

GLOBALCON™

Energy, Power, and Facilities Management Strategies and Technologies

MARCH 30-31, 2011 PENNSYLVANIA CONVENTION CENTER
PHILADELPHIA, PENNSYLVANIA

SHOW NEWS

FOR ENERGY PROFESSIONALS

Globalcon 2011: The New Energy Frontier

Handling the expiration of rate caps and formulating best practices and optimum strategies



Dynamic Philadelphia: focal point of the dramatic changes in energy. This powerful and exciting city reflects the innovative, action-packed program that awaits you at GLOBALCON 2011. At the heart of activity in the energy industry in the northeastern U.S., the city's convention center is a modern, fully equipped venue where the best and brightest energy professionals can share their views on the opportunities and pitfalls ahead in the coming year—and their impact on you!

Energy users in the mid-Atlantic states are faced with a host of new challenges this year. Companies need to have the latest information to stay competitive as new energy standards take hold across the nation, including the expiration of electric rate generation caps, effective January 1 in the state of Pennsylvania. GLOBALCON 2011, hosted by Philadelphia Gas Works, is the one place where energy professionals can assure they remain up to speed on cost effective strategies to stay competitive in the rapidly changing energy landscape. Review many of the highlights at GLOBALCON 2011 and how they can help you come up with effective strategies for the new year.

EXPIRATION OF ELECTRIC GENERATION RATE CAPS

Under the provisions of the 1997 *Electricity Generation Choice and Competitive Act*, electric rates, which are comprised of generation, transmission and distribution, were capped to ease the transition to competitive markets. The Pennsylvania Public Utility Commission expects customers may see an increase in their bills after the expiration of rate caps. GLOBALCON 2011 covers in detail the strategies that every customer should consider including:

- Purchasing electricity in a deregulated market
- Implementing best practices in energy management and demand response programs
- Utilizing CHP and natural gas technologies
- Utilizing green energy and renewable energy advancements

ENERGY MANAGEMENT AND DEMAND RESPONSE PROGRAMS

Randy Haines, Energy Manager at Thomas Jefferson University has developed an outstanding session on "Best Practices in Energy Management," which will portray messages relating to energy excellence through people. You will hear about the sustainability program at Christiana Health Care System, the future trends in energy management, and the Operational Improvement and Training at NYU.

The Demand Response Program session will feature speakers from the Building Codes Assistance Project, Northeast Energy Efficiency Partnerships Association, North America Power Partners, PJM Interconnection, and the U.S. Green Building Council. You will hear updates on energy management and demand response programs at corporate companies, as well as new design implementation policies for buildings.

HIGH PERFORMANCE BUILDINGS

Attendees will gain knowledge on the implementation of ASHRAE Standard 189.1 and renewable energy opportunities for buildings in a session put together by Nick Stecky, President of NJS Associates. Mary Alcaraz, Principal, EwingCole, has put together an outstanding session on Building Rating Systems. This session will detail EPA's Portfolio Manager, the LEED rating system, and Green Globes building rating system.

GREEN AND RENEWABLE ENERGY

Attendees will get up to speed on renewable energy developments and find out the latest information on what businesses are doing to reduce their carbon footprint. Katherine Gajewski, Director of Sustainability for the Mayor's Office of Sustainability, with the help of Philadelphia Gas Works, has put together a session on alternative fuel vehicles and biodiesel. Attendees will hear information about CNG fueling options and electric vehicles in Pennsylvania.

ENERGY POLICY

The impact of the new Congress on energy legislation will be presented in a special session developed by Brad Penney, Director of Government Relations, Alliance to Save Energy. This two hour panel session will discuss the impact of the new members in Congress, the Clean Energy Standard, energy efficiency financing issues, and ARRA funding updates. Constellation Energy has put together a session where you will hear high level speakers, including Commissioner Robert Powelson with Pennsylvania Public Utility Commission, discuss the future of energy policy.

DEREGULATION: CRITICAL ISSUES

Competitive selection of natural gas and electricity has had a dramatic effect on the job of the energy manager. Not only must they pay attention to consuming less energy, but they also must continue to watch the future cost of energy, and take advantage of opportunities as they become available. A session on deregulation will focus on the current issues and opportunities available to the energy manager with regards to purchasing energy in the competitive marketplace and understanding the risks associated with it.

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Refer to website www.GLOBALCONevent.com on the program as regularly updated and new sponsors added.

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Association of Energy Engineers
4025 Pleasantville Road, Suite 420
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Show offers \$200 Conference discount for early registration

The Association of Energy Engineers, presenter of GLOBALCON 2011, has announced a V.I.P. conference discount offer of \$695 for registrations made prior to **March 18, 2011**. For registrations submitted prior to this deadline, attendees will save \$200 off the regular registration fee of \$895.

AEE points out that this discount offers huge potential savings for organizations that want to maximize their education budgets and could take advantage of this special opportunity to send more of their employees to this premier Northeast event.

This offer excludes AEE membership fees, seminar fees, and any charges relating to exhibiting at the GLOBALCON Expo. This V.I.P. discount offer may not be combined with any other discount offers nor with package rates, and is valid only for the GLOBALCON 2011 show.

To qualify, simply attach the discount coupon at right to your completed registration form and send it along with your payment prior to the **March 18** deadline. To register with this discount online, enter coupon code: GCEarly1 at checkout.

\$200 REGISTRATION DISCOUNT COUPON

Simply attach this coupon to your completed registration form and return with your payment prior to the conference registration deadline of **March 18, 2011**. To register online, please visit www.globalconevent.com and enter code GCEarly1 at checkout.

Free interactive workshop presentations in Expo hall

These interactive presentations will give you vital data and proven methods for cutting energy expenses, providing state-of-the-art operational improvements, as well as demonstrating how the new products and services on display can have practical applications for your business.

In addition, a number of recognized industry experts will offer case studies, retrofit success stories, and system integration techniques that can be applied immediately in your organization to increase efficiency and improve profitability. A sample of the workshops presented at GLOBALCON 2010 include:

Picture This: Infrared Cameras Boost Energy Conservation
Daylighting Controls
99% Efficient Hot Water Production Using the Direct Contact Method—Environmentally Friendly and Safe
The Fundamentals of Financing Commercial Solar Systems
Adiabatic Humidification
Assessing Your Building's Solar Potential—How to Seize the Day

It's Not Easy Being Green
Achieving Best Market Price for Energy Supply
Features and Benefits of Submeters
State of the Art Concentrated Tri-Generation Solar Systems and Associated Technologies
Solar 101
The Technology & Development of the Cast Copper Rotor Motor Power Systems Help for Energy Efficiency
Applications, Management, Energy Savings



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Event sponsorships still available

Exhibiting companies at GLOBALCON 2011 can maximize their exposure and improve their marketing reach by becoming official event sponsors. Among the options available for sponsorship are exhibit hall coffee, receptions, and related promotional items.

For those companies interested in pursuing this option or interested in obtaining more information on specific sponsorship opportunities still available for GLOBALCON, please contact Lauren Lake at the Association of Energy Engineers. You may phone her at (678) 687-4997, or you may contact her by email at lauren@aeecenter.org.

CONFERENCE

Dynamic session kicks off this year's conference

Opening Session: New Markets in Energy / Wednesday, March 30, 2011 ■ 9:15 – 11:00 am

Chair: DOUGLAS I. OLIVER, Senior Vice President, Marketing & Corporate Communication, Philadelphia Gas Works

9:15-9:20 am

Welcome from AEE
ALBERT THUMANN,
P.E., C.E.M.,
Executive Director,
Association of Energy
Engineers



Thumann

9:20-9:30 am

Welcome from
Host Sponsor, PGW
CRAIG WHITE,
President & CEO,
Philadelphia Gas Works



White

9:30-10:00 am (INVITED)

Plan for an Energy
Independent State
TOM CORBETT,
Governor,
State of
Pennsylvania



Corbett

10:00-10:30 am

Update on the New World
of Electric Rates
JAMES CAWLEY,
Chairman,
Pennsylvania Public
Utility Commission



Cawley

10:30-11:00 am

Kraft Foods Sustainability
Initiatives & Efforts
DIANE WOLF,
Vice President of Global Safety,
Environment/Sustainability,
Kraft Foods



Wolf

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AT-A-GLANCE

Conference and seminar program overview

DAY ONE ■ WEDNESDAY, MARCH 30, 2011

Conference Opening Session: New Markets in Energy ■ 9:15 – 11:00 am

Luncheon in Exhibit Hall for Conference Attendees ■ 12:00 noon

Exhibits Open ■ 10:00 am – 4:00 pm / Attendee Reception – 4:00 pm

Track 1—Policy

SESSION 1A:
WEDNESDAY, March 30/2:00–4:00 pm

Climate Legislation
and Energy Policy

Track 2—Buildings

SESSION 2A:
WEDNESDAY, March 30/2:00–4:30 pm

Building Rating
Systems

Track 3—Green Energy/Carbon Reduction

SESSION 3A:
WEDNESDAY, March 30/2:00–4:00 pm

Renewable Energy
Technology Update

Track 4—Energy Management

SESSION 4A:
WEDNESDAY, March 30/2:00–4:00 pm

Natural Gas Development
and Technologies

DAY TWO ■ THURSDAY, MARCH 31, 2011

SESSION 1B:
THURSDAY, March 31/9:00–11:00 am

Deregulation:
Critical Issues Forum

SESSION 2B:
THURSDAY, March 31/9:00–11:30 am

Future of Building Energy
Codes and Demand Response

SESSION 3B:
THURSDAY, March 31/9:00–11:30 am

CHP

SESSION 4B:
THURSDAY, March 31/9:00–11:00 am

Best Practices in Energy
Management

Luncheon in Exhibit Hall for Conference Attendees ■ 12:00 noon

Exhibits Open ■ 10:00 am – 2:00 pm

SESSION 1C:
THURSDAY, March 31/2:00–4:00 pm

The Future of Energy
Policy

SESSION 2C:
THURSDAY, March 31/2:00–4:00 pm

Building Energy Efficiency
and Carbon Reduction

SESSION 3C:
THURSDAY, March 31/2:00–4:00 pm

Alternative Fuel Vehicles/
Biodiesel

SESSION 4C:
THURSDAY, March 31/2:00–4:00 pm

Gas and Electric
Markets

TWO-DAY AND THREE-DAY SEMINAR OFFERINGS:

Fundamentals of Sustainable Development and Carbon Reduction (Prep: CSDP certification)

March 28-29 / 9:00 am – 5:00 pm / 1.6 CEU or 16 PDH

Fundamentals of Building Energy Simulation (Prep: BESA certification)

March 28-30 / 9:00 am – 5:00 pm / 2.0 CEU or 20 PDH

Fundamentals of Buying & Selling Energy (Prep: CEP certification)

March 28-30 / 9:00 am – 5:00 pm / 2.0 CEU or 20 PDH

Fundamentals of Energy Auditing (Prep: CEA certification)

March 28-30 / 9:00 am – 5:00 pm / 2.4 CEU or 24 PDH

Fundamentals of Residential Energy Auditing (Prep: REA certification)

March 28-30 / 9:00 am – 5:00 pm / 2.4 CEU or 24 PDH

Fundamentals of Using RETScreen® Tools for Energy Project Analysis (Prep: CRU certification)

March 28-30 / 9:00 am – 5:00 pm / 2.0 CEU or 20 PDH

Fundamentals of High Performance Building Design and Engineering (Prep: HBP certification)

March 29-31 / 9:00 am – 5:00 pm / 2.4 CEU or 24 PDH

Fundamentals of Measurement & Verification for Energy Managers & Emission Traders: Applying the IPMVP (Prep: CMVP certification)

March 29-31 / 9:00 am – 5:00 pm / 2.0 CEU or 20 PDH

Fundamentals of Renewable Energy: Technologies, Applications, Strategies (Prep: REP certification)

March 29-31 / 9:00 am – 5:00 pm / 2.4 CEU or 24 PDH

For more information on seminars see pages 4, 5, and 6

SPONSORS

Powerful sponsors develop and support the show

ABOUT THE SHOW HOST:



The Philadelphia Gas Works (PGW) is owned by the City of Philadelphia and is the largest municipally owned gas utility in the country. It manages a distribution system of approximately 6,000 miles of gas mains and service pipes supplying approximately 500,000 customers. PGW's operations are managed by a nonprofit corporation, the Philadelphia Facilities Management Corporation (PFMC), which is appointed by the Mayor of Philadelphia. When it comes to energy options, natural gas is the environmentally sound and economically savvy choice. PGW has been fueling Philadelphia's economic development since 1836, establishing a record of exceptional experience and a tradition of outstanding service that's hard to beat. PGW proactively addresses the specialized needs of our customers and provides them with solutions that ensure the best environmental and economic value in today's volatile energy market. We are driven by customer service and dedicated to providing energy solutions with both operational and economic advantages. PGW is devoted to developing lasting relationships with our customers and strives to provide each customer with superior, cost efficient energy service. For more information, please visit www.pgworks.com.

ABOUT THE BRONZE SPONSOR:



North America Power Partners LLC (NAPP) is a full-service Demand Response Provider. North America Power Partners LLC will represent and manage a facility's strategic assets in the wholesale electric markets and state programs.

ABOUT THE CORPORATE ENERGY LEADER:



"Making a Sustainable Difference in Our World." Sustainability is about preserving our world – land, air, water, and people. At Kraft Foods, our sustainability journey has put us on a path that is making a real difference. But, we can't do everything. So we're focusing on those areas where we can have the greatest impact and that means the most to our business performance. Thousands of Kraft Foods employees around the world help us deliver on our commitments in six focus areas: agricultural commodities, packaging, energy, water, waste, and transportation/distribution.

ABOUT THE GOVERNMENT ENERGY LEADER:



The U.S. Department of Commerce, National Technical Information Service (NTIS) serves as the largest central resource for government funded scientific, technical, engineering, and business related information available today. For more than 60 years NTIS has assured businesses, universities, and the public timely access to approximately three million publications covering over 350 subject areas. Our mission supports the U.S. Department of Commerce mission to promote the nation's economic growth by providing access to information that stimulates innovation and discovery.

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Sustainable Facility
The Architects Newspaper

CONFERENCE

The latest information for energy professionals

Track 1 – Policy

SESSION 1A:

WEDNESDAY, MARCH 30 • 2:00–4:00 pm Climate Legislation and Energy Policy

Chair: BRAD PENNEY, Director of Government Relations, Alliance to Save Energy

2:00-4:00 pm

This panel discussion will concentrate on an early look at the prospects for energy legislation in the 112th Congress. The panel will discuss the following topics:

- Impact of the Republican takeover of the House of Representatives
- Impact of the new committee chair on the House Energy and Commerce Committee
- Clean Energy Standard: Is this the “new” Renewable Energy Standard?
- Energy efficiency financing issues: PACE, net reserve, revolving funds
- ARRA or “stimulus” funding update
- Role of tax incentives in a more centrist Congress
- Prospect for smaller energy bills on selected issues, such as building codes and appliance standards

Panelists:

BRAD PENNEY, Director of Government Relations, Alliance to Save Energy

JOY BERGY, Federal Policy Manager, Citizens for PennFuture

ROBERT WILKINS, President, Danfoss

DAVID B. CALABRESE, Senior Vice President, Policy, Air-Conditioning, Heating and Refrigeration Institute

SESSION 1B:

THURSDAY, MARCH 31 • 9:00–11:00 am Deregulation: Critical Issues Forum

Chair: RICHARD J. COSTELLO, P.E., M.S.E.M., B.S.M.E., C.E.M., President, Acela Energy Group, Inc.

9:00-9:30 am

Deregulation from a Power Marketers View Point in Pennsylvania
TOM HAWES, Director, Retail Sales, DPL Energy

9:30-10:00 am

Pennsylvania Update on Competitive Power Choice
KENNETH ANTOS, Vice President-Sales, World Energy

10:00-10:30 am

Customer Choice—From a Customer’s View
DAVID G. BENTON, Vice President & General Manager, The Rittenhouse Hotel & Condominiums Residences

10:30-11:00 am

The Effect of Natural Gas Prices on the Energy Procurement Process
RICHARD J. COSTELLO, P.E., M.S.E.M., B.S.M.E., C.E.M., President, Acela Energy Group, Inc.

SESSION 1C:

THURSDAY, MARCH 31 • 2:00–4:00 pm The Future of Energy Policy

Chair: DAVID FEIN, Vice President, Energy Policy, Constellation Energy

2:00-2:30 pm

The Future of Energy Policy Introduction
DAVID FEIN, Vice President, Energy Policy, Constellation Energy

2:30-3:00 pm

A National and Regional Perspective
GLENN THOMAS, President, GT Power Group

3:00-3:30 pm

The Future of Energy Policy for the State of Pennsylvania
ROBERT F. POWELSON, Commissioner, Pennsylvania Public Utility Commission

3:30-4:00 pm

Panel Discussion and Q&A

Track 2 – Buildings

SESSION 2A:

WEDNESDAY, MARCH 30 • 2:00–4:30 pm Building Rating Systems

Chair: MARY ALCARAZ, P.E., LEED AP, LC, Principal, EwingCole

2:00-2:30 pm

LEED Credentialing Maintenance

KIM ILARDI, LEED AP BD+C, Sustainable Industry Specialist, The Whiting-Turner Contracting Company

2:30-3:00 pm

Portfolio Manager ENERGY STAR’s Building Rating Tool
EMILY LINN, Environmental Protection Specialist, U.S. EPA Region 1

3:00-3:30 pm

LEED EBOM: Tools for Success

AARON DAHLSTROM, P.E., LEED AP, In Posse—A Subsidiary of AKF

3:30-4:00 pm

LEED for New Construction vs. LEED for Healthcare—A Case Study

JASON E. FIERKO, P.E., C.E.M., LEED AP, Lead Mechanical Engineer, Ewing Cole

4:00-4:30 pm

The Green Globes Building Rating System

KEVIN STOVER, Commercial Program Consultant, Green Building Initiative

SESSION 2B:

THURSDAY, MARCH 31 • 9:00–11:30 am Future of Building Energy Codes and Demand Response

Chair: LAURIE WIEGAND-JACKSON, C.E.P., President, North America Power Partners, LLC

9:00-9:30 am

Demand Response Programs at PJM Interconnection
SUSAN COVINO, Senior Consultant, Market Strategy, PJM Interconnection, LLC

9:30-10:00 am

Demand Response: How Your Facility Can Contribute to the Smart Grid of the Future

CANDICE DEPP, Regional Sales & Business Development Manager, North America Power Partners, LLC

10:00-10:30 am

Update on Energy Codes

COSIMINI PANETTI, Advocacy Director, Building Codes Assistance Project, Alliance to Save Energy

10:30-11:00 am

NEEP’s Building Energy Codes Project: Implementing Building Design Policies

CAROLYN SARNO, Senior Program Manager, High Performance Buildings, NEEP (Northeast Energy Efficiency Partnerships)

11:00-11:30 am

Integrated Demand Response and Energy Management Strategies to Meet Grid Reliability Needs

RICH QUATTRINI, Vice President of Marketing, EnergyConnect

SESSION 2C:

THURSDAY, MARCH 31 • 2:00–4:00 pm Building Energy Efficiency and Carbon Reduction

Chair: NICK J. STECKY, C.E.M., LEED AP, President, NJS Associates, LLC

2:00-2:30 pm

Synergies Between the International Green Construction Code, LEED and Carbon Reduction

JASON KLIWINSKI, AIA, LEED AP, Director of Sustainable Design, Spiezle Architectural Group, Inc.

