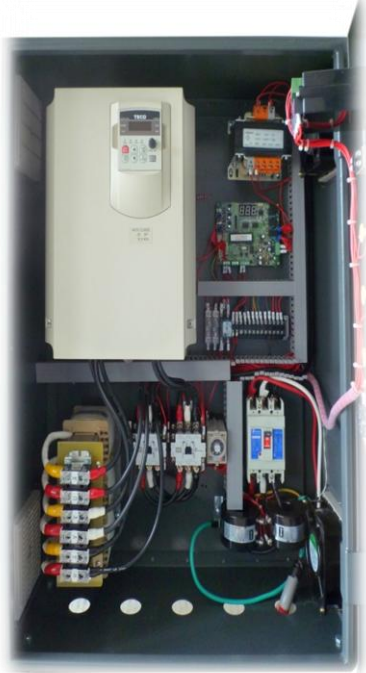


**The "Greenest" Energy is the  
Energy you never consume...**

*The Internationally Certified and Proven:*



## **HELP System**

*(High Efficiency Local Processor)*

The ONLY HVAC Retrofit System Available!

**DEMAND-CONTROL**

**IS BETTER THAN**

**DEMAND-RESPONSE**

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**COMBINES TWO PROVEN TECHNOLOGIES TO  
DRAMATICALLY REDUCE YOUR HVAC COSTS!**

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*Turns "On-Off" HVAC into demand-based, precision variable speed!*

- ◆ Operate your HVAC System based on demand, not on-off cycling
- ◆ Retrofit controls equipment starts saving you money immediately
- ◆ Turn-key installation; No modifications or changes to existing equipment
- ◆ Enhance motor operation & reduce power consumption
- ◆ Reduced maintenance & operational costs with an ROI of ~24 months
- ◆ Enhanced efficiency, decreased wear, & extended equipment life
- ◆ Algorithm driven Smart Microprocessor requires No Programming
- ◆ Optimal efficiency and energy savings exceeds DoE & DoD objectives

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*The HELP System:*

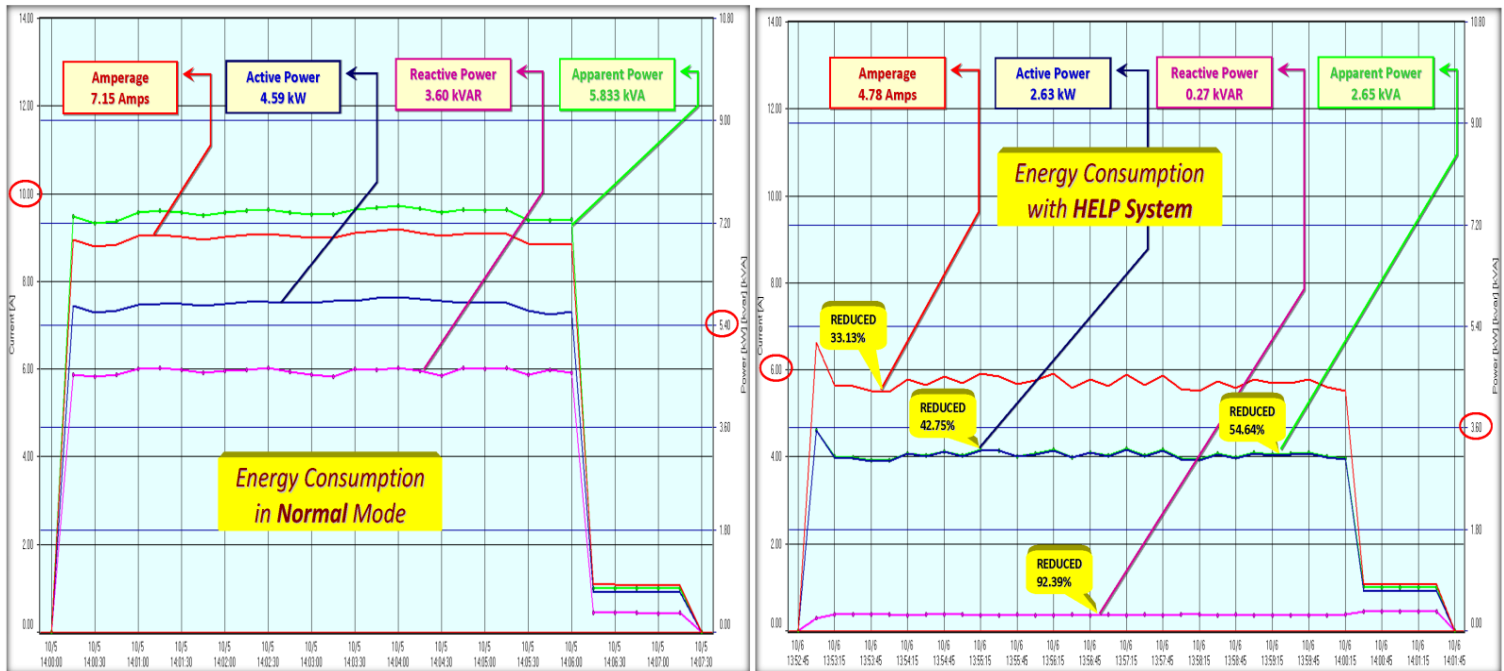
- ◆ Qualifies for the **SmartSaver<sup>®</sup>** and other Incentive programs
- ◆ Validated, Certified, & Accredited by **SGS Group** Worldwide Testing
- ◆ WINNER of 2010 **InnoVision Award** for Technology & Innovation

