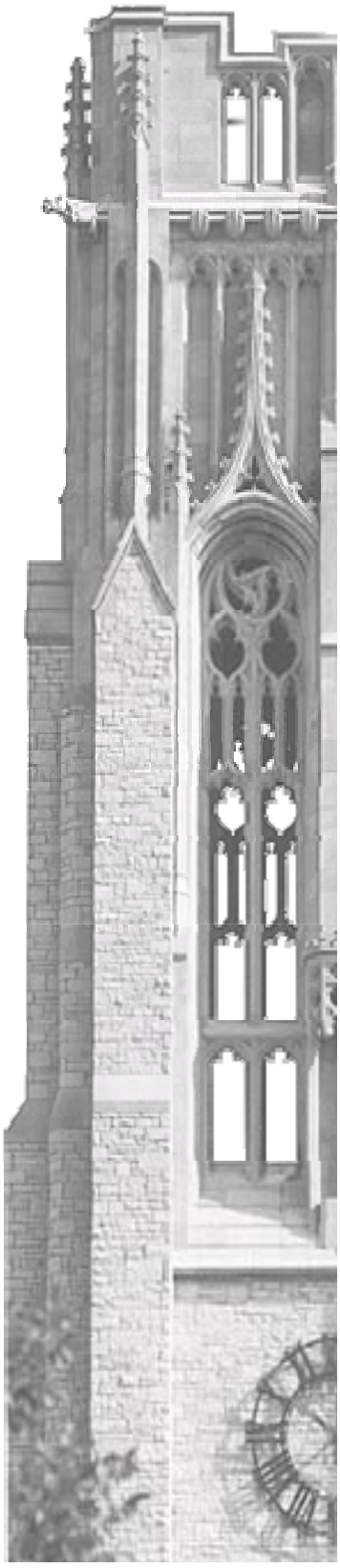
THE UNIVERSITY OF TOLEDO
1872

seeks partner to license



Peak Power Tracking System for Solar and/or Wind Energy Sources

The University of Toledo is currently seeking companies interested in licensing a method for peak power tracking for a single or multiple energy source system with a common DC load. Most present solar and wind power installations require the DC output from solar/wind panels to be converted into AC. This type of circuit requires the use of an inverter, which is expensive, complex and often has efficiencies of only 85-90%. Researchers at the University of Toledo have developed a novel method that may be utilized in applications that have large local loads using DC power. This system avoids the use of an inverter, thereby decreasing costs and increasing efficiencies to 96-97%. This method is useful with any combination of both solar arrays and wind turbines connected to a common DC bus.

Application:
This technology/system can be utilized in fluorescent lighting, electrolysis equipment, electroplating, induction heating, and aluminum reduction plants.

Advantages:
Does not use inverter.
Reduction of costs and increase the efficiency in peak power tracking systems.

Contact

Stephen Snider
The University of Toledo
Office of Research Development, MS 1034
3000 Arlington Avenue
Toledo, Ohio 43614

Phone: 419-383-6963
E-mail: stephen.snider@utoledo.edu