2:30-3:00 pm

ASHRAE Standard 189.1 Overview

BILL AMANN, P.E., LEED AP, President, M&E Engineers, Inc.

3:00-3:30 pm

Renewable Energy Opportunities for Buildings

JOSEPH PORROVECCHIO, C.R.M., Consultant, Carbon-Key, LLC

3:30-4:00 pm

Panel Discussion & Q&A

Track 3 – Green Energy and Carbon Reduction

SESSION 3A:

WEDNESDAY, MARCH 30 • 2:00–4:00 pm Renewable Energy Technology Update

Chair: JUDITH L. MONDRE, President, Mondre Energy, Inc.

2:00-2:30 pm

Complying with Energy Efficiency and Conservation Block Grant (EECBG) Standards

JOHN McMULLAN, Assistant Director, Community Development, Upper Darby Township

2:30-3:00 pm

Facility Management’s Role in Global Sustainability

MARC LICARDELLO, Second Vice Chairman, International Facility Management Association (IFMA)

3:00-3:30 pm

Creating a Smart Electricity Grid to Further Your Alternative Energy Goals

WILL AGATE, Vice President, Navy Yard Management & Development, Philadelphia Industrial Development Corporation

3:30-4:00 pm

Cost Effective Carbon Reduction Strategies

STEVEN F. MILLER, P.E., Vice President, Product Development, Mondre Energy, Inc.

SESSION 3B:

THURSDAY, MARCH 31 • 9:00–11:30 am CHP

Chair: JIM D. FREIHAUT, Director, Mid-Atlantic, Clean Energy Application Center, Pennsylvania State University

9:00-9:30 am

Regional Impact of Marcellus Shale on CHP

SETH BLUMSACK, Assistant Professor, Department of Energy & Mineral Engineering, Pennsylvania State University

9:30-10:00 am

Market Potential of CHP in Region

BRUCE HEDMAN, Vice President, ICF International

10:00-10:30 am

Fundamentals of CHP

RICHARD S. SWEETSER, President, Exergy Partners

10:30-11:00 am

What Makes a Good CHP Project

GEAROID FOLEY, President, Integrated CHP Systems Corporation

11:00-11:30 am

Smart Grid at the Navy Yard

WILL AGATE, Vice President, Navy Yard Management & Development, Philadelphia Industrial Development Corporation

SESSION 3C:

THURSDAY, MARCH 31 • 2:00–4:00 pm Alternative Fuel Vehicles/Biodiesel

Chair: KATHERINE GAJEWSKI, Director of Sustainability—City of Philadelphia, Mayor’s Office of Sustainability

2:00-2:30 pm

Bringing Electric Vehicles to Philadelphia

KATHERINE GAJEWSKI, Director of Sustainability—City of Philadelphia, Mayor’s Office of Sustainability

2:30-3:00 pm

CNG Fueling Options

JOSEPH O’NEILL, Transportation Program Specialist, NC Solar Center at NC State University

3:00-3:30 pm

Title to Come

SPEAKER NAME TO COME, Title to Come, Corporate Affiliation to Come

3:30-4:00 pm

Title to Come

SPEAKER NAME TO COME, Title to Come, Corporate Affiliation to Come

Track 4 – Energy Management

SESSION 4A:

WEDNESDAY, MARCH 30 • 2:00–4:00 pm Natural Gas Development and Technologies

Chair: GEORGE LIVANOS, Technical Support Engineer, Business Development, Philadelphia Gas Works

2:00-2:30 pm

Microturbines for Energy Efficiency, Demand Reduction & Energy

JIM CROUSE, Executive Vice President, Sales & Marketing, Capstone Turbine Corporation

2:30-3:00 pm

An Overview of Natural Gas Exploration & Production from the Marcellus Shale in Pennsylvania

BYRON NICKERSON, National Accounts Manager, Vice President, Science Applications International Corporation

3:00-3:30 pm

Why Natural Gas Vehicles

MIKE CECERE, Business Development Manager, Clean Energy

3:30-4:00 pm

GTI Gas End Use Technology Advancements

TED CONWAY, Account Executive, Northeast Gas Association

SESSION 4B:

THURSDAY, MARCH 31 • 9:00–11:00 am Best Practices in Energy Management

Chair: RANDOLPH L. HAINES, C.E.M., C.L.E.P., C.M.V.P., B.E.P., C.S.D.P., Energy Manager, Thomas Jefferson University

9:00-9:30 am

Sustainability Program at Christiana Care Health System

ROBERT MULROONEY, P.E., Vice President, Facilities & Services, Christiana Care Health System

9:30-10:00 am

Future Trends in Energy Management

GARY D. HOGSETT, P.E., LC, C.E.M., LEED AP, Senior Energy Engineer, Mid-America Manufacturing Technology Center

10:00-10:30 am

Operational Training and Improvement at NYU

JOHN A. BARTLIK, P.E., C.E.M., C.E.A., LEED AP, Director of Energy Services, NYU Langone Medical Center

10:30-11:00 am

Sustainability at a Personal Level

SCOTT KELLY, AIA, LEED AP, Co-Founder & Principal, RE:Vision Architecture

SESSION 4C:

THURSDAY, MARCH 31 • 2:00–4:00 pm Gas and Electric Markets

Chair: STEPHEN BOYLE, Manager, Regulatory & Legislative Affairs, PJM Interconnection, LLC

2:00-2:30 pm

Potential Impacts to PJM’s Wholesale Electricity Markets from EPA Regulations

PAUL SOTKIEWICZ, Chief Economist, Markets, PJM Interconnection

2:30-3:00 pm

Options Available to End Users for Purchasing Electricity

ERIC PAULSEN, Customized Energy Solutions, Vice President, Wholesale Markets, PJM Interconnection

3:00-3:30 pm

The Importance of the Energy Industry on America’s Future

JOSEPH FIORDALISO, Commissioner, New Jersey Bureau of Public Utilities

3:30-4:00 pm

Impacts of Marcellus Shale Gas Exploration on Gas Supply

DAVID J. SPIGELMYER, Vice President, Government Relations, Chesapeake Energy Corporation

SEMINARS

Certification seminars highlight show offerings

Fundamentals of Sustainable Development and Carbon Reduction

2-day seminar / Preparatory course for the CSDP examination / March 28-29, 2011

9:00 am – 5:00 pm / Earns 1.6 CEU or 16 PDH / CSDP exam—March 30, 2011

Seminar held at Pennsylvania Convention Center

About the seminar: Successful sustainable development involves a comprehensive understanding of policy and issues as well as a balanced understanding of technical and financial realities. All of these elements have been condensed into an intensive two-day workshop: your opportunity to take part in a focused, fast-paced instructional program designed both to expand your knowledge and to serve as a preparatory vehicle for the exam to achieve AEE's Certified Sustainable Development Professional (CSDP) certification. Emphasis is placed on understanding how the many diverse elements of "green" design, sustainable technologies, and related cost implications can truly result in a well designed and manageable sustainable development plan. This course is intended for professionals who supervise and manage both sustainable programs and energy and design professionals.

For those wishing to qualify for the CSDP certification, the exam will be administered on the morning following the last day of the seminar at the same location. To sit for the exam, it is necessary that you submit a CSDP application, available at www.aeecenter.org/certification/csdp. Note that registering for the two-day seminar does not automatically register you for the CSDP exam. An additional fee of \$300 is required for the certification application and exam.

Seminar Outline: Major areas covered by this seminar:
DAY 1: Policy Aspects of Developing a Sustainability Plan

- Introduction, definitions, and applications of the plan
- Local sustainable policy programs and building sustainability
- Corporate and industrial sustainability programs
- Management approaches to implementing programs
- DAY 2: **Technical Aspects of Developing a Sustainability Plan**
- Introduction to technical and financial aspects
- Renewable energy solutions, zero energy facilities, and DG
- Building energy efficient technologies and sustainability
- Environmental issues and life cycle costing
- Industrial sustainability: case studies and developing your plan

About the Instructors:

STEPHEN A. ROOSA, Ph.D., C.S.D.P., C.E.M., C.I.A.Q.P., C.M.V.P., B.E.P., LEED AP, is an account executive with Energy Systems Group with over 25 years in commercial energy management and performance contracting. He is internationally recognized as an expert in energy conservation, energy management, and urban sustainability. Dr. Roosa's experience includes energy studies for over 3,500 buildings with over \$50 million in energy conservation and management projects.

CARL E. SALAS, P.E., is a majority stockholder and principal in the firm of Salas O'Brien Engineers, Inc. He has been evaluating and re-designing existing facility infrastructures and power systems since 1974, surveying, testing, or designing thousands of power/energy systems, energy efficien-

cy projects, or infrastructure/utilities projects at commercial, industrial, and institutional sites. Along with his "real world" approach to facilities and energy engineering, he has instructed over 5,000 engineers and facility managers in energy and environmental based systems engineering.

Fees for two-day seminar:

Regular fee: \$1250; AEE member fee: \$1150; government and nonprofit fee: \$1150; team discount, deduct \$100 per registrant.



Roosa



Salas



This program is a U.S. Green Building Council (USGBC) Education Provider Approved Certification Course



American Institute of Architects (AIA) Continuing Education Systems (CES) Approved Training Course

Fundamentals of Building Energy Simulation

3-day seminar / Preparatory course for the BESA examination / March 28-30, 2011

9:00 am – 5:00 pm / Earns 2.0 CEU or 20 PDH / Seminar held at Pennsylvania Convention Center

About the seminar: This three-day instructional program has been designed to provide the specific training and background needed by professionals preparing to sit for AEE's Building Energy Simulation Analyst (BESA) certification examination. Attendees will gain a clear, in-depth understanding of the theory and practice of computerized building energy modeling and will also have the opportunity for hands-on building simulation experience during the seminar.

Important: Seminar attendees should bring laptop computers to this seminar and should download prior to the course date the latest free eQUEST simulation software available at doe2.com/equest/ for use during instruction.

An increasing number of federal and state laws, as well as professional energy standards, protocols, and rating systems are requiring the use of computerized building energy simulation programs to verify energy and dollar savings for both high-performance new facility design projects and existing building retrofits. In addition, organizations investing in efficient building projects have learned the value of advance energy modeling as an effective tool assuring the future value of their investments.

The knowledge you will gain by participating in this training program—as well as achievement of the status of Certified Building Energy Simulation Analyst—will position you to be among the select group of professionals available to meet this growing demand for effectively administered computerized building energy simulation, either for your own organization's projects or for those of your clients.

For those wishing to qualify for BESA certification, the exam will be administered at the close of instruction on the last day of the seminar. To sit for the exam, you must submit a BESA application, which can be obtained at www.aeecenter.org/certification/besa. Note: registering for the seminar does not automatically register you for the BESA

exam. An added fee of \$300 is required for the application and exam.

Seminar Outline: Major areas covered by this seminar:

DAY 1: (Day 1 is presented by IBPSA-USA) *The Building Energy Modeling Workshop is not a required component of training for BESA candidates, but is incorporated into this seminar as a valuable hands-on training experience to facilitate effective delivery of energy modeling services.*

Building Energy Modeling Workshop

The main objective of this workshop is to improve modeling quality. Training focuses on topics critical to the effective delivery of energy modeling services.

DAY 2: (Day 2 and 3 are presented by Chris Balbach)

Building Energy Simulation Using Software, Inputs, Results**Interpretation, and Validation****Walk-Through of an Example Energy Simulation Process Using eQUEST Simulation Software**

- Develop title/purpose/scope
- Strategizing to create a baseline model of appropriate granularity to reflect ECM's to investigate:
 - Building the energy model
 - Compare results to existing utility bills
 - Interpreting simulation results
 - Hand calculations, compare results to rules of thumb, etc.
 - Analyzing and proposing improvements and packages of ECMs
 - Performing economic analysis: utility rates, LCC, payback analysis

DAY 3: (Morning)

Advanced Building Energy Simulation

- Course wrap-up and test preparation
- Differences between energy estimating method
- Software tool demonstrations
- Inverse modeling techniques
- Extracting valuable information from utility bills
- STEM (Short-Term-Energy-Monitoring), blink test techniques
- Emerging technologies



Building Energy Simulation Analyst

For more information, visit:

www.aeecenter.org/certification/besa**About the Instructors:**

The Day 1 Workshop will be presented by a team of instructors from IBPSA-USA. IBPSA-USA is the U.S. regional affiliate of the International Building Performance Simulation Association (IBPSA).

CHRIS BALBACH, P.E., C.E.M., C.M.V.P., B.E.M.P., LEED AP, brings to this seminar extensive expertise in building simulation and energy modeling, with a focus on existing buildings. As Vice President of R&D for Performance Systems Development of NY, LLC, he acts as a subject matter expert to guide internal software development teams. As a subcontractor to the National Renewable Energy Lab (NREL), he has delivered weeklong comprehensive Energy Assessment trainings that include energy modeling to governmental clients worldwide. He is a member of IBPSA, AEE, and ASHRAE, and serves as programs committee chair of ASHRAE TC4.7 (Energy Calculations).

Fees for three-day seminar only:

Regular fee: \$1350; AEE member fee: \$1250; government and nonprofit fee: \$1250; team discount, deduct \$100 per registrant.



Balbach



American Institute of Architects (AIA) Continuing Education Systems (CES) Approved Training Course

Fundamentals of Buying and Selling Energy

3-day seminar / Preparatory course for the CEP examination / March 28-30, 2011

9:00 am – 5:00 pm / Earns 2.0 CEU or 20 PDH / Seminar held at Pennsylvania Convention Center

About the seminar: This comprehensive three-day program has been designed to provide the specific training and background information needed by professionals preparing to sit for the Certified Energy Procurement (CEP) Professional certification exam. The program covers the full spectrum of topics essential to the energy procurement process, examining both electricity and natural gas, from both a purchasing/procurement and a selling/marketing perspective. AEE's CEP program is designed to recognize professionals who have achieved a high level of expertise and competence in the areas of purchasing, selling, and marketing electricity and gas in today's deregulated market.

For those wishing to qualify for CEP Certification, the CEP examination will be administered at the close of instruction on day 3 of the seminar in the same location. In order to sit for the examination, it is necessary to submit a CEP application, which can be obtained online at www.aeecenter.org/certification/cep. Note that registering for the seminar does not automatically register you for the CEP exam. An additional fee of \$300 is required for the certification application and exam.

Seminar Outline: Major areas covered by this seminar:

- Legislation, regulation, energy outlook for energy procurement
- The structure of the electric utility industry

- The structure of the natural gas industry
- Purchasing electricity and natural gas under the new rules
- Metering, load profiling, and real-time pricing
- Energy trading and risk management
- Fundamentals of gas and electric marketing
- Energy cost avoidance strategies

About the Instructors:

Each seminar will be conducted by a team of instructors, which will include two of the following experts:

RICHARD J. COSTELLO, P.E., C.E.M., C.D.S.M., C.L.E.P., is president of Acela Energy Group. Prior to assuming his present position, he founded and served as president of Westwood Energy Group. Mr. Costello conducts seminars on energy procurement and management nationwide, and has participated in the development of AEE's Certified Energy Procurement (CEP) Professional program.

JOHN SNELL is a principal of Risk Management Incorporated. He has taken his hedging expertise and concentrated on the development of risk management structures to meet the special needs of investor-owned and public utilities, as well as industrial energy users. He has presented at numerous energy conferences, including industry trade groups such as AGA,



Certified Energy Procurement Professional

For more information, visit:

www.aeecenter.org/certification/cep

APGA, SGA, NYMEX, and NARUC.

DAN CONRATH is a principal of Risk Management Incorporated. He has worked with commodity software and data analysis and developed an expertise in options and how to integrate their use into risk management programs. His background in both software analysis and trading has created a unique quantitative approach to viewing risk management strategies.

Fees for seminar only:

Regular fee: \$1350; AEE member fee: \$1250; government & nonprofit fee: \$1250; team discount, deduct \$100 per registrant.



Costello



Snell



Conrath



This program is a U.S. Green Building Council (USGBC) Education Provider Approved Certification Course

Fundamentals of Energy Auditing

3-day seminar / Preparatory course for the CEA examination / March 28-30, 2011

9:00 am – 5:00 pm / Earns 2.4 CEU or 24 PDH / CEA exam—March 31, 2011

Seminar held at Pennsylvania Convention Center

About the seminar: This three-day program is designed to provide the specific training needed by professionals preparing to sit for AEE's Certified Energy Auditor (CEA) exam. You'll gain the fundamental knowledge needed to evaluate how energy is being used in a facility and to identify where consumption can be reduced, covering useful calculation methods and practical examples. The instructor will emphasize effective auditing basics while putting them in the context of the "big picture" and the bottom line. The program is also designed to provide you with the opportunity to take part in a focused, fast-paced instructional program designed both to expand your knowledge in the field and to serve as a preparatory vehicle for the examination required to achieve AEE's CEA certification.

For those wishing to qualify for CEA certification, the exam will be administered on the morning of the day following the seminar. In order to sit for the exam, you must submit a CEA application, available at www.aeecenter.org/certification/cea. Note that registering for the 3-day seminar does not automatically register you for the CEA exam. An additional fee of \$300 is required for the certification application and exam.