Smart Microprocessor Technology is used by major HVAC manufacturers in their premium systems; *HELP* gives you all of these advantages...

***Without Replacing Your Existing HVAC Equipment!***

# SINGLE-CYCLE (DETAILED) TESTING OF HVAC ENERGY CONSUMPTION

Actual HVAC Energy test data recorded at a major manufacturing facility  
 Energy consumption testing performed by a major utility company



## Single Run Cycle Analysis of Normal vs. HELP System HVAC Savings

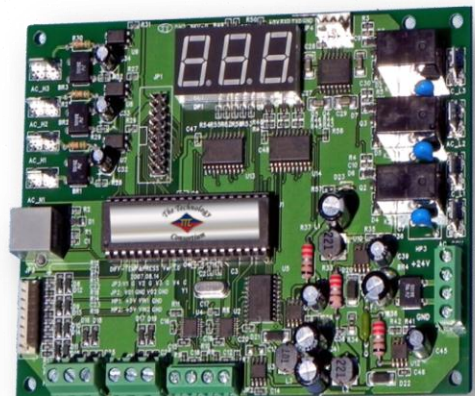


### Data Analysis resulted in:

- ↓ Amperage (A) Reduced by 33.13%
- ↓ Active Power (kW) Reduced by 42.75%
- ↓ Reactive Power (kVAR) Reduced by 92.39%
- ↓ Apparent Power (kVA) Reduced by 54.64%
- ↑ Power Factor Improved from .793 to .991

### Ideal HELP System Applications are:

- ◆ All Existing HVAC & HVAC-R Systems
- ◆ Cooling Tower Pumps and Fans
- ◆ Chiller, and Similar Pump Applications
- ◆ Air-Handler Fans (VAV)
- ◆ Boiler Feed-Water Pumps
- ◆ Any 3-phase Motor with a Varying Load



**VARIABLE FREQUENCY DRIVES (VFDs) HAVE BEEN PROVEN TO REDUCE ENERGY COSTS WHILE INCREASING EQUIPMENT LIFE!**

**The HELP System Redefines HVAC Energy Savings:**

- ◆ Patented Smart Microprocessor-Algorithm optimizes HVAC operation
- ◆ Fuzzy-logic and Stepless Control provides precise reaction to demand and maximizes HVAC efficiency
- ◆ Bypass feature assures uninterrupted HVAC operation
- ◆ Balanced and conditioned energy protects compressor from damage
- ◆ Retrofit equipment does not replace any existing HVAC components
- ◆ Reduced humidity & a more stable temperature in HVAC installations
- ◆ Decreased drive component wear, reduced maintenance, increased motor life, and improved performance
- ◆ Significantly lowers facility operation and maintenance costs!

