

For Immediate Release

December 22, 2010
Tampa Bay, FL



POWER QUALITY INTERNATIONAL, INC. unveils its Technology Demonstration Laboratory & TV Studio at its corporate offices in Odessa, Florida. This new 'state-of-the-art facility includes a nonlinear load bank that can be configured to represent three-phase, phase-to-phase connected electronic loads, such as motor drives, or single-phase, phase-to-neutral connected electronic loads, such as personal computers. The lab also includes a measuring system that can accurately determine a transformer's Excitation Losses and Impedance Losses, under any nonlinear load condition, and calculate its resulting energy efficiency.

The new measuring instrument, which was developed by Omega Magnetics Engineering, LLC. , is based on the *Voltage and Current Difference, Loss Measurement Method*. This method is detailed in a number of IEEE papers. These publications also discuss the practical limitations of other measurement methods, including the *Power-In – Power-Out, Measurement Method*, employed by our competitors. The original measuring instrument, which was developed in 2003, and its electronic replacement, are the only measuring instruments of this type in existence. Both have losses measurement accuracies of $\pm 1.3\%$ and a resulting efficiency accuracy of $\pm 0.034\%$.

The Technology Demonstration Laboratory is set up as a 'television-style' studio that includes a 1080p high-definition video camera and sound system. Combined with our similarly equipped conference center, our four-way Video Communications Network is an invaluable resource for our many representatives and their customers.



Jennifer Aldrich, President Powerlogics, Inc. joins PQI VP Jeff Turner, and PQI Director of Sales Jarrod Dobbs in a 4-way video call while Greg Ferguson presents from the PQI Technology Laboratory and Studio.



Technology Demonstration Laboratory & TV Studio
Prototype No. 1



Prototype No. 2



Prototype No. 3