Seminar Outline: Major areas covered by this seminar:**Introduction to Energy Auditing****Building Envelope**

- Heat flow concept/R and U values
- Walls, roofs, windows, low E glass/infiltration
- Energy management opportunities

Lighting Systems

- Measurement of light
- Efficiency/efficacy/light color-CCT/CRI
- Lamp lumen depreciation/lamp types, characteris-

tics/controls

Air Conditioning Systems

- HVAC basics/load estimating/efficiencies
- Components/chillers—electric, gas-driven, absorbers
- Piping arrangements
- Energy saving opportunities

Heating Systems

- Boilers: fire tube, water tube, cast iron
- Distribution systems and thermal units
- Boiler energy management opportunities
- Furnace energy management opportunities

Motors and Drives

- Types of motors/squirrel cage induction motors
- Operating characteristics/efficiencies
- Variable frequency drives
- Energy management opportunities

Heat Pumps

- Operation/efficiencies/classifications
- Energy management opportunities

Ventilation Systems

- Types/characteristics
- Heat recovery methods
- Energy management opportunities

Domestic Hot Water Systems

- Types/efficiencies
- Circulating pumps/heat pump water heaters
- Energy management opportunities

Water Conservation and Audits

- Rate structures/water conservation methods
- Irrigation and landscaping/leak detection
- Water audit

Utility Analysis

- Demand and energy
- Rates classifications/identifying

billing errors

About the Instructor:

TERRY NIEHUS, P.E., C.E.M., is the founder of Lakeshore Consulting, a firm specializing in technical training and energy auditing. Mr. Niehus has extensive experience as a trainer, having taught courses on a broad spectrum of topics in addition to energy auditing, including commercial building energy systems, motors and drives, HVAC, compressed air, cogeneration, and thermal energy storage. He has also authored training and technical resources manuals in areas related to his training programs. As a consultant, he has performed over 1,000 energy analyses for governmental, commercial, and industrial facilities.

Fees for seminar only:

Regular fee: \$1450; AEE member fee: \$1350; government and nonprofit fee: \$1350; team discount, deduct \$100 per registrant.



Niehus



This program is a U.S. Green Building Council (USGBC) Education Provider Approved Certification Course



American Institute of Architects (AIA) Continuing Education Systems (CES) Approved Training Course



CERTIFIED ENERGY AUDITOR

Certified Energy Auditor

For more information, visit:

www.aeecenter.org/certification/cea

SEMINARS

Seminars offer enhanced professional standing

Fundamentals of Residential Energy Auditing

3-day seminar / Preparatory course for the REA examination / March 28-30, 2011

9:00 am – 5:00 pm / Earns 2.4 CEU or 24 PDH / REA exam—March 31, 2011

Seminar held at Pennsylvania Convention Center

About the seminar: This program is designed to provide the specific training needed by professionals preparing to sit for AEE's Residential Energy Auditor (REA) Certification exam. The program covers all major aspects of home energy use, residential energy systems and technologies, energy conservation measures (ECMs), energy auditing methodology and calculations, and diagnostic and software tools. The course material assumes no prior knowledge of the topic and incorporates all the basic information residential energy auditors need.

For those wishing to qualify for the REA Certification examination, it will be administered on the morning of the day following the seminar. In order to sit for the examination, it is necessary to submit a REA application, which can be obtained at www.aeecenter.org/certification/rea. Note that registering for the 3-day seminar does not automatically register you for the REA exam. An additional fee of \$300 is required for the certification application and exam.

Seminar Outline: Major areas covered by this seminar:

Introduction/Audit Objectives
Energy Basics
Utility Billing

Principles of Heat Transfer
Residential Energy Overview
Building Envelope
Space Heating
Air Conditioning
Water Heating
Lighting and Appliances
Financial Calculations/Tax Credits
Residential Energy Audit Overview
Conducting a Residential Energy Audit

About the Instructor:

FRANK WALSH has 25 years of experience in residential energy efficiency and conservation programs. Prior to founding F.J. Walsh & Associates in 1996, he spent 12 years with A&C Enercom, where he specialized in training and residential program design. He has developed and conducted numerous training seminars in the areas of his expertise, including programs on residential energy auditing. Mr. Walsh has also developed residential energy efficiency programs for clients including Edison Electric Institute, Tennessee Valley Authority, National Rural Electric Cooperative Association, Consumers Power, and Entergy Corporation.



Certified Residential Energy Auditor
 For more information, visit:
www.aeecenter.org/certification/rea

Fees for seminar only:

Regular fee: \$1450; AEE member fee: \$1350; government and nonprofit fee: \$1350; team discount, deduct \$100 per registrant.



Walsh



This program is a U.S. Green Building Council (USGBC) Education Provider Approved Certification Course



American Institute of Architects (AIA) Continuing Education Systems (CES) Approved Training Course



This program is BPI recognized for CEU credits

Fundamentals of Using RETScreen® Tools for Energy Project Analysis

3-day seminar / Preparatory course for the CRU examination / March 28-30, 2011

9:00 am – 5:00 pm / Earns 2.0 CEU or 20 PDH / Seminar held at Pennsylvania Convention Center

About the seminar: Recognized worldwide as an efficient and user-friendly decision support tool, the RETScreen® Clean Energy Project Analysis Software allows professionals to quickly identify and assess the potential of various energy projects. This seminar aims at imparting a comprehensive understanding of the RETScreen® tool, as well as serving as a preparatory vehicle for the Certified in the Use of RETScreen (CRU) professional certification exam. The training includes both energy efficiency and renewable energy components, covering building envelope, HVAC, lighting, electrical equipment, wind energy systems, and photovoltaics, along with demonstrations and case studies. Participants will gain a sound understanding of the analysis opportunities offered by the software, such as cost, financial, greenhouse gas emission, risk, and sensitivity analyses. The CRU exam will be administered at the close of instruction on Day 3. To qualify for the exam, it is necessary to submit a CRU application, which can be obtained at www.aeecenter.org/certification/cru. Note: registering for the 3-day seminar does not automatically register you for the CRU exam. An additional fee of \$400 is required for the certification application and exam.

Seminar Outline: Major areas covered by this seminar:

Day One:

- Introduction to Certification and Overview of Course
- Presentation: Energy Efficiency Concepts

- Presentation: Prefeasibility Concepts
- Demonstration of RETScreen® for Energy Efficiency Analysis
- Hands-On Case Study: Lighting
- Presentation: Lighting Technologies, Heating & Cooling Systems, Building Envelope & Ventilation
- Adding Building Envelope & Heating & Cooling System to the Existing Lighting Case Study
- Presentation/Demonstration: Understanding the Output of the RETScreen® Energy Efficiency Model
- Presentation/Demonstration: Cost Analysis with RETScreen®
- Adding Financial Analysis to the Existing Case Study
- Demonstration of Risk & Sensitivity Analysis Page
- Adding GHG Analysis to Existing Case Study

Day Two:

- Motors, Pumps, & Fans
- Compressed Air
- Steam Systems
- Refrigeration
- Presentation: Limits of RETScreen®
- Complete Hands-On Case Study No. 1: Commercial Facility
- Using RETScreen® for Renewable Energy Professionals
- Combined Heat & Power Systems
- Presentation: Solar Energy
- Upcoming Changes in RETScreen®



Certified in the Use of RETScreen®
 For more information, visit:
www.aeecenter.org/certification/cru

Day Three:

- Complete Hands-On Case Study: Energy Efficiency or Solar (Student's Choice)

About the Instructor:

MICHAEL ROSS is president of Renewable Energy Research, a company providing services in energy efficiency and renewable energy systems that specialize in simulation, modeling, design, and technical/economic analysis. For over 10 years, he has assisted the RETScreen® International group of Natural Resources Canada in the development of course material, case studies, and manuals and has given over 40 RETScreen® seminars across Canada.

Fees for this three-day seminar:

Regular fee: \$1350; AEE member fee: \$1250; government & nonprofit fee: \$1250; team discount, deduct \$100 per registrant.



Ross

Fundamentals of High Performance Building Design & Engineering

3-day seminar / Preparatory course for the HPB examination / March 29-31, 2011

9:00 am – 5:00 pm / Earns 2.4 CEU or 24 PDH / HPB exam—April 1, 2011

Seminar held at Pennsylvania Convention Center

About the seminar: This course is designed to provide energy professionals with the details of requirements for designing and engineering buildings to meet high performance standards, and to serve as a preparatory vehicle for AEE's High Performance Building (HPB) certification exam.

Participants will learn how to apply building rating systems including LEED, Green Globe Initiative, and ENERGY STAR. The course covers total building system requirements including HVAC, lighting, insulation, high performance mechanical energy, water management, and indoor air quality. The basics of building commissioning will also be presented, including integration with LEED® rating system.

For those wishing to qualify for HPB certification, the examination will be administered on the morning of the day following the seminar at the same location. In order to sit for the examination it is necessary to submit an HPB application, which can be obtained at www.aeecenter.org/certification/hpb. Note that registering for the 3-day seminar does not automatically register you for the HPB exam. An additional fee of \$300 is required for the certification application and exam.

Seminar Outline: Major areas covered by this seminar:

Day One:**High Performance Building Rating Systems**

Instructor: Nick Stecky

- LEED Family of Rating Systems of New Construction and Existing Buildings

- ENERGY STAR Rating System
 - Green Building Initiative Green Globe
 - Commercial Building Energy Consumption Survey
- Day Two:**
ANSI/ASHRAE/USGBC/IES Standard 189.1-2009 for High Performance Green Buildings

Instructor: Tom Lawrence

- What is the New Standard About and Why is This Being Created?
- Organization, Purpose, and Status of Standard 189
- Section-by-Section Highlights of the Standard

Day Three:**Fundamentals of Building Commissioning**

Instructor: Paul Banks

- Introduction to Commissioning
- Commissioning Definitions
- Commissioning Definitions: New Buildings
- Commissioning Definitions: Existing Buildings
- Existing Buildings Opportunities and Deliverables
- Commissioning for LEED Projects

About the Instructors:

THOMAS M. LAWRENCE, Ph.D., P.E., LEED AP, is a public service associate with the University of Georgia, and has over 30 years' professional experience in engineering and environmentally related fields. He is chair of ASHRAE Technical Committee 2.8, Building Environmental Impact and Sustainability, and a



High Performance Building Professional
 For more information, visit:
www.aeecenter.org/certification/hpb

member of the committee which wrote ASHRAE Standard 189.1 on high performance green buildings.

NICK STECKY, C.E.M., LEED AP, leads his own facilities consulting firm of NJS Associates, specializing in energy, sustainability, and green high-performance facilities. He has over 30 years of experience in facilities construction, operation, and management.

PAUL BANKS, P.E., C.E.M., C.B.C.P., a LEED accredited engineer, is a founding partner of B2Q, an engineering/project management consulting firm specializing in clients in achieving the design, construction, and commissioning of safe, efficient productive buildings.

Fees for seminar only:

Regular fee: \$1450; AEE member fee: \$1350; government & nonprofit fee: \$1350; team discount, deduct \$100 per registrant.



Lawrence



Stecky



Banks

Fundamentals of Measurement & Verification for Energy Managers and Emission Traders: Applying the IPMVP

3-day seminar / Preparatory course for the CMVP examination / March 29-31, 2011

9:00 am – 5:00 pm / Earns 2.0 CEU or 20 PDH

Seminar held at Pennsylvania Convention Center

About the seminar: AEE, in cooperation with the Efficiency Evaluation Organization (EVO), established the Certified Measurement & Verification Professional program with the dual purpose of recognizing the most qualified professionals in this growing area of the energy industry, and raising the overall professional standards within the M&V field. The IPMVP, first established by the U.S. DOE, has become the internationally recognized protocol for performance M&V. This course is designed as a useful preparatory vehicle for AEE's Certified Measurement & Verification Professional (CMVP) program. Proven energy savings are now playing a significant role in financing energy management programs, whether through energy performance contracts or through emission trades under schemes such as the clean development mechanism of the UNFCCC.

While interest in savings data is growing, the state of the art in determining savings has also been rapidly evolving. This seminar will examine current methods of determining and documenting savings, specifically reviewing the newest IPMVP. Attendees will learn the process of designing a proper M&V program for their projects, including cost/accuracy tradeoffs, baseline adjustments, the role of estimates, maintaining space conditions, the role of verifiers, and the data needed for emission trading. Examples of specific techniques will be presented and class time will include problem solving and debate. Bring a calculator. Advance reading

of IPMVP Volume I would be useful, though not required. (To obtain IPMVP Volume I or for more information about EVO, visit www.evo-world.org).

For those wishing to qualify for CMVP Certification, the CMVP exam will be administered at the close of instruction on the last day of the seminar in the same location. In order to sit for the examination, it is necessary to submit a CMVP application, which can be obtained at www.aeecenter.org/certification/cmvp. Note that registering for the 3-day seminar does not automatically register you for the CMVP exam. An additional fee of \$400 is required for the certification application.

Seminar Outline: Major areas covered by this seminar:

- Reasons for M&V: types of uses and role in savings
- Current M&V protocols
- IPMVP 2007 and Its Evolution
- Developing an M&V plan
- Current issues in M&V: missing data, monitoring IAQ
- Emission trading
- Baseline adjustments: why they are necessary
- Key elements of success: examples of IPMVP 2007 options
- Selecting options: which one is best suited for my project
- Compliance/adherence with protocols and contracts
- M&V for U.S. federal projects

About the Instructors:

Certified Measurement & Verification Professional
 For more information, visit:
www.aeecenter.org/certification/cmvp

JOHN D. COWAN, P.Eng., M.B.A., C.M.V.P., president of Environmental Interface Limited, is chair of the EVO Board responsible for the IPMVP. He frequently acts as independent claims verifier of savings claims. During 30 years in the industry, his roles have included consulting engineer, ESCO owner/manager, and owner's rep in energy performance contracting matters.

STEVE SAIN, P.E., C.E.M., C.M.V.P., C.E.P., brings more than 20 years experience in the energy conservation industry to this program, including involvement in numerous energy conservation and alternative financing projects, involving U.S. federal agencies.

Fees for seminar only:

Regular fee: \$1350; AEE member fee: \$1250; government and nonprofit fee: \$1250; team discount, deduct \$100 per registrant.



Cowan



Sain



American Institute of Architects (AIA) Continuing Education Systems (CES) Approved Training Course

SEMINARS

Additional exceptional seminar offerings

Fundamentals of Renewable Energy: Technologies, Applications, Strategies

3-day seminar / Preparatory course for the REP examination / March 29-31, 2011

9:00 am - 5:00 pm / Earns 2.4 CEU or 24 PDH / REP exam—April 1, 2011

Seminar held at Pennsylvania Convention Center

About the seminar: This program is designed to provide the specific training needed by professionals preparing to sit for AEE's Renewable Energy Professional (REP) certification exam. The program provides an in-depth overview of alternative energy sources, application technologies, renewable energy project goal-setting, and implementation strategies. Topics include wind power systems, solar thermal heating and photovoltaic generation, geothermal heating and electrical production, biofuels, waste-to-energy systems, energy storage, fuel cells, and hydroelectric power. Financing options and incentives are also considered.

For those wishing to qualify for the REP Certification examination it will be administered on the morning of the day following the seminar. In order to sit for the examination, it is necessary to submit a REP application, which can be obtained at www.aeecenter.org/certification/rep. Note that registering for the 3-day seminar does not automatically register you for the REP exam. An additional fee of \$300 is required for the certification application and exam.

Seminar Outline: Major areas covered by this seminar:

Introduction to Alternative Energy
Environmental Impacts—A Driver for Using Alternative Energy
Alternative Energy and Carbon Reduction
Solar Energy

Wind Energy
Hydropower
Geothermal Energy
Waste-to-Energy Systems
Fuel Cells—An Example of Hydrogen Applications
Hybrid Alternative Energy Systems
Creative Energy Storage Applications
Alternative Energy Strategies for Buildings
Transportation Systems
Governmental Alternative Energy Programs
Financial Approaches and Incentives for Alternative Energy

About the Instructors:
STEPHEN A. ROOSA, Ph.D., an internationally recognized expert in energy management and urban sustainability, brings to this program over 25 years' experience in commercial energy management and performance contracting. Dr. Roosa is a C.S.D.P., C.E.M., C.I.A.Q.P., C.M.V.P., B.E.P., Certified Energy Monitoring and Control System Designer, Certified Demand Side Management Specialist, and a LEED Accredited Professional. He holds a Ph.D. in Planning and Urban Development.

FRED HAUBER is an electrical engineer, lighting system designer, and solar integrator with over 35 years field experience. He has served as a facilities manager for several large corporations and is intimately familiar with sustainable operation and maintenance of

REP Certified Renewable Energy Professional
 For more information, visit:
www.aeecenter.org/certification/rep

large facilities. He has lectured and written widely in the areas of sustainability techniques for commercial facilities and solar electric systems design and installation. He is a Certified Lighting Management Consultant, C.L.E.P., Certified Solar System Designer, and Certified Solar Installer.

Fees for seminar only:
 Regular fee: \$1450; AEE member fee: \$1350; government and nonprofit fee: \$1350; team discount, deduct \$100 per registrant.



Roosa



Hauber



This program is a U.S. Green Building Council (USGBC) Education Provider Approved Certification Course



American Institute of Architects (AIA) Continuing Education Systems (CES) Approved Training Course



Presented in cooperation with ACORE

AEE is Now an Approved Training Provider in the American Institute of Architects Continuing Education Systems (AIA/CES) Registered Provider Program



The AIA requires that registered architect members earn 18 Learning Units (LUs) hours of continuing education annually (8 hours of which must be related to Health, Safety, and Welfare topics and 4 of those 8 in Sustainable Design) to remain in good standing.

Architectural boards in 40 states, 10 Canadian provinces, and 19 countries have implemented mandatory continuing education (MCE) for re-licensure. Statistically, architects hold multiple state licenses. Most states with MCE requirements recognize the AIA/CES as the primary source of professional development for their licensed architects. This allows AIA members to present their AIA/CES transcripts (and non-members AIA/CES Certificates of Completion) to licensing boards to satisfy state requirements.

In becoming an AIA/CES Registered Provider, AEE is committed to a system-wide, top-down commitment to quality professional continuing education and sound administration. The AIA/CES offers providers of professional continuing education myriad opportunities to award CES Learning Units (LUs) and provide valuable information and guidance, while bypassing the time consuming process of registering their courses with individual states.

AEE is an Approved Training Provider Under U.S. Green Building Council's Education Provider Program for GBCI's Mandatory Credential Maintenance Program (CMP)



The Association of Energy Engineers is an approved training provider under the U.S. Green Building Council (USGBC) Education Provider Program (EPP). The purpose of EPP is to facilitate access to high quality professional development courses which further enrich the knowledge and understanding of green building theory, techniques, and trends for building professionals. Each approved course is reviewed by thirdparty-trained reviewers, and meets the criteria and guidelines established by the USGBC Professional Development Committee. Many courses offered by AEE have been officially approved for credit under USGBC's Education Provider Program for GBCI's Credential Maintenance Program (CMP) for LEED® professional credentials.

