



Utility Systems Technologies, Inc.

NEWS

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**NEW TECHNOLOGY MAY SAVE BUSINESSES THOUSANDS OF DOLLARS
WHILE BENEFITTING THE ENVIRONMENT**

(Latham, NY) – Utility Systems Technologies, Inc. (UST), a Latham-based company, has developed a new high-efficiency power transformer, the Mini-EVR™, that may save businesses thousands of dollars each year in energy costs while benefiting the environment. The New York State Energy Research and Development Authority (NYSERDA) has contracted with UST to launch a demonstration project to measure potential energy savings.

UST develops power conditioning technologies to improve the power at the end-user site. Current ferroresonant transformer (ferro) technology typically operates in the range of 70% - 90% efficiency. The new technology has demonstrated the ability to operate at 99% efficiency. The potential energy savings from UST's Mini-EVR™, technology can save thousands of dollars of energy costs each year and reduce demand on the electric grid.

"The UST project to demonstrate a high-efficiency alternative to the ferroresonant transformer is just one of NYSERDA's many activities to help reduce electricity demand through technology development, said Paul D. Tonko, NYSERDA President and CEO. "The Mini-EVR is an excellent example of new, home-grown technology that can directly replace old technology in a more energy-efficient manner with the same or smaller footprint."

NYSERDA is working with UST to disseminate information on the energy savings potential of the Mini-EVR and its impact on New York State.

Since the ferro was developed in the 1930s as a means to condition electric power by controlling fluctuating voltages that can cause equipment to malfunction or fail, little has changed in the power-conditioning industry. While most electric transformers operate with efficiencies of 95% or more, the ferro typically operates below 90% efficiency but can be below 60% efficiency.



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Using technologies from its popular power conditioners for large applications, UST designed a smaller version to offer a high-efficiency alternative to the ferro. "It was clear that we could make a product with better the performance than the ferro, with huge energy savings and little or no difference in price," says UST President, Dr. Robert Degeneff, about the development of the Mini-EVR.

Estimates of the number of ferros in service in the U.S. reach into the hundreds of thousands of units, representing a huge potential for energy savings on the national scale as a retrofit or in new applications.

Founded in the Tech Valley region of New York State in 1991, Utility Systems Technologies, Inc. (UST) designs and manufactures electronic voltage regulation products as well as performs electrical system and transient analysis. On the strength of its engineering capabilities and the demonstrated pre-eminence of its power conditioning products, UST continues to grow, to develop cutting-edge solutions for power quality issues and forge new customer and market channel relationships around the world. More information about UST is available at www.ustpower.com.