

## Do you want:

- A new career as an Advanced Energy Assessor?
- To upgrade your skills?
- To become your company's Energy Champion?
- To learn how to uncover hidden wastes?
- To find low cost practical projects to reduce your operating budget?
- Projects for your Six Sigma or Lean Manufacturing Teams?



## Energy Solutions Workshops



**“Learn to focus on what is important.” TCM**

[www.savingwithenergy.com](http://www.savingwithenergy.com)

## You will Learn:

1. How to use existing data to benchmark and target key projects.
2. To use data loggers to identify and quantify saving opportunities.
3. How to implement the key projects to enable reducing energy costs by 10% with paybacks of less than 1 year.

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LOW COST-HIGH VALUE ENERGY SOLUTIONS

# 4 Day Energy Solutions Workshop

## Day 1

### Key Areas for Energy Cost Reduction.

In this one day workshop you will learn how to use existing data to benchmark and target key projects.

1. Using the important numbers on utility bills to find hidden savings opportunities.
2. The value of interval data and how to obtain and use it.
3. How weather effects your utility bill and what you can do about it.
4. How productivity measures lead to savings.
5. Learn the symptoms which identify key project areas.
6. Learn about practical low cost – high value energy projects.
7. Establish a work plan to perform an assessment to identify saving projects in your home or work place.

## Day 2

### Using measurement tools to find and verify savings.

In this one day hands-on workshop you will learn to use data loggers and other measurement tools to identify and quantify energy saving projects.

1. Learn safety procedures for measuring electric currents.
2. You will receive your own data logger.
3. See live demonstrations of data loggers, CTs, infrared cameras, flow meters, and software commonly used in energy audits.
4. Learn to use data loggers, CTs, light meters, temperature and RH meters, and software.
5. Learn how to translate graphs from data loggers to identify savings opportunities.
6. Establish a work plan to identify projects at your home or work place.



## Days 3 and 4

### Implementing Low Cost – High Value Projects.

In this two day intensive workshop you will learn how to select and prioritize key projects including calculations, cost analysis, and work plans for 20+ projects.

1. Receive completed examples for each of the 20+ projects presented.
2. Learn to use worksheets to determine the savings and costs of each project.
3. You will learn the bounding parameters which help to determine the feasibility of each project.
4. You will be given sample data measurements and assessment observations to determine projects, perform calculations, and develop potential savings plan.
5. You will have the knowledge, skill, and solutions to reduce your energy cost by 10% with an average payback <1 year.
6. You will have one year of a back office subject matter expert support team .

Includes the *Energy Solutions Handbook™*



## Meet your instructor:

**Thomas C. Mort**  
CEM, Director



A recognized leader in the field of energy management.

Thomas has led hands-on energy training workshops in hundreds of industrial facilities world wide.

With a BS in Nuclear Engineering, 17 years experience in nuclear power plants, energy manager for a Fortune 100 company with over 250 plants, and the developer of a successful international energy consulting company, Thomas brings a wealth of experience to the workshops.

A Certified Energy Manager since 1997, Thomas has received numerous US and International Environmental and Energy Awards.

Thomas has developed an efficient method to take his years of experience and effectively transfer this knowledge and skill to facility managers, engineers, and EH&S leaders.

His process, often referred to as a Kaizen Blitz for energy, is highly effective in achieving significant measurable results in a short time.

## Who Should Attend?

- ✓ Energy and Facility Managers/Engineers
- ✓ Six Sigma and Lean Engineers
- ✓ Energy and Facility Assessors
- ✓ Building owners and managers.
- ✓ Municipal energy managers.
- ✓ Environmental Health and Safety managers and engineers
- ✓ Technicians, Mechanics, or Electricians interested in upgrading skills.
- ✓ Industrial and Environmental Students



## Business Sectors

- Automotive parts manufacturers
- Containers of glass and plastic
- Injection molding
- Electronics, appliances, tools
- Foundries, mines, and heat treating
- Chemical processing
- Poultry and food processing
- Paper, packaging, and printing
- Commercial: Tech centers, labs, warehouses, hotels, grocery stores, and restaurants.
- Residential

**We enable you to implement practical energy solutions in key areas of your facility with our structured data driven process.**

**Metrics:**

Utility bill analysis, trending of use vs productivity and weather, tariff analysis, and project funding alternatives.

**Demand Control:**

Load shifting, load shedding, power factor, shut it off when not in use, reducing loads, and demand response options.

**HVAC:**

Supply and exhaust air management, temperature control, heat exchangers, economizers, and load following controls.

**Compressed Air:**

Shut off and isolate, pressure, blowers and vacuums, flow controllers and tanks, nozzles, distribution, and partially loaded compressors.

**Lighting:**

Positioning, intensity, efficiency, occupancy sensors, leveraging ambient light.

**Heat Recovery:**

Identification of low grade heat losses and potential uses, free cooling, economizers, and insulation.

**Differentiators:**

- 1) Focus on High Value – Low Cost Energy and Environmental Solutions (average less than 1 year payback)
- 2) Complete DIY pre-designed practical projects including examples with specifications and cost details.
- 3) 100% satisfaction warrantee.
- 4) Experience: 28 international countries, > 600 industrial facilities.
- 5) Hands on training using measurement tools
- 6) One year of back office subject matter expert support for each project.

## Registration and Fees

Register for an Energy Solutions Workshop on-line at [www.savingwithenergy.com](http://www.savingwithenergy.com)

Or call our office at 210-858-8454

Registration is required 20 days prior to the beginning of a workshop.

Workshop times are:

Day 1: Tuesday: 8:30 – 5:00

Day 2: Wednesday: 8:30 – 5:00

Day 3: Thursday: 8:30 – 5:00

Day 4: Friday: 8:30 – 3:00

Fee: \$1,450

Cancellation Policy:

Cancellations more than 10 days prior to the workshop will be refunded less 15% or you may send a substitute or transfer to a subsequent course at no extra cost.

Warrantee:

If you are not satisfied with the workshops, return the course materials and receive a full refund.



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