ACORE, AEE Sign Agreement on Renewable Energy Professional Seminar and REA Certification



The American Council on Renewable Energy (ACORE) and the Association of Energy Engineers (AEE) recently signed a memorandum of understanding to recognize the Fundamentals of Renewable Energy: Technologies, Applications, & Strategies training seminar as well as the Renewable Energy Professional (REP) certification exam. ACORE will appoint an official to the Renewable Energy Professional Certification Board, and provide feedback as to course content as the renewable energy marketplace changes. ACORE's involvement brings added critical insight into renewable energy policy developments, market trends, and technology innovations.

AEE's Corporate and Government Energy Leader Program

Send a delegation to the Conference and Gain Leadership Recognition

- Complimentary conference passes based on level of participation, with a minimum of three (3) registrants. This includes access to the 4-track conference program, expo, free workshops, networking reception, a copy of the Proceedings CD, and luncheons on Wednesday, March 30, and Thursday, March 31, in the expo hall.
- Your logo will appear in preshow attendee promotions.
- Your logo and a link to your organization's website will appear on the official show website: www.globalconevent.com.
- Onsite recognition with signage throughout the event, on the Proceedings, and the Conference Program distributed to all GLOBALCON conference attendees.
- Sponsor ribbons for your attendee badges signifying your participation as a Leader Sponsor.
- An additional 50 reduced-rate conference passes at \$495 each.

The Leader premier levels of recognition will determine the prominence of your visibility based on the STAR level your organization chooses. Those levels of recognition are listed below.

GREEN STAR	\$10,000:	Twenty-five (25) complimentary, full conference registrations* — a total value of \$22,375.
BLUE STAR	\$ 7,500:	Fifteen (15) complimentary, full conference registrations* — a total value of \$13,425.
RED STAR	\$ 5,000:	Seven (7) complimentary, full conference registrations* — a total value of \$6,265.
WHITE STAR	\$ 2,500:	Three (3) complimentary, full conference registrations* — a total value of \$2,685.

*Registration includes: two expo luncheons, access to 4-track conference sessions, entry into exhibits, and a copy of the Conference Proceedings CD for each registered delegate.

For additional information or to customize your package by adding more attendees or AEE seminars, contact Bill Kent at (770) 447-5083, Ext. 217, or email Bill@aeecenter.org

NOTE: ALL GLOBALCON EVENTS WILL BE HELD AT THE PENNSYLVANIA CONVENTION CENTER.

EVENTS

Special events highlight GLOBALCON week

FREE New Technologies Breakfast presented by Leviton Manufacturing Co.

A forum to preview new and innovative products and services

Wednesday, March 30/8:00–9:00 am



Leviton Manufacturing Co. is pleased to sponsor the New Technologies Breakfast, a concise and informative forum for GLOBALCON attendees to preview the new and innovative products and services on display at the expo.

GLOBALCON exhibitors will present brief 5-to-8 minute presentations on their newest technologies, enabling attendees to quickly map out their time at the show and get a rapid survey of what is new. This is a must-attend event for anyone responsible for providing trip reports or technology summaries for their employer.

Leviton offers the broadest array of lighting energy management solutions and technological advancements, which are the cornerstones to its 100-year history of success in the industry. Be sure to put this event on your schedule and sign up on the registration form. For more information on sponsoring or speaking at this breakfast event, contact Jacqueline Fraga at jacqueline@aeecenter.org or (770) 279-4390.

FREE Breakfast Energy Policy: Opportunities, Challenges

A program for women professionals and women-owned companies

Thursday, March 31/7:30–9:00 am



Join us for a FREE breakfast, which includes presentations of case studies of successful women-owned businesses and discussion of unique barriers and opportunities encountered.

The meeting is being presented by the Council on Women in Energy and Environmental Leadership (CWEEL). CWEEL was founded by Laurie Wiegand-Jackson, President of North America Power Partners, and is co-directed by MaryAnne Lauderdale, Senior Consultant Lime Energy. This group's goals are to provide representation of women in industry-related policy issues, such as the National Energy Policy Act; to address the high cost of energy, our present and future sources of energy, and the impact of energy on the environment; to secure a future in energy-related technical fields for women by supporting the training, education, and mentoring of young girls and women; and to contribute to the advancement of women in leadership positions throughout the industry.

For information about CWEEL, please contact Ruth Whitlock at whit@aeecenter.org.

EVENTS

Special events highlight GLOBALCON week

GLOBALCON Opening Night Networking Reception Wednesday, March 30/4:00 pm

GLOBALCON attendees, seminar attendees, and exhibitors are all invited to join AEE for the GLOBALCON Opening Night Reception to network with your industry peers. There are still sponsorship opportunities for exhibiting companies to host this reception. Please contact Lauren Lake at lauren@aeeecenter.org or call (678) 687-4997 for details and special offers.

Free Tour: Pennsylvania Convention Center Wednesday, March 30/1:00-2:00 pm

The Philadelphia Gas Works tour will take place onsite at the Pennsylvania Convention Center. During the tour, you will see how the Convention Center utilizes natural gas to lower overall facility costs by using it for their heating, air conditioning, and hot water.

AEE Chapter Luncheon Thursday, March 31/12:00 noon Luncheon topic presented by Greater Philadelphia Chapter of AEE

Please join the Greater Philadelphia Chapter of AEE, the GLOBALCON Presenting chapter, for a luncheon, chapter meeting, and presentation. Registration is included for full paid conference attendees. Simply bring your provided lunch tickets to the meeting room. Luncheon tickets for non-conference attendees are \$20 and should be pre-purchased to reserve your seat. Use the form on the back to pre-register or visit www.GLOBALCONevent.com and you can add this special event to your GLOBALCON registration. Also visit the website above for more details on the presentation when it becomes available. Just click on "Special Events" for detailed information.

Council on Women in Energy and Environmental Leadership (CWEEL) Reception Thursday, March 31/4:00-6:00 pm/Reception to be held at Pennsylvania Convention Center



CWEEL invites you to attend a cocktail reception sponsored by Luthin Associates to relax and network with your colleagues. Attendance is free to CWEEL members. Nonmembers may join CWEEL at the door for \$30 (must be AEE members) or attend the reception as a guest for \$40.

EXPO

Expo offers cost-saving technologies and strategies

Make plans to display your products and services in the GLOBALCON 2011 exposition at the Pennsylvania Convention Center in Philadelphia

We invite your company to exhibit in the upcoming GLOBALCON "Energy, Power, and Facilities Management Strategies and Technologies" event to be held in dynamic Philadelphia, PA. The show is designed to help commercial, industrial, institutional, and governmental end users discover technologies, new product ideas, applications, and services for their new or retrofit project implementation, operational and energy efficiency game plans, facility management, power strategies, as well as offer exhibitor/ attendee face-to-face networking opportunities. You receive many benefits as an exhibitor at GLOBALCON, including:

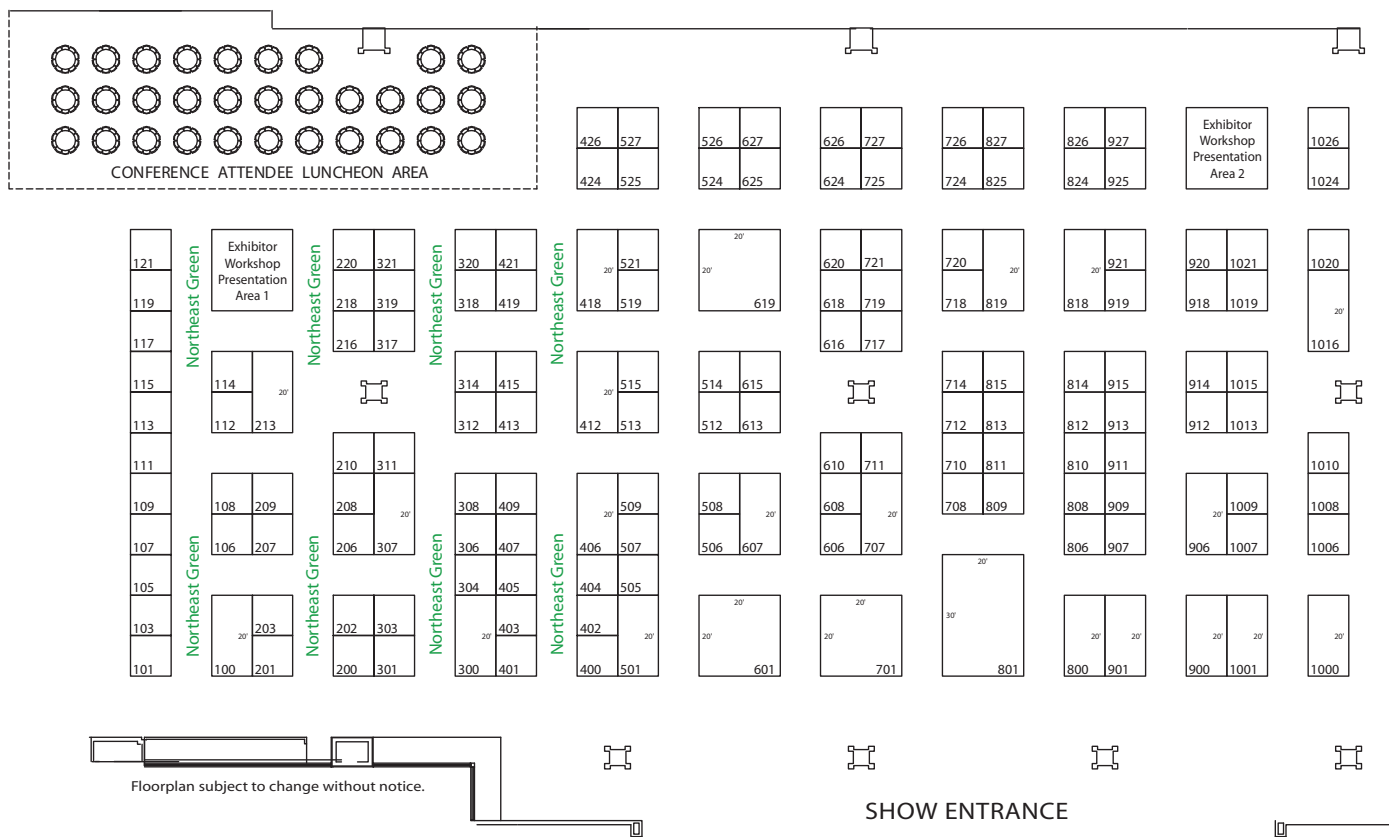
- Discussing application needs with attendees
- Showcasing your technologies and your solutions
- Networking with your industry peers
- Developing new sales leads and reinforcing existing relationships
- Meeting with decision-makers face to face for the best results
- Set yourself apart from your competition



For more information, or to check on booth availability and pricing, contact:

Ashley Clark, Exhibit Manager / Phone: (770) 279-4392 / Email: ashley@aeeecenter.org / Web: www.globalconevent.com

GLOBALCON 2011 • Philadelphia, PA • Pennsylvania Convention Center • Hall E



GLOBALCON 2011 EXPO HOURS

Wednesday
March 30, 2011
10:00 am-4:00 pm
Thursday
March 31, 2011
10:00 am-2:00 pm

Preregister and Earn Free Expo Admission

Save the \$40 at-door admission fee by completing and returning the Registration Form on the back page of this newspaper or register online at www.globalconevent.com

Exhibit Opportunity

Showcase your innovative product, technology, or service by exhibiting at the GLOBALCON expo. Contact Ashley Clark, GLOBALCON Exhibit Manager, at (770) 279-4392 or ashley@aeeecenter.org or visit www.globalconevent.com

SHOWCASE

Presenting the latest products and services

Invitation: Visit the expo to see firsthand the latest technologies, products, and services available now that can improve the productivity of your operations while slashing costs. Following is a partial listing of exhibitors. *Note: List is subject to change; AEE is not responsible for omissions, errors, or claims regarding products or services. Listing is complete as of January 20, 2011. For an updated list, please visit: www.GLOBALCONevent.com*



AIR PEAR by AIRIUS, LLC

Commercial Buildings consume 40-50% of all U.S.-produced energy—a simple, low-tech process in reducing building energy consumption is De-Stratification, 20-40% reductions in HVAC operating loads can be achieved, reducing consumption and maintenance while improving comfort in every season. The Air Pear by Airius is the premier tool for De-Stratification and should be your first pick for an energy conservation plan.



ALLIANCE TO SAVE ENERGY

Founded in 1977, the Alliance to Save Energy is a nonprofit coalition of business, government, environmental and consumer leaders. The Alliance to Save Energy supports energy efficiency as a cost-effective energy resource under existing market conditions and advocates energy-efficiency policies that minimize costs to society and individual consumers, and that lessen greenhouse gas emissions and their impact on the global climate. To carry out its mission, the Alliance to Save Energy undertakes research, educational programs, and policy advocacy, designs and implements energy-efficiency projects, promotes technology development and deployment, and builds public-private partnerships, in the U.S. and other countries.



AMBIRAD
ENERGY EFFICIENT HEATING SYSTEMS
AMBIRAD
INFRARED HEATING SYSTEMS: AmbiRad is the leading manufacturer of gas-fired, low-intensity infrared heating systems. AmbiRad systems are utilized in applications such as manufacturing facilities, warehouses, vehicle service centers, dock areas, and airplane hangars, with savings of up to 60% being achieved against boiler and convection systems. Our customers have come to rely on the economy, reliability, and durability of our products and on our 50 years of industry experience. AmbiRad products are represented by a nationwide network of distributors and are backed by factory engineering and technical staff. This comprehensive customer service package includes building heat load calculation, computer-aided design, fuel cost calculation, onsite support, training, and system commissioning. AmbiRad develops and manufactures high-quality, environmentally friendly, energy- and cost-efficient heating systems fueled by natural gas, LPG, or oil. All products certified to BS EN ISO 9001:2000 accreditation.



AMEC
This company (LSE: AMEC) is a focused supplier of high-value consultancy, engineering and project management services to the world's natural resources, nuclear, clean energy, water, and environmental sectors. With annual revenues of over £2.5 billion, AMEC designs, delivers, and maintains strategic and complex assets for its customers. The company employs some 23,000 people in around 40 countries worldwide.



AMEREX ENERGY
Fortune 500 companies turn to Amerex Energy to capture lower electricity prices. Leveraging over 30 years' experience in electricity markets, we are experts in developing and implementing long-term cost savings for electricity procurement. Amerex advises commercial, industrial, governmental, and institutional entities in all deregulated areas of North America. We lead the electric industry in innovation that enables our clients to capture lower prices.



AMERICAN CAPITAL ENERGY
American Capital Energy, a Massachusetts-based solar electric design/ engineering/integration company has 14 offices nationally and provides turnkey solar solutions for corporations, government, and utility scale solar projects across the U.S. and beyond. Project size ranges from 100K to 30+MW—roof/ground mounted, carport, tracking—sites and facilities of 20,000 + sq. ft. Completed installations include a 2.3 MW solar roof system atop the Atlantic City Convention Center one-half mile long by 500 feet wide, with over 13,400 solar panels; the largest rooftop solar array in North America. Currently in the early stages of installing a 44-acre, 20 MW ground-mounted solar array (utility scale) in Searchlight, NV. With numerous successful projects from New Jersey to California we are a highly experienced/qualified solar integrator that can cut your electric energy costs/carbon footprint—"green" the planet.



ARCHSCAN, LLC
archSCAN, LLC is a unique company specializing in document/drawings, organizational management and scanning services. We convert all sizes of paper into electronic digital formats to assist customers move into the technology world, plus help prevent the loss and deterioration of irreplaceable documentation. Need help organizing chaotic large-format drawing plan rooms? We can help with onsite services! Can't locate specific paper drawings when a catastrophe occurs? archSCAN can help! We save our customers time, money, and space. We offer a user-friendly file folder structured Adobe Acrobat database with the digitized end-product being delivered on external hard drives, DVDs, and/or CDs.



ASSOCIATION OF ENERGY ENGINEERS (AEE)
The Association of Energy Engineers is a nonprofit professional society whose mission is to promote the scientific and educational interests of those engaged in the energy industry and to foster action for sustainable development. AEE is the gateway for information in the dynamic field of energy efficiency, renewable energy, and carbon reduction strategies. Now in its 34th year, AEE and offers a full array of educational and certification programs including seminars, conferences, books, journals, and networking trade shows. The overall strength of AEE is highlighted by a strong membership base of over 13,000 professionals, including thousands of individuals who have been certified under its programs, including Certified Energy Managers (CEM), Certified Energy Auditor (CEA), Certified Sustainable Development Professionals (CSDP), Certified Building Commissioning Professionals (CBCP), Certified Measurement and Verification Professionals (CMVP), and Certified Lighting Efficiency Professionals (CLEP). AEE's network of 71 chapters in the U.S. and 81 internationally offer networking opportunities around the world. Further, AEE's roster of corporate members is a veritable "Who's Who" of the commercial, industrial, institutional, governmental, energy services, and utility sectors.



ASSOCIATION FOR FACILITIES ENGINEERING (AFE)
AFE is the premier organization for facilities engineers and operations professionals. The Association unites a large community of facilities professionals who promote and advocate for ways to efficiently operate and maintain complex building and facility systems, including high performance and sustainable technology. AFE empowers its members through networking, knowledge sharing, training and certification, and provides resources needed for career advancement. AFE further seeks to promote the facilities engineering profession within academia and the broader engineering community.



ATAS INTERNATIONAL
ATAS International Inc. is a leading manufacturer of metal roofing, walls and accessories. Included in the ATAS line of products is the InSpire Wall Solar System, which utilizes precision perforated metal panels that are

mounted several inches from the building's outer wall. The solar preheated air at the surface is "transpired" (drawn through the perforations) into the wall cavity via ventilation fans, which draw the warmer air up the wall and into the building's interior through conventional ductwork into the building's air handler or directly into the building through various types of ductwork. Transpired air collection is a proven technology that reduces dependence on fossil fuels, saves substantial energy costs and offers an ROI generally within three years.



ATLAS COPCO COMPRESSORS

Atlas Copco's Compressors develops manufactures, markets, and services oil-free and oil-injected stationary air compressors, air treatment equipment and air management systems. Atlas Copco has a focus on exceeding customer needs with a culture built on ongoing interaction, long-term relationships, and a commitment to understanding each customer's process and objectives. As a result, every compressed air solution we create helps a customer operate with greater efficiency, economy, and productivity.



