

## *Who should attend the Energy Efficient Transformers Workshop?*

- ◆ Facility Engineers - industrial, institutional, & municipal
- ◆ Energy Managers - industrial, institutional, & municipal
- ◆ System Integrators
- ◆ ESCOs
- ◆ Value Added Resellers
- ◆ Utility Representatives
- ◆ Construction Managers
- ◆ Design/Build Contractors
- ◆ Property Management Firms
- ◆ Consulting Engineers

## *Who is The Powersmiths Company?*

Powersmiths International Corporation is a power quality company; they invent, develop, test, manufacture, market, and support new design transformers and other electrical system technologies.

## *What is the FORGE?*

The FORGE is a training/demonstration workshop made possible through a three phase, 5 wire power feed and a system of resistive loads and several racks of computer power supplies that accurately simulate a real world commercial electrical load.

By applying to a typical 208/210 volt transformer the FORGE demonstrates the additional stress created and associated "transformer losses" as well as the heat generated. This is then compared to a Harmonic Mitigating type transformer to demonstrate typical transformer performance. The purpose is to demonstrate typical and K-rated transformers losses, both in energy and dollars compared to new technology.

*You are welcome to bring your own transformer; however, we must have prior notice!*

WasteCap Resource Conservation Network  
122 N. Main Street  
Concord, NH 03301

*Please join us for a FREE workshop on*

# **ENERGY EFFICIENT TRANSFORMERS**



*a workshop presented by*

**The Powersmiths Company**

**December 11, 2003  
Sheraton Tara, Nashua  
11 Tara Blvd., Nashua, NH**

*Your choice of sessions:*

*Session I: 8:00 a.m. - 11:30 a.m.  
Session II: 1:00 p.m. -- 4:30 p.m.*

*Organized by the New Hampshire Industries of the Future  
Industrial Efficiency Partnership and  
the Northeast Resource Group*



Join the New Hampshire Industries of the Future Industrial Efficiency Partnership and the Northeast Resource Group  
for an

## Energy Efficient Transformers Workshop

December 11, 2003

Your Choice of Sessions

Session I: 8:00 a.m. to 11:30 a.m.

Session II: 1:00 p.m. to 4:30 p.m.

at the Sheraton Tara, Nashua

### During the Seminar you will:

- ◆ Observe the interaction of electronic equipment on new and existing electrical systems.
- ◆ Take a hands-on look at both linear and non-linear loads and their harmonic profiles.
- ◆ See the impact of electronic loads on conventional transformers and cable installations.
- ◆ Compare typical harmonic correction approaches, including K-rated transformers.
- ◆ Study Energy Efficient Harmonic Cancellation Transformers in action.
- ◆ Review typical Powersmiths applications for new and existing systems, including drives
- ◆ Take home the Energy Savings and Payback Calculator (ESP calculator), a practical tool to evaluate the payback from energy savings that Powersmiths products deliver.

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THE SHERATON TARA IS LOCATED OFF EXIT 1, SPIT BROOK ROAD, OFF THE EVERETT TURNPIKE. GO TOWARDS SO. NASHUA; THE HOTEL, VISIBLE FROM THE HIGHWAY, IS ON YOUR RIGHT.

## REGISTRATION

### To register:

- on the web: [www.nhiof.org/workshops/transformers.asp](http://www.nhiof.org/workshops/transformers.asp)
- fax - 603-224-2872, • phone - 603-224-1517
- WasteCap, 122 N. Main St., Concord, NH, 03301

There is No Charge for this workshop.

**Please register! This will guarantee you a seat and ensure plenty of food and workshop materials!**

- Please register me for Session I. Registration starts at 8:00 a.m.
- Please register me for Session II. Registration starts at 12:00 noon.

*Refreshments will be served at both sessions.*

For mail or fax registration, please complete the following:

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

- Add my email address to the NHIOF-IEP list serve. I want to be informed of workshops/events, possible grant opportunities and pertinent news.

**Workshop space is limited! Registration deadline is December 9, 12:00 p.m., 2003.**

We will provide a certificate of attendance that may be used to track CEU credits.