

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



Introducing the Internationally Recognized & Proven:



## **HELP System**

(**H**igh **E**fficiency **L**ocal **P**rocessor)

**Turns your On-Off cycling motors into demand-based precision variable speed!**

**Smart Microprocessor Technology is now available in North America!**

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## **SMART MICROPROCESSOR MOTOR CONTROL WILL SUBSTANTIALLY REDUCE YOUR ENERGY COSTS!**

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### The **HELP System**:

Qualifies for the **SmartSaver<sup>®</sup> Incentive program**

WINNER of 2010 **InnoVision Award** for Technology & Innovation

Validated, Certified, & Accredited by **SGS Group** Worldwide Testing

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### **New Smart Microprocessor Controlled VFD Technology:**

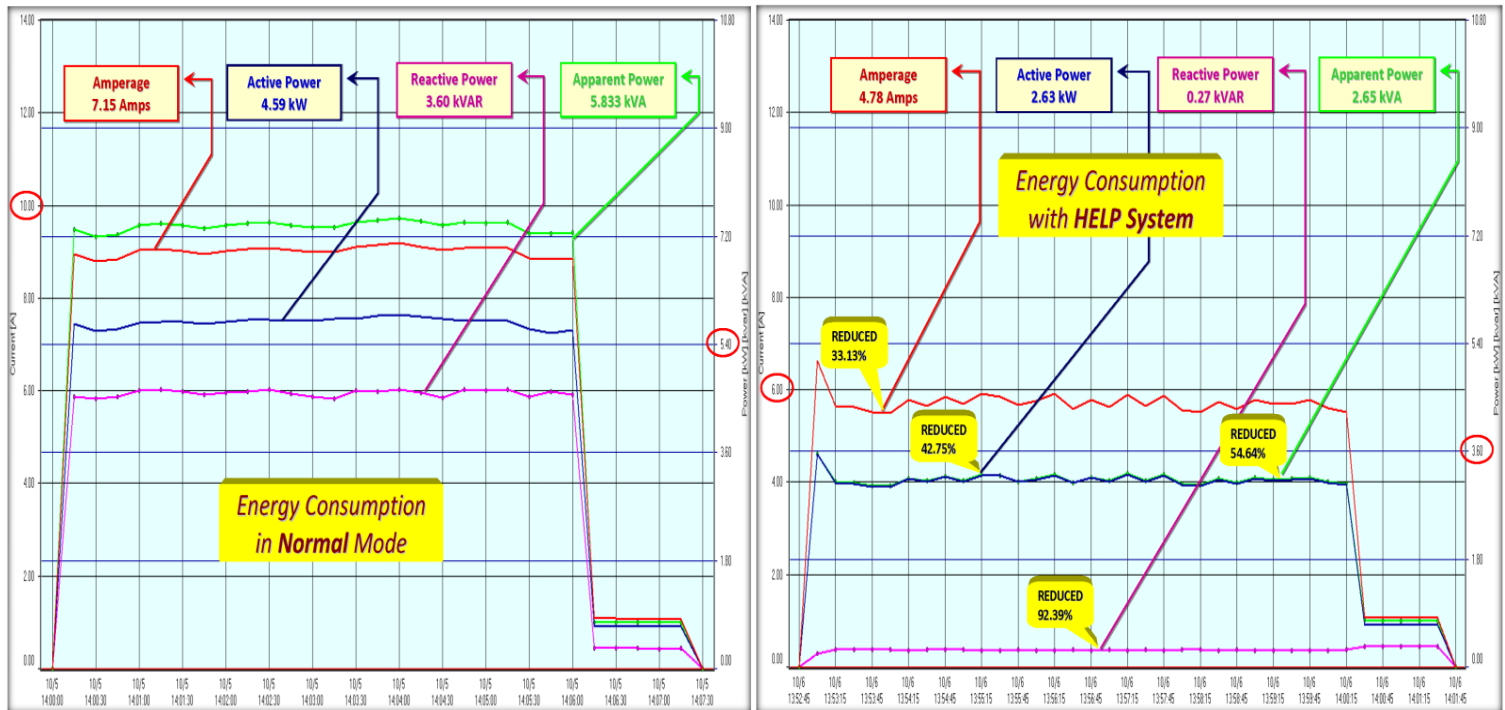
- ◆ Operates your motors based on demand, not on-off cycling,
- ◆ Retrofit controls equipment starts saving you money in less than an hour
- ◆ Turn-key installation; **NO modifications** or changes to existing equipment
- ◆ Enhance motor operation & **reduce power consumption**
- ◆ **Reduced maintenance** & operational costs with an **ROI** of ~24 months
- ◆ Enhanced efficiency, decreased wear, & **extended equipment life**
- ◆ Optimal efficiency and energy savings **exceeds DoE & DoD objectives**

Get all of the advantages of Smart Microprocessor Technology used by major HVAC manufacturers...