AUTANI CORPORATION

Autani is a Clean Tech company that provides advanced automation products and services to significantly reduce energy consumption in buildings and homes. Autani's energy efficiency solutions enable owners and tenants to integrate measurement and control of all their energy consumption (HVAC, lighting, plug loads, computers, appliances, etc.) for optimized savings. Unparalleled energy conservation and cost reduction is achieved using advanced wireless sensors and controls coupled with "smart" software, making real-time adjustments based on time of day, presence of people, natural light levels, inside/outside temperature and current cost of energy. While other providers focus on controlling one aspect of energy consumption, Autani unites these systems through a single control source that maximizes the potential savings. Lower system and installation costs and outstanding energy savings combine to deliver an extremely rapid system payback, averaging 1.5-2.5 years. Additionally, Autani's products can integrate with intelligent smart grid demand-response technologies to deliver additional savings to both the user and energy provider. Located in Columbia, MD, Autani was founded in 2006 based on a desire to reduce global energy waste by developing energy efficiency systems for both commercial and residential markets that deliver breakthrough affordability and savings.



B&R CONSTRUCTION SERVICES

B&R Construction Services is an engineering and construction management firm, specializing in the design and construction of mechanical, electrical, and plumbing (MEP) systems, energy efficiency, renewable power generation, commissioning, LEED and ENERGY STAR consulting for commercial, institutional, industrial, and governmental projects. B&R has been providing engineering and construction management services for 18 years. Founded in 1992 by William R. Britt and Anthony Roussos, B&R has completed hundreds of successful projects all over the U.S. We are currently registered and can provide Professional Engineering design and construction management services in 34 states. We also have an active record on file with The National Council of Examiners for Engineering and Surveying, in the event that our professional services are requested in a state with which we are not currently registered. The company is headquartered in Glen Burnie, MD.



BADGER METER
Badger Meter is a leading flow measurement and control products manufacturer, serving water utilities, municipalities, and industrial customers worldwide. Our flow measurement expertise provides the foundation for developing technologies and products that continually exceed our customers' evolving needs. Badger Meter solutions encompass potable water, oil and lubricants, and industrial processes.



BENJAMIN ELECTRIC COMPANY
Benjamin is a manufacturer of quality power distribution systems that feature advanced technological innovations including the latest addition to our product line—The Benjamin ArcLight Panelboard, a controllable circuit breaker panel that can communicate with any lighting control or building automation system and software. As the manufacturer, we can offer the flexibility of numerous configurations for new and retrofit applications. UL Listed.



BIRDSALL SERVICES GROUP (BSG)
Birdsall Services Group is a professional service firm with recognized leaders in engineering and environmental consulting services. With offices throughout NJ and in NY, we can provide our clients with a broad range of engineering and consulting services that include civil, environmental, geotechnical, marine, MEP, planning, structural, sustainable energy, transportation, waste management, and water resources.



BURNS MECHANICAL
Burns Mechanical offers comprehensive energy-efficient solutions designed to meet your needs, with one-stop shopping combined with single point accountability. Including: energy benchmarking; studies; in-depth engineering; development of energy conservation measures; design-build project development and turnkey execution of the work; building management systems with a real-time energy dashboard; retro-commissioning of environmental systems and ongoing preventive maintenance; and commodity purchasing and demand response strategies.



BVISIONARY, INC.
Bvisionary, Inc. offers green products and consulting services. Bvisionary is an authorized biofuel fireplace dealer for Planika, a European based company. This company was founded by Adriana D'La Rotta Thumann, who has over 20 years of experience, working with major corporations in the area of facilities management, design and construction and corporate real estate.



BYRAM LABS
Byram Labs, headquartered in Branchburg, NJ, is a world-class distributor, manufacturer, modification center, and calibration facility for industrial instrumentation. We have been serving the power generation, power transmission & distribution (Power T&D), and process control industries since 1910. Byram Labs provides customized solutions to customer-specific requirements as well as off-the-shelf products for quick and efficient delivery to customers. Our laboratory is UL approved, NIST traceable, ISO-9000 compliant, and QPL certified.



CALMAC
Air conditioning is the main driver of on-peak energy usage. IceBank® energy storage uses plentiful nighttime electricity to make ice at night for use during peak demand periods the next day. By shifting a building's energy demand from on-peak to off-peak times, ice storage decreases cooling costs by up to 40% and reduces both source energy consumption and greenhouse gas emissions.



CAPSTONE TURBINE AUTHORIZED DISTRIBUTOR, E-FINITY DISTRIBUTED GENERATION

Capstone Turbine Corporation® is the world's leading producer of low-emission microturbine systems, and was first to market with commercially viable air bearing turbine technology. The company has shipped thousands of Capstone turbines to customers worldwide in applications such as combined heat and power, oil and gas, biogas, data center reliability, and peak shaving. These award-winning systems have logged millions of documented runtime operating hours. E-Finity Distributed Generation is the Mid-Atlantic distributor for Capstone Turbine as well as an EPA Combined Heat & Power Partner. Come learn how we are actively promoting energy solutions by designing, integrating, and maintaining this "Jet Engine" technology to create Onsite Combined Heat & Power Plants. With impending utility rate increases and questionable power reliability, our turbines are providing customers with "Green Power" Independence. Visit www.e-finity.com.



CARLO GAVAZZI INC.

CARLO GAVAZZI manufactures industrial and building automation products. We offer a multitude of current, voltage, frequency, and phase monitoring devices, as well as a full range of energy metering and management devices/software, with RS485, Ethernet, and BACnet communications. Some of the products available include: Current Transformers, Monitoring Relays, Panel Meters, Energy Meters, Power Analyzers, Power Quality Analyzers, Smart Power Transducers.



CENTIMARK
CentiMark is a full service commercial and industrial roofing contractor offering a full complement of roofing solutions: roof systems, emergency leak service, roof repair, maintenance programs, and multiple site roof inspections. Our re-roofing services are typically on flat roofs utilizing EPDM roofs (rubber roofing), TPO, bitumen roof, spray polyurethane foam, and coatings. We proudly serve North America as the largest roofing contractor with local offices in your area.



CENTRAL PENN BUSINESS JOURNAL
Central Penn Business Journal, the award-winning business newspaper of record for Central Pennsylvania and publisher of Currents - the Business of Energy, provides more information, analysis and advice pertinent to business than any other local media. The Journal is the most widely read business publication in the region.



CLIMATEMASTER
ClimateMaster has spent over 50 years focusing on the research, development, manufacturing, and sale of the most advanced water-source and geothermal heat pump systems available. ClimateMaster offers commercial and residential products, which have average life expectancies of 19+ years and the lowest operating costs of any heating and cooling system.



CO-EXPRISE
Co-exprise is a strategic sourcing company that offers an Energy Marketplace that delivers best market price for electricity and natural gas. The Co-exprise Marketplace features a strategic sourcing process and a technology platform that includes program and data management, Internet negotiations, quoting, and auction capabilities. The process starts by applying proven sourcing experience to define a customer's energy spend and bid parameters. Co-exprise Marketplace then couples a strategic step-by-step transparent sourcing process with an Internet-based negotiation technology. The resulting online reverse auction is a real-time process in which each bidder is given a generic identifier and can see competitors' bids, but not their names. Participants continue to lower bid prices, within a prescribed amount of time, until best market price is achieved. The Co-exprise Marketplace process is supplier neutral and creates economies of scale by aggregating customer usage to execute the best bid strategy for individual and consortium buying requirements. Because all bids are immediately contractible, Co-exprise Marketplace enables customers to take advantage of market timing opportunities and act quickly to obtain best market price for its energy requirements. Once the bid is complete, the supplier contract is awarded, then Co-exprise carefully audits invoices to assure that the negotiated best market price is implemented. The result: Achieve Best Market Price For Our Customers Every Time.



COMMISSIONING AGENTS, INC.
We focus on manufacturing processes and facilities, with services including commissioning, qualification, validation, manufacturing process improvement, technology transfer, process analytical technology, maintenance programs, operating procedures, training, and cGMP compliance. Our expertise is facilities and manufacturing processes. We specialize in the biotech, pharmaceutical, and medical device manufacturing industry.



COMVERGE TECHNOLOGIES, INC.
Comverge is a leading Clean Energy company that provides innovative solutions to energy challenges through Energy Efficiency and Demand Response solutions. With over 500 North American utility clients, thousands of commercial and industrial clients and 4.5 million devices installed, Comverge energy efficient technology is successfully utilized across North America. Our innovative programs provide solutions to reduce energy usage resulting in enhanced facility performance, lower carbon emissions, and increased reliability.



CONCORD ENGINEERING GROUP (CEG)
CEG is a full service engineering, energy consulting, and commissioning firm offering energy master planning, construction management, facility design, power and utility infrastructure, energy auditing, renewable technologies (solar, wind, landfill/digester gas), combined heat and power, geothermal engineering, full-building commissioning, and comprehensive energy procurement management solutions. CEG is the leader in alternative financing and state/federal incentives for energy conservation and power generation projects.



CONSTELLATION ENERGY
Constellation Energy is a leading supplier of energy products and services to wholesale and retail electric and natural gas customers. It owns a diversified fleet of generating units located in the U.S. and Canada, totaling approximately 9,000 megawatts of generating capacity. A Fortune 500 company headquartered in Baltimore, Constellation Energy had revenues of \$15.6 billion in 2009.



CONTINENTAL CONTROL SYSTEMS, LLC
CONTINENTAL CONTROL SYSTEMS specializes in the design and manufacture of the WattNode AC (kW) power and (kWh) energy meters. Available products include MODBUS, standard PULSE-OUTPUT and LonWorks Watt/hour WATTNODE transducers that offer interoperable power, energy, and energy demand metering. Applications include: LEED certification, net metering, utility and facility submetering—equipment operation and performance monitoring—measurement/verification of power and energy production and consumption, building automation and control.

SHOWCASE

Presenting the latest products and services



COOPER ELECTRIC SUPPLY COMPANY

For over 40 years, Cooper Electric has provided the New Jersey, New York, and Pennsylvania markets with expert electrical supply and service capabilities. Established in 1961 as a family-owned business, Cooper Electric, a Sonpar USA company, is a full-line, single-source wholesaler of electrical supplies. Headquartered in Tinton Falls, NJ, Cooper Electric has over 25 locations, 500 employees strong, and is supported by distribution centers throughout the tri-state area.



COPPER DEVELOPMENT ASSOCIATION (CDA)

Copper Development Association, Inc. is a U.S.-based, not-for-profit association of the global copper industry, influencing the use of copper and copper alloys through research, development, and education, as well as technical and end-user support. CDA is committed to promoting the proper use of copper materials in sustainable, efficient applications for business, industry, and the home.



THE CROM CORPORATION

The Crom Corporation specializes in the design and construction of secure, high-quality, virtually maintenance-free Prestressed Concrete Water Tanks. Crom Prestressed Concrete Tanks are highly regarded by both municipal and industrial clients for their longevity and pleasing appearance. The Crom Corporation has designed and built over 3400 tanks for water storage and wastewater treatment. Since 1952, The Crom Corporation has developed and constantly improved water tank technology focusing on these important attributes: guaranteed watertightness, structural integrity, greatest life-cycle economy, and best aesthetic appearance. The Crom Corporation has become the preeminent prestressed concrete tank construction company by successfully building water storage tanks using the AWWA D110—Type II method. The Crom Corporation currently constructs over 100 tanks per year.



CUSTOMIZED ENERGY SOLUTIONS, LTD.

Customized Energy Solutions is committed to promoting economic development through the advancement of transparent, efficient, and non-discriminatory wholesale and retail energy markets. We focus on empowering our clients to understand these markets and to make prudent investment decisions. Our primary business lines include RTO/ISO Reporting & Analysis, Wholesale Energy Services, Retail Energy Services, Congestion Risk Management, Fuel Management, NERC Reporting, Demand Response, Renewable Energy Services and Emerging Technologies.



DEFENSE SUPPLY CENTER PHILADELPHIA

Defense Supply Center Philadelphia (DSCP), the "Provider of Choice" for all energy efficient lighting and facility maintenance needs in the federal sector, offers a wide variety of commercial lighting and HVAC systems and products. This US Government Agency offers a full range of energy-efficient lighting products such as compact fluorescent, LEDs, metal halides and compatible fixtures. DSCP also provides other facility energy efficient products such as HVAC plumbing and control systems that meet energy guidelines and environmental concerns.



DELAWARE VALLEY GREEN BUILDING COUNCIL (DVGBC)

The Delaware Valley Green Building Council is a nonprofit membership organization whose mission is to transform the Delaware Valley through sustainable and environmentally responsible planning, design, construction and operation of the region's buildings, landscapes, cities, and communities, mindful of the legacy left for future generations.



DENT INSTRUMENTS

DENT Instruments designs and manufactures data loggers and energy recorders for today's energy professionals. Our products are often the first step in developing strong energy strategies and lowering operating costs. For over 20 years, DENT has built a reputation for providing instruments of the highest quality whose robust design and small size make them the loggers of choice for companies large and small.



DG LOGIK

Founded by industry professionals, DGLogik, Inc. is a technology company providing sophisticated tools and methodologies to enable service providers and enterprises to gain meaningful insight of critical performance intelligence through visualization on large data sets. We are a company dedicated to revolutionizing the intelligent data analysis software, user experience, and process efficiency. Having developed a state-of-the-art client-side runtime interpreter of markup languages that dictates content, layout, and interactivity, our core strength and expertise lies in utilizing Adobe technologies to design, architect, and develop Rich Internet Applications (RIAs) that provide an engaging experience to improve user satisfaction and increase productivity.



DIALIGHT

Dialight (LSE: DIA.L) defines the current state of LED lighting technology with continuous innovations in light output, efficacy, and reliability for their complete line of high-specification lighting fixtures specifically designed for industrial, commercial, hazardous location, transportation, and infrastructure applications.



DIESEL & GAS TURBINE WORLDWIDE

Diesel & Gas Turbine Worldwide is the only international magazine dedicated to the products, technologies, and industry news of reciprocating engines and industrial turbines for power generation, oil and gas, marine propulsion, and rail traction installations. If it's in the engine room, it's covered in *Diesel & Gas Turbine Worldwide*. The magazine has an audited, global readership of 21,000 industry leaders and decision makers and is published 10 times per year. The magazine publishes several key surveys throughout the year which serve as the industry's information benchmark. Complementing the magazine is the Global Sourcing Guide—a comprehensive specification and buyer's guide covering engine systems products and technologies. And now with the added power of GSGnet.net—other sites give you the world, GSGnet.net gives you your world.



DIGITAL LUMENS

Digital Lumens develops award-winning Intelligent Lighting Systems for warehouses, manufacturing sites and industrial facilities that are proven to reduce lighting electricity expenses up to 90% while improving light levels. By integrating intelligent, LED-based fixtures—all with built-in sensors and wireless networking—with the LightRules management software, the system slashes lighting energy use and provides detailed operational reports.



DISCRETE WIRELESS, INC.

Established in 2000, Discrete Wireless, Inc. provides the highest value GPS fleet tracking solution in the industry. The MARCUS system is a 100% Web-based application that enables service and distribution businesses to proactively manage fleet operations while reducing operational costs and maximizing revenue.



DOME-TECH, INC.

Dome-Tech, Inc. is a world-class energy engineering and professional consulting services firm that ensures sustainable, high-performance environments throughout a building's life cycle; this is achieved through reducing energy consumption and climate impact while providing a healthy and productive work environment. With over 20 years of experience in customized energy solutions, and saving millions of dollars along the way, Dome-Tech understands our clients' need to gain a competitive advantage through cost-cutting and innovative facilities practices. Comprehensive services span both existing buildings and new construction, and include sustainable building consulting/energy modeling, new building commissioning, building turnover services, energy procurement consulting, benchmarking and conservation opportunities, existing building commissioning, energy performance testing, and turnkey project implementation.



DWYER INSTRUMENTS INC.

Dwyer Instruments, Inc. produces a broad range of competitively priced precision instruments for measuring, transmitting, and controlling pressure, temperature, level, and flow. Many of these instruments are known by their individual brand names: Magnehelic® pressure gages, Photohelic® switch/ gages, Rate-master®, Minit-Master® and Visi-Float® flowmeters; Slack Tube® and Flex-Tube® manometers, and Dwyer® pressure switches.



E-MON

E-Mon manufactures a complete portfolio of energy monitoring products including the E-Mon D-Mon line of fully electronic KWH/demand meters. E-Mon D-Mon meters have been installed for over 25 years in office buildings, malls, shopping centers, hospitals, government facilities, college campuses, and industrial plants for energy management, usage analysis, metering and verification, load control, and cost allocation. Whether your goal is to reduce costs, increase efficiency, or meet mandates of The Energy Policy Act or LEED programs, E-Mon can provide the ideal solution for your application.



EFT ENERGY INC.

EFT Energy Inc. is a leading provider of energy management solutions to business and government. EFT's popular Energy Manager AutoStart solution is a web based, plug and play, "software as a service" (SaaS) system that gets your energy management up and running quickly, easily and at low cost. Energy Manager AutoStart monitors and reports energy consumption, carbon emissions, and costs in real time from an unlimited number of data points, building sites, across all utilities, tariffs, third party databases and all building and automation control systems. It is a mature, fifth-generation product that is easy to install and exceptionally easy to use by all users/property managers, administrators, energy managers and facility engineers. Energy Manager AutoStart ensures that managers throughout the organization will have the most advanced tools drive energy efficiencies, cut operating costs, and create more sustainable, environmentally sound facilities.



EMCOR

EMCOR Group, Inc. is a global leader in mechanical and electrical construction, energy infrastructure, and facilities services. EMCOR gives life to new structures and sustains life in existing ones by its planning, installing, operating, and maintaining the sophisticated and dynamic systems that create facility environments—such as electrical, mechanical, lighting, air conditioning, heating, security, and power generation systems—in virtually every sector of the economy and for a diverse range of businesses around the world. EMCOR represents a rare combination of reach with local execution, combining the strength of an industry leader with the knowledge and care of 170 locations worldwide. The 30,000 skilled employees of EMCOR have made the company, in the eyes of leading business publications, amongst America's "Most Admired" and "Best Performing." EMCOR's diversity—in terms of the services it provides, the industries it serves, and the geography it spans—has enabled it to create a stable platform for sustained results. Our strong financial position has enabled it to attract the best talent, to complete the most ambitious projects, and to redefine the future of the construction and facilities services industry.



