2016 OPERATIONS REPORT

The Association of Energy Engineers

INCLUDED IN THIS REPORT

- AEE Mission
- Corporate Members
- Chapters
- Councils
- Divisions
- Certification
- Job Referrals
- Publications
- Strategic Alliances
- Certification Recognitions
- Continuing Education
- Website
- Scholarships
- Awards
- Energy Managers Hall of Fame
- Conferences & Expos
- International Programs
- Financial Audit

MISSION

The Association of Energy Engineers (AEE) wants to promote the scientific and educational interests of those engaged in the energy industry and to foster action for Sustainable Development.

AEE celebrated its 39th year with over 18,000 members in over 100 countries and over 100 chapters around the world.

CORPORATE MEMBERS

AEE's roster of corporate members includes an elite group of commercial, industrial, institutional, governmental, energy services, and utility sectors.

LIFE CORPORATE MEMBERS

Amec
Ameren Corp
Dallas/Fort Worth International Airport Board
Duke Energy
General Motors
Goodyear
IISWBM
Johnson Controls, Inc.
Johnson & Johnson
Kuwait Institute for Scientific Research
Leidos
Merck & Company
Online Energy Manager
Pacific Control System
Public Service Electric & Gas Co.
Quality Attributes Software, Inc.
Rooms To Go
Seven-Utility Management Consultants, Ltd.
Southern California Edison
Southern Company
State of Missouri
Supermarket Environment Services Co.
Tennessee Valley Authority
Water Furnace International

CORPORATE MEMBERS

3M
360 Energy Group
ACORE
AEP Energy
AEP Ohio
Aerotek
AKF Group, LLC
Akron Energy Systems
Albireo Energy
Alliance to Save Energy
Ally Energy Solutions
American Hydrogen Association
American Municipal Power, Inc.
Aramark
Architect of the Capitol
Arthur Lok Jack Graduate School of Business
Association of Energy Services Professionals (AESP)
AT&T
BC Hydro
Bee
Benchmark Group, Inc.
Boeing Company
Bright Power

Cadmus Group, Inc.
Caesars Entertainment Corporation
Calibre
CBRE
CBRE | ESI
Cenergistic
CES Engineering Ltd.
CLEAResult Consulting
ComEd, an Exelon Company
ConEdison Solutions
Consejo Colombiano de Eficiencia Energetica
Constellation Energy
Continental Automated Buildings Association (CABA)
Corning Incorporated
Danfoss LLC
Delaware Technical Community College
Delta Controls
DNV GL
EcoCosm, Inc.
Ecosystem Energy Services USA, Inc.
Ecova
Electrical & Mechanical Services Dept.
Emissions Consult LLC
Enbridge Gas Distribution
enerG Magazine
Energy Alliances, Inc.
Energy Dynamics Ltd.
Energy Systems Group
EnergyCAP, Inc.
ENGIE Resources
Engineered Systems & Energy Solutions, Inc.
Ensight Pty Ltd
FPL - Florida Power & Light
Fulcrum Group
Gardiner
GDS Associates, Inc.
General Mills
GHT Limited
GSA
Harmonics Limited by Jefferson Electric, Inc.
Hartford Steam Boiler Inspection and Insurance Company
Honeywell International Inc.
IBM Corporation
International District Energy Association
Jones Lang LaSalle
JR Simplot Co.
Kaiser Permanente National Facilities Services
Knoxville Utilities Board
Lutron Electronics
Lyles Mechanical Co.
M.C. Dean, Inc.
M.E. Group, Inc.
McKinstry
Melink Corporation
Midwest Illumination
Millipore Sigma
MKK Consulting Engineers
Munters Corporation
NALMCO
National Energy Consultants Egypt (NECE)
Navitas, LLC
Nexmatix LLC
NORESCO
Northern Energy Services
ONICON Incorporated
Onicx Energy, LLC
Parsons
Penn Power Group, PPS, NES, WES
PNC Bank
Power Engineers, Inc
Precision-Paragon Lighting (P2)
Refrigeration Service Engineers Society
Reynolds, Smith & Hills
Robert Bosch LLC
Rocky Mountain Institute
Sain Engineering Associates, Inc.
Salas O'Brien Engineers Inc.
Salt Lake Community College
Secovi
SEEL, LLC
Shanghai Society of Energy Research
Spirax Sarco Inc.
Sustainable Energy Fund
Target Energy
TetraTech
Texas A&M University – Utilities & Energy Services
THG Energy Solutions
TLV Corporation
Toyota
Tozour Energy Systems, Inc.
Triacta Power Technologies