**Without replacing your existing equipment!**

# SINGLE-CYCLE (DETAILED) TESTING OF ENERGY CONSUMPTION

HVAC Energy test data recorded at a major manufacturing facility  
Energy consumption testing performed by a major power producer



## Single Run Cycle Analysis of Normal vs. HELP System Energy 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 HVAC & HVAC-R Systems,
- ◆ Cooling Tower Pumps and Fans,
- ◆ Chiller Pumps,
- ◆ 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 Energy Savings:**

- ◆ **Significantly reduces power costs!**
- ◆ Patented Smart Microprocessor-Algorithm **optimizes VFD operation,**
- ◆ We can incorporate **any VFD manufacturer** you require,
- ◆ “Fuzzy-logic” and Stepless Control provide optimum VFD precision and reaction to demand, **maximizing motor efficiency,**
- ◆ Bypass features **assures uninterrupted equipment operation,**
- ◆ Balances & conditions energy to **protect motor from harmful effects,**
- ◆ **Retrofit equipment** significantly reduces kW consumption (Affinity Law),
- ◆ **Reduced humidity** & a more stable temperature in HVAC installations,
- ◆ Decreased drive component wear, reduced maintenance, increased motor life, and **improved motor performance,**
- ◆ **Significantly lowers facility operation and maintenance costs!**

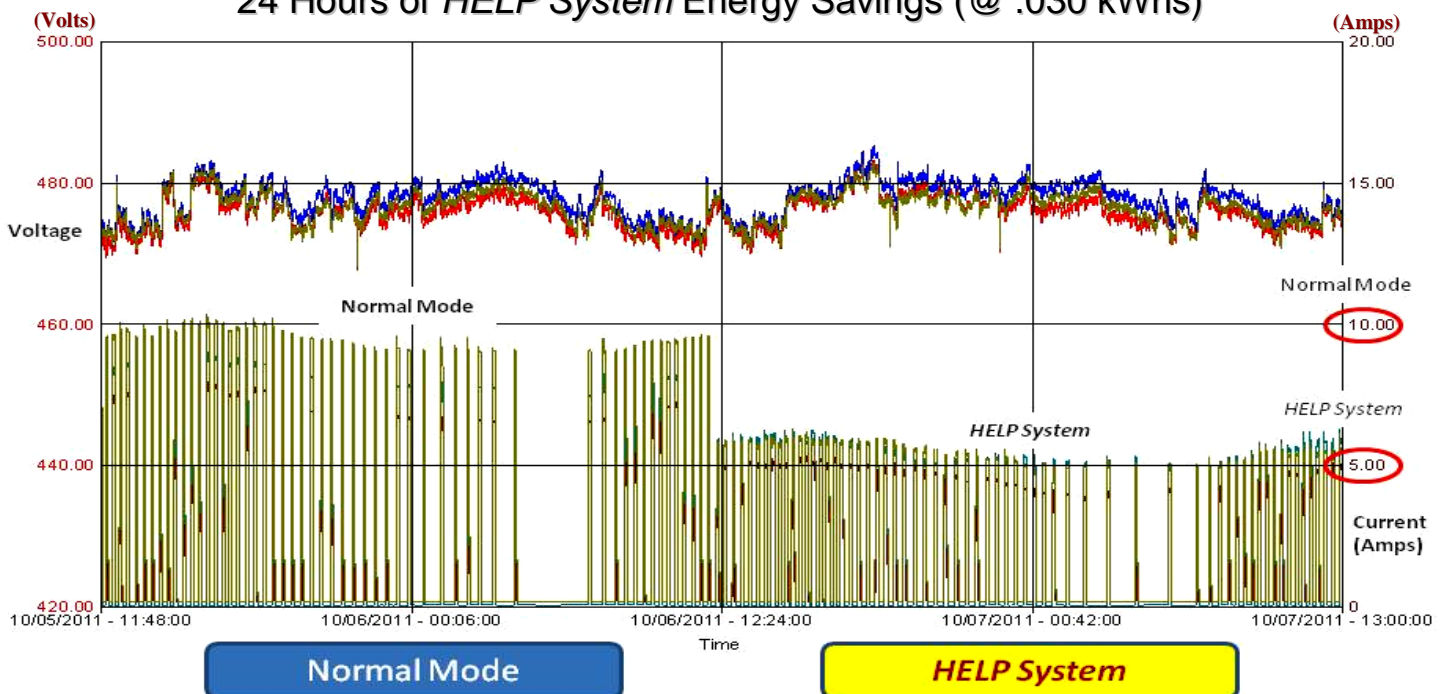
## **Actual Comparison of Normal Operation vs. HELP System**

**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)



**Testing Verifies a 35% kWhs Reduction**

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



***We Manufacture Solutions...***

*We are proud to be Tier 1 Suppliers to:*



Please visit our website at: <http://www.TheTechnologyConsortium.com> for additional information on the benefits of the *HELP System* technology!



*For immediate action please contact Ron Hoffman at:*

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

**864-277-1645 (O) ◆ <http://www.TheTechnologyConsortium.com> ◆ 864-884-9749 (M)**