EMCOR SERVICES FLUIDICS

Founded in 1968, Fluidics provides a full array of mechanical services to businesses in Philadelphia, southern New Jersey, and Delaware. The company's services include 24-hour, 365-day mobile response and preventive maintenance, onsite building operations and maintenance services, as well as HVAC and plumbing retrofit projects. Fluidics employs approximately 380 technical and service personnel utilizing over 85 service vehicles. Based in Philadelphia, Fluidics is a wholly owned subsidiary of EMCOR Group, Inc. (NYSE:EEME), a Fortune 500 company with over \$4.7 billion in annual sales and a global leader in mechanical and electrical construction, energy infrastructure, and end-to-end facilities services. EMCOR gives life to new structures and sustains life in existing ones by planning, installing, operating, and maintaining sophisticated and mission critical systems in virtually every sector of the economy and for a diverse range of businesses around the world. EMCOR represents a rare combination of global reach and local execution, combining the strength of an industry leader with the knowledge and care of over 26,000 skilled employees at 70 local operating companies in 140 locations worldwide.



ENERGENIC

Energenic specializes in custom energy solutions. Our unique approach is based on a simple premise. When you are responsible for your own energy needs, you think about it differently. Energenic creates sustainable self-contained energy solutions for like-minded organizations. From individual manufacturing and industrial facilities to Fortune 500 companies and everything in between. Key to this distinct approach is our understanding that each organization's needs are unique. We take the time to immerse ourselves in the needs that distinguish your organization, and are able to tailor our energy solutions to precisely address your requirements. We offer a single point of contact for every aspect of the project from start to finish. We dedicate ourselves to exceptional customer service. And we offer the disciplined expertise to engineer fiscally, technologically, environmentally, and sustainably responsible power solutions for generations to come.



ENERGY CURTAILMENT SPECIALISTS, INC.

Energy Curtailment Specialists (ECS) is a private administrator of demand side management, energy efficiency and smart grid services. ECS can design, execute and manage those initiatives on a consultative, project oversight or implementation basis. We develop and deploy strategies to maximize market penetration of technologies and service working in a turnkey, collaborative or private label fashion on behalf of utility and end use clients in markets across North America.



ENERGYCONNECT, INC.

EnergyConnect delivers industry-leading demand response technologies and services to commercial, institutional, and industrial consumers, enabling them to manage their use of electricity in response to market prices or regional power shortages. EnergyConnect's Grid-Connect technology platform provides a scalable, cost-effective, clean technology to enhance the grid's efficiency and reliability.



ENERNOC, INC.

EnerNOC unlocks the full value of energy management for our commercial, institutional, and industrial (C&I) customers by reducing real-time demand for electricity, increasing energy efficiency, improving energy supply transparency in competitive markets, and mitigating emissions. We accomplish this by delivering world-class energy management applications including DemandSMART, comprehensive demand response; EfficiencySMART, data-driven energy efficiency; SupplySMART, energy price and risk management; and CarbonSMART, enterprise carbon management.



eSIGHT ENERGY INC.

Developed by eSight Energy, Inc., eSight is the most sophisticated energy management suite available worldwide. eSight provides powerful techniques for targeting specific areas of energy usage to identify dollar savings. Able to integrate with virtually any type of data onsite (meters, loggers, BAS, SCADA, spreadsheets, etc.), eSight is an extremely intuitive, 100% web-based solution. Find out how eSight can help you start saving money and energy today.



FIELD DIAGNOSTICS (FD)

Field Diagnostic technology reduces energy costs by documenting and prioritizing inefficiencies in HVAC/R equipment for both centrally networked systems and locally monitored facilities. Since 1994 FD technology has been used to evaluate and improve over 300,000 HVAC units nationwide. FD Services offers a wide range of solutions specific to customer needs ranging from energy conservation program administration to technical HVAC/R education services. Customers include Fortune 500's, mechanical service companies, HVAC/R manufacturers, government agencies, and electric utilities.



FLEXIM

FLEXIM AMERICAS CORPORATION

FLEXIM is known for its cutting-edge engineering and quality ultrasonic flowmeters. Ultrasonic flow measurement has become a standard for BTU measurement. Its high turndown range, excellent accuracy, and retrofit installation make it the meter of choice. FLEXIM takes ultrasonic technology to a new level with certified traceable accuracy of both flow and temperature measurement.



FLIR SYSTEMS

FLIR Systems, Inc. is a world leader in the design, manufacture and marketing of thermal imaging and stabilized camera systems for a wide variety of thermography and imaging applications including condition monitoring, research and development, manufacturing process control, airborne observation and broadcast, search and rescue, drug interdiction, surveillance and reconnaissance, navigation safety, border and maritime patrol, environmental monitoring and ground-based security.



FLOSCAN INSTRUMENT CO., INC.

FloScan is a leading manufacturer of Fuel Monitoring Systems for diesel generators rated from 20–4000 kW. Our Fuel Log System displays net fuel usage and totals which can be used to meet NOx emissions reporting requirements. New DataLog PC Software records fuel usage data in spreadsheet format. Priced from \$99–\$4500 per engine.



FLOW SAFE, INC.

Flow Safe offers risk-free design solutions to "green" existing laboratories, featuring our proven, award-winning, patented technology to convert existing fume hoods into high-performance, low airflow hoods, together with energy-efficient, low pressure drop, environmental airflow control products. Flow Safe guarantees energy savings and worker safety protection.



FLUKE THERMOGRAPHY

Fluke Corporation is the world leader in compact, professional electronic test tools. From industrial electronic installation, maintenance, and service, to precision measurement and quality control, Fluke tools help keep businesses up and running.



THE FULTON COMPANIES

Fulton specializes in custom engineered industrial and commercial heating systems featuring steam boilers, hot water and hydronic boilers, thermal fluid heaters, temperature control units, and a full range of ancillary equipment. With manufacturing facilities in the U.S., Great Britain, and China, Fulton is a worldwide leader in the development of heat transfer products. Backed by over 60 years of research, innovation, and experience, Fulton is building on a tradition of success and focused on improving life through heat transfer solutions.



FUNCTIONAL DEVICES

Functional Devices, Inc., a leading U.S. manufacturer since 1969, delivers quality electronic devices to the HVAC, building controls, energy management, refrigeration and lighting industries. Our core offerings include pre-packaged relays, current sensors, power control, power supplies, transformers, and accessories. Functional Devices continues with new innovations for the emerging energy savings market. Check out our newest plug and play devices: Evaporator Fan Controller for walk-in coolers and freezers, and Half-Light Ballast Controller for up to 50% energy savings for lighting.



GAF MATERIALS CORPORATION

GAF Materials Corp is North America's largest roofing manufacturer and will be displaying a solar specific TPO roofing membrane: Everguard TPO—extreme for use in rooftop solar applications. ARMM SOLAR is the Nation's first solar specific roofing consultant that specializes in rooftop solar installation design and monitoring. Both companies can provide a "turnkey" solar install for your building.



REDISCOVERING ENERGY

GDF SUEZ ENERGY RESOURCES NA

GDF SUEZ Energy Resources NA is the second-largest nonresidential retail energy supplier in the U.S. and serves commercial and industrial customers in 11 markets: Delaware, Texas, Massachusetts, Maine, Maryland, New York, New Jersey, Pennsylvania, Illinois, Connecticut, and Washington, DC. The company serves over 65,000 accounts for customers having peak demands ranging from 50 KW to over 200 MW, with an estimated peak load totaling over 8,000 MW. For information, visit www.gdfsuezenergyresources.com.



GLACIAL ENERGY

Glacial Energy is one of the fastest growing national retail energy marketers selling electricity to commercial, industrial, and institutional customers in 16 deregulated markets. Glacial Natural Gas, Inc., an affiliate of Glacial Energy, is currently licensed to sell natural gas in 11 states. *Glacial Energy gives you the power to choose!*

SHOWCASE

Presenting the latest products and services



Global Energy Services

GLOBAL ENERGY SERVICES (GES)

Global Energy Services is a 100% female-owned lighting retrofit company committed to the highest level of service and expertise. GES services include: detailed quality lighting audits and design, accurate energy and maintenance savings calculations, turnkey lighting retrofits, project management, in-house labor force, fixture cleaning and group relamping, ballast and lamp recycling, water conservation and financing. Our goal is to maximize energy savings, enhance light levels, increase net operating profits, increase the market value of your facility, and improve ergonomics. Compliance: fully bonded, insured, and licensed. Organizations we can help: property management, Fortune 500, health care facilities, government agencies, industrial plants, schools and universities.



GLOBALGENERATORSETS.COM

The new GlobalGeneratorSets.com search engine is specifically engineered to help users/specifiers find and compare gen-sets from kilowatts to megawatts anywhere in the world. Those looking for gen-sets and related products can review major generator manufacturers and suppliers and search on the basis of various criteria—from power rating to emissions compliance to location—to find what they need, wherever they need it.



GREEN BOX AMERICA

Green Box designs fluid coolers to replace cooling towers for benefit of your factory, and our Planet Earth. Fluid Coolers provide clean water and in closed-loop to your industrial processes, all year long. The latest generation of fluid coolers are designed with iC3 Technology and provide benefits beyond other manufacturers.



GREENTECH ENERGY SERVICES

GreenTech Energy Services is an innovative energy conservation company that analyzes your current energy use and upgrades with energy-efficient retrofits recommended by the EPA ENERGY STAR Building Program. GreenTech represents your company's future: better energy use for better products or services; better energy use for higher profits; and better energy use for a better, cleaner environment. More efficient energy use is not just a good idea; it's required by federal and local mandates.

H.T. LYONS

contractors | engineers

H.T. LYONS

As a subsidiary of PPL Energy Services, a division of a Fortune 500® energy company, H.T. Lyons provides a unique combination of mechanical expertise and energy awareness. We are your single source for engineering, construction, energy services, building controls, commissioning, balancing and preventive maintenance. By self-performing this comprehensive list of services, we are able to offer our clients the highest quality, most streamlined and cost-effective building services in the industry. Our decades-long track record of quality work translates into repeat customers and an unmatched reputation for high quality mechanical services throughout eastern Pennsylvania, New Jersey and New York.



HELIODYNE

Established in 1976, Heliodyne is one of America's oldest manufacturers of solar water heating equipment. Based out of the San Francisco Bay area, the company manufactures not only flat plate collectors, but heat transfer appliances and controllers as well. Heliodyne products are suitable for both residential and commercial hot water use.



HESS CORPORATION

Hess Corporation (NYSE:HES), with headquarters in New York, is a globally integrated energy company. Hess Energy is the largest provider of electricity, natural gas, and fuel oil to commercial and industrial customers in the 18-state market area in which it operates. Hess Energy also offers customers a unique suite of smart and sustainable energy solutions to manage their energy more effectively and responsibly. With a significant presence in all commodities, and a dedication to reliability and superior customer service, Hess is uniquely positioned to meet the energy requirements of its customers.



HIOKI USA CORPORATION

HIOKI

Hioki is a leading manufacturer in Power Monitoring Analyzers & Memory Recorders. Hioki Power Meters and Memory Recorders can capture high speed data anomalies as fast as 20MHz or log data as slow as once a second or minute. Our family of Power Analyzers works well in the lab for Energy Star Compliant Testing, Utility Power, VFD, Transportation Power, Aerospace Power Frequencies, as well as Fuel Cell, Solar Cell and Vehicle Hybrid Tests. See our complete line of both handheld devices, Field Compliant Testing and Lab Products.

HITECH LED LIGHTS

HITECH LED LIGHTS

Hitech LED Lights is an OEM manufacturer and distributor of LED lighting products. We specialize in commercial and industrial grade LED solutions. Our solid-state LED technology includes replacement bulbs, panels, tubes, flexible strips, LED modules, wall washers, warehouse and high power street/tunnel lights. Our Efficient, and Eco-friendly solutions have been implemented in billion dollar real world projects. We are also one of the few companies that manufacturers MOCVD systems. Hitech LED Lights: Hi-Power LED for Industries and Institutions.



HOWARD LIGHTING PRODUCTS

Howard Lighting Products is committed to a brighter future, and we're doing our part by designing and manufacturing energy-saving lighting that is safer and preserves the environment. We offer a full line of high-quality, fluorescent and HID ballasts, fixtures, and lamps for both commercial and residential uses. Howard Lighting is your source for dependable lighting products, now, and in the future.



HUTCHINSON MECHANICAL SERVICES

Hutchinson is a trusted mechanical contracting firm providing HVAC, lighting, and energy solutions services throughout the tri-state area. From maintenance to design and construction, our team of experts can provide new or retrofit systems for any commercial, industrial, or institutional project. Our mission of "Customer Satisfaction through Quality and Innovation," has enabled Hutchinson to become your first choice for comfort and savings.



ILLUMINATING ENGINEERING SOCIETY OF PHILADELPHIA

IES Philadelphia, a not-for-profit professional organization whose purpose is to advance and disseminate lighting knowledge, is part of the Illuminating Engineering Society of North America. IES Philadelphia holds lighting education courses, monthly programs, and a biennial educational conference

to promote lighting education. Visit our website—www.iesph.org—for up-to-date programs. IES Philadelphia also sponsors educational scholarships to increase awareness in lighting education.



INTEGRYS ENERGY SERVICES

Integrys Energy Services is a retail supplier of natural gas and electricity serving deregulated energy markets throughout the northeast quadrant of the U.S. We are a subsidiary of Integrys Energy Group, Inc. (NYSE: TEG), a Fortune 500 company with a heritage of over 150 years. In 2010, 2009, 2007, and 2006, Fortune named our family of companies among the "World's Most Admired Energy Companies."



KAESER COMPRESSORS, INC.

Kaeser Compressors is the leader in providing reliable and energy-efficient rotary screw compressors and accessories for the industrial user. At the same time, we recognize that having efficient components is only part of the efficiency picture. The greatest efficiency gains are achieved through proper system design. In the course of helping many customers achieve better energy and production efficiencies, Kaeser has refined and improved air audit techniques. The result is our Air Demand Analysis (ADA) program. No other approach offers ADA's unique combination of affordability, convenience, and completeness. As an ENERGY STAR Partner and U.S. DOE Allied Partner, Kaeser is committed to helping industrial users increase compressed air system performance while saving energy and reducing maintenance costs.



KAWASAKI GAS TURBINES - AMERICAS

Kawasaki Gas Turbines manufactures "Green" gas turbine packaged power plants: 1-18 MW's. Kawasaki GT's are used in baseload (8400 hr/yr) cogeneration applications and backup emergency generation (full load in 40 seconds). Our GPB15X unit is the "Greenest" gas turbine on earth: NOx emissions at only 1 ppm.



KINSLEY ENERGY SYSTEMS (KES)

Kinsley Energy Systems is a leading local energy solutions provider for the New England, Mid-Atlantic states, and portions of the Midwest and South Atlantic regions. KES' parent company, Kinsley Power Systems, has been successfully serving customers in the northeast U.S. for more than 45 years. KES provides equipment and/or turnkey cogen/CHP energy solutions for landfill gas, sewage gas, and natural gas applications. As the distributor for MWM, KES incorporates MWM's high-efficiency gas engines (from 350KW to 4.4MW) into its CHP solutions. MWM gas engines have been the choice of many customers for their CHP applications due to their superior overall efficiencies and advanced technologies. We are local and committed to serving with CHP solutions, equipment, parts, and services on a 24x7 basis.



KRAFT POWER

Kraft Power Corporation was founded in 1965 and today we are leaders in the field of generator power systems, combined heat and power (CHP), power transmission products, diesel and gas engines and generator sets for both standby and continuous duty applications, as well as full service, parts, and accessories. We currently operate eight locations in eight states and focus on the sales, distribution, maintenance, and renting of a wide range of gas and diesel engines and generator power systems for industrial, residential, marine, mobile, and combined heat and power/cogeneration applications. Our systems operate on a variety of fuels including natural gas, landfill gas, sewage gas, mining gas, diesel, and biofuels. We offer full 24/7 service 365 days a year. You can rely on Kraft Power Corporation, your power solution provider.



LED WAVES, LLC

LED Waves leads the field in LED lighting. Always a step ahead of the newest energy-saving technology, we specialize in customized, retrofitted LED lights. From electrical engineers, architects, lighting designers, interior designers to contractors; everyone in the industry turns to us to help configure their specialty LED lighting systems.



LEVITON MANUFACTURING COMPANY

Leviton Manufacturing Company is North America's largest manufacturer of electrical and electronic wiring devices. The company offers a wide variety of industrial, commercial, and residential wiring devices, continually introducing high-quality products that set the pace of progress in the industry. Leviton products range from the most complete line of switches, receptacles and wallplates, lighting controls, surge protective devices, and GFCIs, to structured cabling, telecommunications, and home automation products. The company's commercial lighting management systems include intelligent lighting systems and consoles, occupancy sensors, relays, and daylight harvesting systems that reduce electrical energy consumption and provide businesses with significant energy savings.



LIBERTY POWER CORP.

Liberty Power is the only minority-owned retail electricity provider with a national presence. Licensed in 16 markets, Liberty Power serves a wide range of businesses, including public sector, providing them with reliable, low-cost electricity and the outstanding customer service they need to succeed. Liberty Power also offers custom-tailored solutions and is perfectly positioned to fulfill diversity procurement



M&E ENGINEERS, INC.

M&E Engineers is a full-service mechanical/electrical consulting engineering firm, providing engineering, design, and related services for HVAC, electrical, plumbing, and fire protection systems. A core company focus for M&E Engineers has been energy efficiency, including audits, analysis, and retrofits. We provide LEED consulting and are proficient in sustainable design and alternative energy.



MITSUBISHI ELECTRIC HVAC

For more than 27 years, Mitsubishi Electric HVAC has been a leading marketer of intelligent and efficient air-conditioning and heating systems for new construction or renovation. Product lines include CITY MULTI Variable Refrigerant Flow Zoning systems and Mr. Slim Split-ductless A/C and Heat Pumps.



MIURA BOILER, INC.

Miura Boiler was founded in Japan in 1927 and has grown to be one of the largest boiler manufacturers in the world. Miura is known world wide for our commitment to protecting the environment and our innovative and efficient boiler designs. Our LOW NOx steam and hot water boilers meet and exceed current and proposed regulations for nitrous oxide emissions levels, as low as 20ppm NOx at 3%, corrected O2.