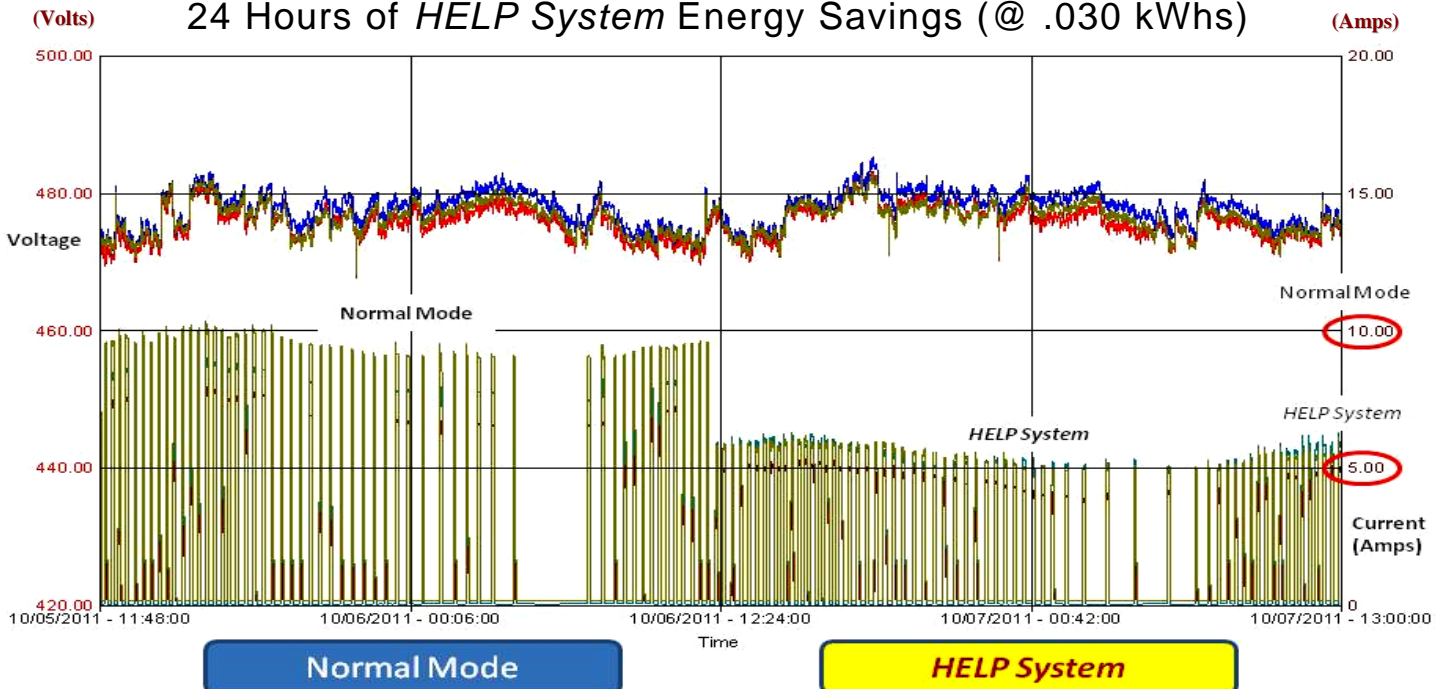
**Actual Energy Comparison of HVAC Normal Operation vs. HELP System**

**48 hours of energy consumption testing on a standard HVAC unit**

24 Hours of Normal Operation (@ .046 kWhs)

Vs.

24 Hours of HELP System Energy Savings (@ .030 kWhs)



**HVAC Testing Verifies a Total 30% kWh (Cost) Reduction**

*Don't Assume, Contact us for the Facts...*

**HELP** is the ONLY Retrofit HVAC Control System Available!



*We Manufacture Solutions...*

*We are proud to be a Tier One Supplier to:*



Please visit our website at: <http://www.TheTechnologyConsortium.com> for additional information on the *HELP* System and *SPEED* Series technologies!



*For immediate action please contact The Technology Consortium at:*

[Engineering@TheTechnologyConsortium.com](mailto:Engineering@TheTechnologyConsortium.com)