NATGUN CORPORATION

Natgun Corporation builds the highest-quality Thermal Energy Storage (TES) and anaerobic digesters for all energy markets. Each tank is designed by Natgun engineers to maximize the energy effectiveness and minimize the operational costs for the owner. Because they are constructed of rein-

forced concrete, they can be built above ground, partially buried, or fully buried. Natgun tanks are built watertight and maintenance-free, providing decades of continuous service for owners.



THE NATIONAL ASSOCIATION OF POWER ENGINEERS (NAPE)

The National Association of Power Engineers, the oldest engineering society in the U.S., traces its roots back to 1882. Our stated mission is the proliferation of education and licensing, toward the protection of life and property, in the various disciplines that comprise power engineering. Our local chapter meets on the second Tuesday evening of each month to participate in some technical presentation.



NATIONAL TECHNICAL INFORMATION SERVICE (NTIS)

The National Technical Information Service serves as the largest central resource for government-funded scientific, technical, engineering, and business-related information available today. For more than 60 years NTIS has assured businesses, universities, and the public timely access to approximately three million publications covering over 350 subject areas. Our mission supports the Department of Commerce mission to promote the nation's economic growth by providing access to information that stimulates innovation and discovery.



NJ HIGHER EDUCATION PARTNERSHIP FOR SUSTAINABILITY (NJHEPS)

The New Jersey Higher Education Partnership for Sustainability, whose members include 40 Garden State campuses, was launched in March 1999. NJHEPS supports New Jersey campuses in becoming models and messengers of sustainability to our society and the world. The Partnership includes faculty, administrators, and students, cooperating with friends throughout government and the private sector.



NJ SMARTSTART BUILDINGS

NJ SmartStart Buildings is the commercial and industrial component of the NJ Clean Energy Program from the Board of Public Utilities. The program provides significant financial incentives for incorporating approved energy efficiency measures in new construction, renovation and equipment replacement projects. Qualified technologies include heating and cooling, lighting and lighting controls, motors and drives, water heating and a custom measures track. Visit our website—NJCleanEnergy.com/ssb—for details.



NJ SOLAR POWER

NJ Solar Power is a leading Solar Electric Engineering Firm that offers a complete line of turnkey solar electric system solutions for residential, commercial, and government clients. We are dedicated to delivering the most reliable, cost-effective solar electric systems using the highest quality products available. Our staff of engineers, electricians, and general contractors manage all aspects of a solar electric system's design and installation and ensure a complete and tested system. We work directly with leading vendors in the solar industry in order to deliver the highest quality photovoltaic (PV) components available today. Quality Attributes Software now offers a portfolio of intelligent building software applications entitled iEnergy™ Software Solutions providing real-time energy data at the individual building, campus, and enterprise portfolio level. Our products and services enable and empower building stakeholders to be more energy efficient by becoming better informed and ultimately make better decisions. Incorporating our solutions into energy reduction strategies and by making these small improvements can help reduce energy consumption, carbon footprint, and ultimately decrease costs anywhere from 5% to 30% annually.



NOREN PRODUCTS, INC.

Noren Products manufactures air-to-air and air-to-water heat exchangers for cooling sealed electrical panels without letting contaminants inside (including wash down, and hazardous locations). Compact Cabinet Coolers prevent failures and downtime caused by overheating electronics. Noren units are easy to install, low maintenance, Freon-free and cost a fraction of air conditioning. Available in NEMA 12, 4, 4X, Stainless Steel, UL Listed, cUL, & CE.



NORESCO

As one of the largest U.S. energy services companies, NORESKO specializes in the development, design, construction, financing, and operation of energy and environmental efficiency projects, performance contracting and central energy plants. NORESKO clients include U.S. government agencies, state and local governments, public housing authorities, school districts, universities, and industrial and commercial businesses. NORESKO has implemented more than \$2.5 billion in energy savings at more than 2,000 sites throughout the U.S. and abroad.



North America Power Partners (NAPP)

North America Power Partners is a full-service Demand Response Provider. NAPP will represent and manage a facility's strategic assets in the wholesale electric markets and state programs.



NORTHEAST ENERGY SYSTEMS

Northeast Energy Systems and Western Energy Systems are GE Energy's authorized distributors for Jenbacher gas engine systems throughout the northeastern U.S., California, Oregon, Alaska, Hawaii, and the Caribbean region. Focused exclusively on gaseous fueled engine and power generation systems, both NES and WES provide comprehensive application, sales engineering, systems integration, and parts and service capabilities. As part of the Penn DDA/Penn Power Systems organization, both companies bring over 50 years of experience in reciprocating engine power applications.



OBVIUS

Obvius LLC provides cost-effective, do-it-yourself energy information solutions for commercial, industrial, government, and educational facility owners. With thousands of deployments worldwide, the company's unique data acquisition and wireless communications platforms allow end users and contractors plug and play connectivity for a wide range of meters (electric, gas, water, steam, Btu's) plus easy integration of the information collected into any software platform for reporting and display.



ONICON INCORPORATED

ONICON Incorporated manufactures highly accurate flow meters and Btu meters for chilled water, hot water, condenser water, and steam and natural gas systems. They are ideally suited for campus and central energy plant applications, as well as mixed-use facilities. Retrofit kits are available for installation without shutdown. Btu meters are compatible with BACnet, LONWORKS, MODBUS, JCI-N2 Metasys and Siemens-P1 Apogee networks.

SHOWCASE

Presenting the latest products and services



OSRAM SYLVANIA
OSRAM SYLVANIA is a leader in lighting solutions that feature innovative design, energy-saving technology, and lighting service/maintenance solutions. The company sells products for homes, businesses, and vehicles primarily under the SYLVANIA brand name, and also under the OSRAM brand. OSRAM SYLVANIA is the North American operation of OSRAM GmbH, a wholly owned subsidiary of Siemens AG.



PFISTER ENERGY
PFISTER ENERGY, a renewable energy company, is a national provider and turnkey installer of building integrated alternative energy and energy efficiency solutions. Pfister's range of complementary "green solutions" includes solar photovoltaics, BIPV, solar thermal, natural daylighting, fuel cells, wind turbines, solar lighting, rainwater harvesting, green roofing, geothermal, and building envelope improvements. Pfister Energy specializes in Solar-Integrated Roofing.



PHILADELPHIA GAS WORKS
175th ANNIVERSARY SINCE 1836
Globalcon Host: PHILADELPHIA GAS WORKS
For the last 175 years, the Philadelphia Gas Works (PGW) has proudly served the City of Philadelphia. As the largest municipally owned natural gas utility in the country, PGW provides green energy to approximately 500,000 residential, commercial, industrial, and municipal customers. It has a distribution system of approximately 6,000 miles of gas mains and service pipes, and is managed by the Philadelphia Facilities Management Corporation PFMC, a non-profit corporation.



POWERIT SOLUTIONS
Powerit Solutions is a hardware and software solution that helps commercial and industrial users understand and control their energy costs. The Spara energy management system (Spara EMS) works to predict and adjust energy usage based on parameters you provide and control. Site-wide control results in maximum savings, empowered decision making, optimal equipment management, and a greener planet. And it does all this without risking production, quality, comfort, or safety.



PPL ENERGYPLUS
PPL ENERGYPLUS
PPL EnergyPlus is the successful energy marketing and trading subsidiary of PPL Corporation, a Fortune 500® energy company based in Allentown, PA. We are part of a strong and stable Pennsylvania-based company with 90 years of experience in the energy business. We sell customized electricity and natural gas supply, renewable energy, energy services and options such as demand-management programs to meet the diverse needs of business customers across Pennsylvania, and soon in neighboring states as well.



PRECISION-PARAGON (P2)
For nearly 20 years Precision-Paragon (P2) has delivered ultra-efficient lighting fixtures, rapid response manufacturing, and the most dedicated customer support in the industry. (P2) is run by lighting retrofit industry veterans who have built the company for a single purpose: to deliver exactly what our customers want.



PREMIER ENERGY GROUP
Deregulation of the natural gas and electricity markets has created energy procurement opportunities for many companies. However, taking full advantage of these opportunities requires an in-depth knowledge of utility tariffs and rules, as well as an understanding of the potential risks and rewards. Premier Energy Group has the expertise to help your company identify the opportunities created by energy deregulation. We have extensive experience in the utility and deregulated energy industries and have successfully guided hundreds of industrial and commercial customers through the complexities of the energy procurement process.



QUALITY ATTRIBUTES SOFTWARE (QAS)
Quality Attributes Software is dedicated to helping our customers significantly reduce building energy costs, energy consumption, and carbon emissions through our "best in class" iBEnergy Software Suite. Our intelligent software applications provide real-time insight at the individual building, campus, or enterprise portfolio level and are easily deployed via our Software as a Service (SaaS) model. Since its inception in 2003, QAS has been a pioneer in the energy intelligence, monitoring, and green solutions industry. Our products and services enable and empower building stakeholders to be more energy efficient realizing savings that can range from 5% to 30% annually. Our proven solutions are being used by a host of leading commercial and financial organizations, government agencies, and educational institutions. We strongly believe that how a building performs is a reflection of the people in it, and QAS delivers the products and services that will enable and empower building stakeholders to be more energy efficient.



REGENCY LIGHTING
Regency Lighting specializes in all types of lighting products and services—energy-efficient lamps, LEDs, ballasts, fixtures, batteries, fuses, plastics, exit signs, customer lighting products, controls, sockets, new construction, and retrofitting services, as well as scheduled and on-call maintenance services. Our 25-plus years of lighting experience, along with our seven nationwide warehouses, makes our team your greatest asset. Our sales force, customer service team, new construction, and maintenance services departments focus on identifying and meeting the individual needs of an array of customer types. At Regency Lighting our dedication to lighting is passed on to our customers in the form of deep inventory levels, strong delivery logistics, multiple ordering processes, and finally specialized reporting capabilities.



RELIABLE CONTROLS CORPORATION
We specialize in designing and manufacturing Internet-connected building controls and building automation controls that are simple, flexible, and competitively priced. Known as direct digital controls, building automation systems, or building management systems, our MACH-System is used to monitor and control the mechanical/HVAC and electrical/lighting equipment found in every kind of building in the world. Our designs utilize the ASHRAE standard BACnet protocol and our building automation controls ship with an industry best 5-year warranty. Our dynamic team develops innovative and dependable building controls that help you to operate your facility in an environmentally responsible way. We take great care in evaluating and implementing new technologies, and have earned a sterling reputation for outstanding customer service. Our unusually high customer loyalty stems from our ability to be good listeners and to deliver practical, easy-to-use building solutions. All design, development, assembly, service, and repair are housed under one roof in our headquarters in Victoria, BC, Canada.



RETRO-TECH SYSTEMS, INC.
Retro-Tech Systems, Inc. is an established national leader in the lighting industry, engaged in the engineering, designing, and installing of energy-efficient lighting systems. Retro-Tech Systems, Inc. has designed and installed lighting projects for a wide range of commercial, industrial, educational, medical, governmental, institutional, and retail facilities across the

U.S. Retro-Tech Systems, Inc.'s mission is to be the preferred turnkey designer, engineer, and installer of energy-efficient lighting systems, exceeding our customer's expectations through a total commitment to quality products and exceptional service.

RF SYSTEM Lab.

RF SYSTEM LAB
RF System Lab manufactures a highly-portable video borescope with joystick-controlled, four-way articulation. Features include a built-in 3.5" LCD display, on-board image and video capture capability, 2X digital zoom and easy one-hand operation. This ground-breaking video borescope is perfect for a wide range of industrial inspections. It is new to the market and very competitive on price and features.



ROVANCO PIPING SYSTEMS
"Sustained Success is no accident" and it's certainly no accident that Rovanco is a leading manufacturer of foam pre-insulated, high temp conduit and containment piping systems in the United States. Rovanco also provides heat trace systems, leak detection, cathodic protection and field service inspections. We market our products through a nationwide network of manufacturers representatives.



RUSSELL SOLAR
Russell Roofing Company, Inc. is a full-service, certified company specializing in all types of exterior products and services. We provide distinct and dependable service to our customers while maintaining a safe, secure, and professional work environment for all employees. Our business flourishes when we establish confidence within the community by acquiring your trust and respect.



SATEC, INC.
SATEC is a global leader of intelligent power measurement instrumentation. SATEC offers a full line of metering, power quality and fault recording products for the proper "Powerful Solution" for all your measurement, monitoring, and control needs. SATEC's "Smart & Simple" approach to digital design has been revolutionizing the industry with many unique application oriented features.



SCHWANK
Looking to reduce fuel use and carbon footprint by up to 65%? Product Innovation Award winner at ASHRAE 2010, Schwank offers the most fuel efficient infrared heating systems, with patented technology. Studies show Schwank has the lowest warrantee claims and best on-time service in the industry—and the only heater that provides comfort from over 100 feet high.



SENSOR SWITCH, INC.
Sensor Switch is an industry leader in developing and manufacturing occupancy sensor products and technology for lighting control. Our years of experience and wide breadth of sensor and photocell daylight control products ensure we can provide a reliable solution for any application or building type. Schools, warehouses, factories, offices, government buildings, retail stores, you name it, we've sensed it! And while the industry struggles to catch up, Sensor Switch keeps moving further ahead by introducing new products and technologies.



SENTRY SWITCH
Sentry LLC, offers the Sentry Switch, a centrally controlled wall light switch designed to replace conventional toggle or decorator style light switches in commercial lighting control applications. Sentry Switches work with your building's time clocks and a relay contactor panel to remotely turn off lighting, yet they allow complete local override. With the Sentry Switch, lights stay off until the area is occupied. The Sentry Switch provides a simple, reliable, and cost-effective lighting control system that begins paying dividends immediately upon installation. It is easily retrofitted into an existing building without costly installation or changing user habits.

Solar Turbines

A Caterpillar Company
SOLAR TURBINES INCORPORATED
Solar® offers complete sustainable energy systems—from engineering specification to asset management—for your 1-50 MW power needs. We can help with your district heating/cooling, cogeneration, base-load electricity, dispersed power, combined-cycle, peak shaving, distributed generation and standby power needs for a wide variety of facilities, including industrial/ processing facilities, buildings and institutions, and distributed power plants.



SPIRE SOLAR SYSTEMS
Spire Solar Systems is a full-service solar firm specializing in large photovoltaic systems for commercial, government, and utility clients. We offer an extensive range of PV technologies and capabilities that can be tailored to your unique requirements including site and financial analysis, system design and engineering, access to key materials, installation and interconnection, maintenance programs, as well as access to funding and PPA financing.



SPRAGUE ENERGY
Founded in 1870 as a distributor of coal and oil, today Sprague Energy is the leading independent supplier of energy products and related services in the Northeast. Sprague has been providing its industrial, commercial, utility, and wholesale customers with customized natural gas services since 1983. Sprague delivers natural gas services behind all major local distribution companies throughout the Mid-Atlantic and New England. As Sprague manages the entire natural gas supply process we provide our customers with customized energy solutions, unsurpassed supply reliability, and competitive pricing. Sprague also offers a variety of pricing and payment methods, dual fuel capabilities, firm and swing services, load following supplies, and transportation and storage optimization services.



SUSTAINABLE ENERGY FUND (SEF)
Sustainable Energy Fund is a nonprofit organization focused on reducing financial, educational, and regulatory barriers to sustainable energy future. SEF's educational programs, such as the award winning Solar Scholars, create an understanding and passion for sustainable energy in leaders of today and tomorrow. To overcome traditional financial barriers, the organization provides specialized loans and leases for energy efficiency and renewable energy projects.



TECOGEN, INC.
Tecogen is a leading manufacturer of combined heat and power (CHP) products including natural gas engine-driven cogeneration and air conditioning systems for industrial and commercial use. Tecogen systems supply electric power or cooling while heat from the engine is recovered and purposefully used at the facility. The benefits are dramatic reductions in both energy costs and greenhouse gas emissions. Tecogen has an installed base of more than 2200 units supported by an established network of engineering, sales and service personnel across the U.S.



EQUIPMENT.NET
Equipment prides itself as an established and expanding World Class Supplier and Distributor of Test and Measurement Instrumentation. Presently Equipment supplies product to the Industrial, Electrical, Power, Residential and HVAC test and measurement instrumentation markets. At the booth, specialty suppliers FLIR and Hioki will demonstrate the efficiency, cost savings and preventative maintenance analysis of using Thermal Imagers and cost savings for Energy Monitoring and Power Quality Analysis.



TERRAGLO LIGHTING
TerraGlo Lighting is an LED luminaire manufacturing company based out of Warminster, PA. TerraGlo is an established corporation specialized in the research, development, engineering, and marketing of LED-based lighting solutions. Its lighting product line includes LED downlights, troffers, spotlights, and architectural accent lighting—and we do custom design work.



THE CENTER FOR BUILDING KNOWLEDGE/NJIT
The mission of NJIT Center for Building Knowledge (CBK) is to generate new knowledge that improves the built environment and enhances quality of life. Increasingly over the last 10 years, this mission has focused on energy efficient and sustainable facilities, with a focus on the interface between energy efficiency innovations and their application to real world buildings.



TOZOUR ENERGY SYSTEMS, INC.
Tozour Energy Systems, Inc. is a full-service, HVAC and building automation provider, comprised of three business entities: Tozour-Trane, HVAC Parts and Supplies, and Tozour Energy. The company provides customers with a diverse range of solutions including building automation, equipment services, energy conservation services, green building design, controls, parts, supplies and responsible technical support. Tozour-Trane is a commercial sales office for Trane/Ingersoll Rand and a leader in the commercial HVAC industry in the Philadelphia/South Jersey markets. Tozour-Trane HVAC Parts and Supplies is a factory-authorized parts distributor, stocking a wide variety of commercial HVAC supplies, tools and accessories, with three locations within the Philadelphia and New Jersey markets. Tozour Energy Services is our team of energy professionals who provide retro-commissioning, energy assessments, master plans for energy reduction, and self-financed energy projects with guaranteed and validated outcomes.



TUSTIN ENERGY SOLUTIONS
Tustin Mechanical Services (TMS) is a member of the U.S. Green Building Council. As such, we are pleased to present our customers with a variety of energy saving options that have enormous potential for increasing investment value and reducing operating costs. With new energy legislation on the horizon, we realize that energy management is a paramount concern. High-performance green buildings are quickly becoming the norm of the building industry. What does this mean for owners and managers of existing buildings? From building automation to Retro-Commissioning to LEED certification for Existing Buildings, TMS can help you each step of the way, by finding solutions to energy management issues through building automation and processes aimed at optimizing the performance of mechanical systems. The building automation product lines we offer feature open system architecture allowing for ease of installation and integration with existing systems. Our goal is to help you maximize your bottom line in a time of ever-increasing energy costs and new legislation. Our professionals can help you in many ways, including: *LEED-EB Certification—Leadership in Energy and Environmental Design for Existing Building Certification* is the nationally accepted benchmark for high-performance, sustainable, commercial-use buildings. *Building Automation—Building control systems reduce energy consumption and operating costs, improve environmental comfort, and enable buildings to perform more efficiently.* *Retro-Commissioning—This process optimizes a building's performance by focusing on existing mechanical systems. Due Diligence—We help you analyze the mechanical systems of any potential acquisitions. Whether you'd like to optimize the performance of existing systems, automate your building, or pursue LEED-EB certification, the professionals at TMS look forward to helping you maximize your operational efficiency while minimizing environmental impact.*



UE SYSTEMS INC.
Ultrasound Energy Conservation from UE Systems, Inc. offers analog and digital ultrasonic instruments for compressed air, steam trap, valve, and mechanical inspection. The Ultraprobe series, the most recognized name in the industry, features data management, on-board sound recording, spectral analysis software supported by world-class training programs. New: Compressed gas survey software provides cost avoidance and carbon footprint impact surveys.



UNITED ENERGY PRODUCTS, INC. (UEP)
United Energy Products, Inc. is a manufacturer's representative firm serving Maryland, Delaware, Virginia, Washington, DC, Eastern Pennsylvania, and Southern New Jersey. Fulton Companies is a global manufacturer of heat transfer equipment, including condensing/near condensing hydronic boilers, steam boilers, and thermal fluid heaters. UEP has proudly represented Fulton for over 20 years in the Baltimore/Washington metropolitan area and due to the success of this partnership, UEP is excited to expand their efforts with the Fulton product line into Delaware, eastern Pennsylvania (Philadelphia), and southern New Jersey. For more information on UEP, visit www.uepsales.com. For more on Fulton, please visit www.fulton.com.



UGI PERFORMANCE SOLUTIONS
UGI Performance Solutions, a service network of wholly-owned subsidiaries of UGI, incorporates exceptional design and engineering capability, world-class execution resources, and the innovation and ingenuity of hundreds of dedicated professionals. We are the premier regional solution provider with the capability to design, build, own, operate, and maintain energy and efficiency assets from the wellhead to the water heater. We uncover clean, innovative, and effective solutions and technologies that deliver improved performance, a healthier environment, and significant impact to our customers' bottom line.



UNIVERSAL LIGHTING TECHNOLOGIES
Universal Lighting Technologies is a global leader in the design and manufacture of high-efficiency lighting ballasts and control systems. The company offers a full line of electronic and magnetic ballasts for compact fluorescent, linear fluorescent, and HID lighting, along with a comprehensive line of digital and analog dimming systems.



VEOLIA ENVIRONMENTAL SERVICES
Veolia ES Technical Solutions, LLC, is a global leader in recycling hazardous and universal waste. Whether you have large or small quantities of fluorescent lamps, ballast, batteries, mercury waste, or computer electronics we can help you set up a cost-effective, safe, and compliant recycling program.



VERIS INDUSTRIES, INC.
Veris Industries is a premier provider of energy and environmental sensor products and is recognized for setting new standards in customer service and product innovation. Known for providing easy-to-use, labor-saving products, whether it's a current sensor for monitoring positive proof of flow, a CO2 sensor for demand ventilation, or a power meter for departmental budgeting, Veris Industries has the ideal product to meet your needs.

SHOWCASE

To exhibit at the show, call (770) 279-4392



WARREN CONTROLS

Through experience, product design excellence, and superior production capabilities; Warren Controls has earned a sterling reputation as an end user and U.S. military programs. Product lines include building automation control valves, industrial process valves, mechanical level controls for deaerators and boilers, and military/marine valves to MIL specifications.

Washington Gas Energy Services
A Washington Gas Affiliated Company

WASHINGTON GAS ENERGY SERVICES (WGES)

Washington Gas Energy Services, Inc. is one of the largest and most experienced natural gas and electricity suppliers in the Mid-Atlantic region. Over 200,000 commercial and residential customers in Maryland, Virginia, Delaware, the District of Columbia, and now serving Pennsylvania depend on WGES to supply their energy needs. WGES provides you the option to enhance your electricity with wind energy credits from regional wind farms.

Watt Stopper®

WATT STOPPER

WattStopper is a leading manufacturer of energy-efficient lighting controls

for commercial, industrial, and residential use. We help customers find convenient ways to save energy, meet green initiatives, and comply with energy codes with our comprehensive range of products, programs, and services.



WDG SILICONES

West Development Group (WDG) specializes in silicone and polyurethane foam technologies used in the roofing industry. The company is committed to sustainability and protecting the environment through ecologically sound products and practices. WDG products are developed with knowledge gained from over 30 years of input from roofing contractors. The WDG roof system is the only total silicone roof that makes total ecological sense. A quality silicone roof system helps save money in installation and maintenance. This one helps save the planet.



WINSOL GROUP, LLC

Winsol Group is a renewable energy total solution provider for solar-wind power technology convergence with hybrid LED lighting that aims to provide energy-saving designs and systems integration services for the industry. As the world society has been pressed on the critical issues of energy

crisis, global warming, and environmental protection, the nation that leads on energy saving will be the nation that leads the world in the 21st Century. Winsol Group believes that it is our responsibility for mankind to contribute to future renewable and clean energy saving solutions for next generation. Winsol Group is operated and managed by industry experts from solar power, wind power, and solid state lighting solution provider with R&D, manufacturing, and management for the following capabilities: 1. Solar Power System Design (High efficiency Flexible Solar PV); 2. Wind Power Generator (HAWT & VAWT) System Design and Integration; 3. LED lighting design and Opto-electronics System Integration; 4. Thermal management system control. With these core competencies, we can provide ecologic, ergonomic, and economic solutions to deliver the next generation total energy savings for solar power, wind power, and hybrid LED lighting systems.

WorldEnergy

Tap the Power of Intelligence

WORLD ENERGY

World Energy Solutions, Inc. (NASDAQ: XWES; TSX: XWE) operates online exchanges for energy and green commodities. For buyers and sellers of electricity, natural gas, capacity, and green-energy assets who are impacted by today's volatile markets, World Energy's proven approach has transformed the normally complex procurement process into a powerful, streamlined vehicle for cost savings. World Energy operates three exchanges: the World Energy Exchange for electricity, natural gas, wholesale, and green power; the World DR Exchange for demand response services; and the World Green Exchange for environmental commodities.

REGISTRATION

GLOBALCON 2011 conference, seminars, and expo

GLOBALCON 2011 WILL BE HELD AT:

Pennsylvania Convention Center, 1101 Arch Street, Philadelphia, PA

HOTEL RESERVATIONS

Room blocks have been reserved for Conference attendees at these hotels:

Philadelphia Marriott Downtown

Special group room rate of \$199 single/double per night have been arranged for AEE program participants. In order to receive this special rate, phone at (800) 266-9432. Be sure to mention *Globalcon 2011* when calling in order to receive special group room rates. Room block will be held until **March 7, 2011**, or until the block is filled, whichever comes first, so we recommend that you make your hotel reservation as early as possible. The hotel is located at 1201 Market Street, Philadelphia, PA 19107, and is connected via skybridge to the convention center.

Sheraton Philadelphia City Center

Special group rates of \$184 single/\$204 double per night have been arranged for AEE program participants. In order to receive this special rate, phone at (800) 325-3535. Be sure to mention *the Association of Energy Engineers, or Globalcon 2011* when calling to receive special group rates. Room block will be held until **February 25, 2011**, or until block is filled, whichever comes first; we recommend you make your reservation as early as possible. The hotel is located at 17th and Race Streets, Philadelphia, PA 19107, 2 blocks from the convention center.

Hampton Inn City Center Philadelphia

Special group rate of \$153 single/double per night have been arranged for AEE program participants. In order to receive this special rate, phone (215) 665-9100 or (800) 426-7866. Be sure to mention *Code AEE* when calling in order to receive special group room rates. Room block will be held until **February 28, 2011**, or until the block is filled, whichever comes first, so we recommend that you make your hotel reservation as early as possible. The hotel is located at 1301 Race Street, Philadelphia, PA 19107, 1.5 blocks from the convention center.

Four Seasons Philadelphia

Special group rate of \$190 single/double per night have been arranged for AEE program participants. In order to receive this special rate, phone (215) 963-1500 or (866) 516-1100. Be sure to mention *the Association of Energy Engineers* when calling to receive special group rates. Room block will be held until **February 19, 2011**, or until the block is filled, whichever comes first; we recommend you make your hotel reservation as early as possible. The hotel is located at One Logan Square, Philadelphia, PA 19103, one block from the convention center.

PREREGISTRATION

1. **BY MAIL (All Events):** Complete the registration form below and return it with check or credit card number to: Registrar, Association of Energy Engineers, 4025 Pleasantdale Road, Suite 420, Atlanta, GA 30340-4264.

2. **BY PHONE (All Events):** For credit card payments only, you may register by phone by calling:

Conference: (770) 447-5083, Ext. 226

Seminars: (770) 925-9633

3. **BY FAX (All Events):** If you plan to pay by credit card, you may complete the registration form below, including all necessary credit card information, and transmit a completed registration form to the following FAX number:

(770) 447-4354

Federal government agency participants registering by FAX must submit a completed "Request, Authorization, Agreement, and Certification of Training" Form or completed DD1556 forms with completed registration form.

4. **ONLINE** You may register online at:

www.globalconevent.com

Please enter "GCEarly1" at checkout and discount will be applied before your credit card is charged.

Your completed registration form, along with full payment, should be received no later than **March 18, 2011** (to receive early registration discount). After that date, plan to register onsite at the Pennsylvania Convention Center. For questions reregarding registration, call:

(770) 447-5083, Extension 226

JOIN AEE AND SAVE ON YOUR REGISTRATION FEES

By completing the form, you can apply for membership in AEE and then qualify to take the member rates on all portions of the program for which you register. Membership benefits include discounts on continuing education programs and books, plus free subscriptions to *Energy Engineering*, *Strategic Planning for Energy and the Environment*, *Energy & Power Management*, and *Energy Insight*.

REGISTRATION CANCELLATION POLICY

Adjusted refund of conference fee (less \$125 service charge) will be made if AEE Registrar is notified in writing on or before **March 18, 2011**. No refunds made after **March 18, 2011**. Substitutions may be made, but must be received in writing. Should a program be cancelled because of weather, illness, or any other reason, all attendees will be notified as early as possible, and our liability will be limited to the return of the registration fee.

CORPORATE / GOVERNMENT LEADER GROUP RATES

Send 3 or more delegates to the conference and save on individual registration fees and also receive recognition as a Corporate or Government Leader. Your logo will appear on signage, onsite materials, and the show website. See page 6 for complete details. For more information on the Corporate/Government Leader Program, contact Bill Kent at bill@aeecenter.org or call (770) 447-5083 ext 217.

GLOBALCON 2011 CONFERENCE, SEMINARS, AND EXHIBITS REGISTRATION FORM

PHOTOCOPIES OF THIS FORM MAY BE USED. Federal government employees must include DD1556 forms with registrations.

For Special Early Registration Discount, your completed registration form **MUST BE RECEIVED NO LATER THAN MARCH 18, 2011**. After that date, plan to register onsite. Detach & mail completed registration form to: Registrar, AEE, 4025 Pleasantdale Road., Suite 420, Atlanta, GA 30340-4264 Or, if you are paying by credit card - Please FAX your typed, completed form to: (770) 447-4354

1 ■ Delegate Information *No one under 16 years of age admitted.*

Name: Mr. Ms. _____
LAST FIRST MI

Title _____

Name for Badge _____

AEE Member No. (if applicable) _____
(Must be provided if you are already a member and taking member rates.)

Company _____

Address _____

City/State/Zip _____

Phone (____) _____ FAX (____) _____

E-Mail Address _____

Please complete as part of registration:

1. TYPE OF FIRM/BUSINESS (Check only one):
- Commercial Institutional Government Consulting Eng. Press/Media
- Industrial Construction/Architect Util./Energy Producer Mfr./Vendor
2. OCCUPATION/TITLE (Check only one):
- Manager V.P., President, CEO Owner/Developer Plant Engineer/Facility Mgr.
- Engineer Consultant Sales/Marketing Educator/Researcher

2 ■ Free Registration: Expo Only

Check here to preregister for exhibits only. To receive free registration, you must mail or fax this form to reach us no later than **March 18, 2011**. (This saves you the \$40.00 admission at the door.) Please send "Attn: Dept. EO" or fax to (770) 447-4354.

3 ■ Special Events

- New Technologies Breakfast** / March 30 / 8:00-9:00 am / FREE
- Tour: Pennsylvania Convention** / March 30 / 1:00-2:00 pm / FREE
- CWEEEL Breakfast** / March 31 / 7:30 am-9:00 am / FREE
- AEE Chapter Luncheon** / March 31 / 12:00 noon / Included for full paid conference attendees \$20 for all others
- CWEEEL Reception** / March 31 / 4:00-6:00 pm / FREE for CWEEEL members / \$40 nonmembers

AEE Membership Application (Optional)

I wish to become a member of the Association of Energy Engineers in the classification checked below:

MEMBER-A graduate of an engineering college or university or a registered professional engineer or architect. (Persons who believe they are qualified by experience or related degree may petition for full membership consideration.)

AFFILIATE MEMBER-A person interested in the objectives of the Association who does not meet the above criteria to be a full member.

If you are a registered Professional Engineer or Architect, please indicate state(s) and registration number(s):

State _____ No. _____ State _____ No. _____ Years of experience in energy field: _____

University _____ Degree _____ Year _____

Additional pertinent information may be listed on a separate sheet and attached.

I certify that the statements made in this application are correct and I agree, if elected, that I will be governed by the Constitution and Bylaws of the Association as long as I continue to be a member. I furthermore agree to promote the purposes of the Association so far as shall be in my power.

(APPLICANT'S SIGNATURE)

(DATE)

Please choose one of the following AEE Membership categories:

- AEE Membership Only - Dues \$185
- AEE Membership plus Cogeneration & Distributed Generation Institute - Dues \$215
- AEE Membership plus Environmental Engineers & Managers Institute - Dues \$215
- AEE Membership plus Energy Services Marketing Society - Dues \$215
- AEE Membership plus Facility Managers Institute - Dues \$215
- AEE Membership plus Alternative & Renewable Energy Development Institute - Dues \$215
- AEE Membership plus Council on Women in Energy & Environmental Leadership - Dues \$215

Appropriate membership fee must be included with your total registration payment for your application to be processed and to have the member price to apply to the registration for this program.

Program Options *Customize your training by preregistering for the events you wish to attend.*

4 ■ Conference / March 30-31, 2011

Please fill in appropriate fee

Conference registration entitles you to attend any of four conference tracks. Fee includes luncheons March 30-31, copy of proceedings, and exhibit pass. (Single session serves as opening meeting for all conference tracks.)

INDIVIDUAL FEES:

REGULAR RATE - \$895 - AEE MEMBER/GOVERNMENT/NONPROFIT FEE - \$795
SINGLE-DAY FEE: Specify March 30 or March 31 - \$450

GROUP DISCOUNTS (Applies to preregistration only)

COMPANY PLAN (3 or more delegates):
GREEN STAR LEADER (25 delegates) - \$10,000
BLUE STAR LEADER (15 delegates) - \$7,500
RED STAR LEADER (7 delegates) - \$5,000
WHITE STAR LEADER (3 delegates) - \$2,500

5 ■ Seminars Separate Fees / March 28-31

TWO-DAY SEMINAR: March 28-29, 2011

Fundamentals of Sustainable Development and Carbon Reduction*
AEE MEMBER/GOVERNMENT/NONPROFIT FEE - \$1150
REGULAR FEE - \$1250

THREE-DAY SEMINARS: March 28-30, 2011

Fundamentals of Building Energy Simulation* / 9:00 am - 5:00 pm
 Fundamentals of Buying & Selling Energy* / 9:00 am - 5:00 pm
 Fundamentals of Using RETScreen* Tools for Energy Project Analysis** / 9:00 am - 5:00 pm
AEE MEMBER/GOVERNMENT/NONPROFIT FEE - \$1250
REGULAR FEE - \$1350

THREE-DAY SEMINARS: March 28-30, 2011

Fundamentals of Energy Auditing* / 9:00 am - 5:00 pm
 Fundamentals of Residential Energy Auditing* / 9:00 am - 5:00 pm
AEE MEMBER/GOVERNMENT/NONPROFIT FEE - \$1350
REGULAR FEE - \$1450

THREE-DAY SEMINARS: March 29-31, 2011

Fundamentals of Measurement and Verification for Energy Managers & Emission Traders: Applying the IPMVP** / 9:00 am - 5:00 pm
AEE MEMBER/GOVERNMENT/NONPROFIT FEE - \$1250
REGULAR FEE - \$1350

THREE-DAY SEMINARS: March 29-31, 2011

Fundamentals of High Performance Building Design and Engineering* / 9:00 am - 5:00 pm
 Fundamentals of Renewable Energy: Technologies, Applications, Strategies* / 9:00 am - 5:00 pm
AEE MEMBER/GOVERNMENT/NONPROFIT FEE - \$1350
REGULAR FEE - \$1450

*Note that registering for this seminar does not automatically register you for the exam. An additional fee of \$300 is required for the certification application and exam. Please contact AEE's Certification Administrator at (770) 447-5083, Ext. 223, or you may register on-line at aeecenter.org/certification.

**Note that registering for this seminar does not automatically register you for the exam. An additional fee of \$400 is required for the certification application and exam. Please contact AEE's Certification Administrator at (770) 447-5083, Ext. 223, or you may register on-line at aeecenter.org/certification.

6 ■ Payment Information

Select method of payment:
 CHECK ENCLOSED (Payable in U.S. funds to Association of Energy Engineers)
 CHARGE TO MY CREDIT CARD (for advance registrations only)

American Express VISA MasterCard

CARD NO. _____

Expiration Date _____ Signature _____

TOTAL CONFERENCE & SEMINAR REGISTRATION FEES \$ _____

DISCOUNT (IF APPLICABLE) -\$ _____

MEMBERSHIP FEES (OPTIONAL) \$ _____

TOTAL ENCLOSED \$ _____

Do you require special accommodations for a disability to enable you to attend this meeting? Call the Association of Energy Engineers at (770) 447-5083, Extension 210 with your request.