United States Energy Association
U.S. Environmental Protection Agency
U.S. Green Building Council
Utility Management Services, Inc.
Vermont Energy Investment Corporation
WB Engineers/Consultants PLLC
Yardi

CHAPTERS

AEE maintains strong chapters around the world to help members network in their area.

- AEE provides an annual appropriation to chapters based on meeting attendance of national AEE members.
- Awards programs to recognize outstanding performance of members on local, regional and national/international levels.
- Scholarship program to assist students in chapter area.
- Recognition of chapter and individuals in the chapter section of ***Energy Insight*** newsletter.
- Chapter Presidents' Leadership Workshop held during AEE's annual Congress provides a forum and assistance to chapter officers throughout the world.
- Chapter Recognition Awards are presented annually for outstanding chapter performance in several categories.

COUNCILS

Councils provide a forum for the exchange of information in specialized areas.

Energy Management Professionals Council (EMPC)
The primary purpose of this council is to administer the "Energy Managers' Hall of Fame," an award which gives recognition to an individual for his or her lifetime achievement in energy.

DIVISIONS

AEE divisions offer another opportunity to meet the growing needs of professionals in the specialized areas of business, industry, and government.

Council on Women in Energy & Environmental Leadership (CWEEL) AEE is pleased to announce our newest division, CWEEL, for professional women representing all segments of the energy and environmental fields. The Council on Women in Energy & Environmental Leadership (CWEEL) provides a network for

women in the energy and environmental industries that can assist in supporting career development for professional women, mentor young and aspiring women to pursue technical education and careers in the energy and environmental fields, and establish CWEEL as a forum for women to promote policy in the energy industry. CWEEL has 205 members.

Alternative and Renewable Energy Development Institute (AREDI) addresses state-of-the-art technological advances in solar, wind, biomass, and other green/renewable/alternative energy sources. Members will receive a subscription to the electronic ***AREDI Newsletter***, in addition to the roster of publications that all AEE members receive. To recognize outstanding accomplishments in the renewable energy industry, this division of AEE sponsors the Renewable Energy Project of the Year and the Renewable Energy Innovator of the Year awards. AREDI has 1002 members.

Energy Services Marketing Society (ESMS) formerly known as the Demand-Side Management Society (DSMS) meets the growing needs of professionals in the energy services, demand-side management, and power marketing industry. ESMS members receive the online newsletter ***Energy Services Marketing News*** in addition to the roster of publications that AEE members receive. ESMS membership totals 857.

Environmental Engineers & Managers Institute (EEMI) division focuses on issues such as indoor air quality, energy policy and the greenhouse effect, hazardous material, and water pollution. EEMI publishes the online newsletter Environmental News. The division also sponsors AEE's environmental conferences and shows. EEMI membership totals 832.

Cogeneration & Distributed Generation Institute (CI) is composed of professionals representing all segments of the cogeneration and competitive power industry. Interest areas include combined heating & power, distributed generation and power industry deregulation. Division members receive all AEE regular-member publications plus the ***Cogeneration & Distributed Generation Journal*** and ***Cogeneration and On-site Power Production Magazine***. CI has 959 members.

The Facility Managers Institute (FMI) division of AEE is dedicated to providing its members industry information, conference and seminar programs, reference books, and marketplace surveys to enhance their knowledge base and job effectiveness. As a member of FMI you will receive an online subscription of ***Facility Management News***. FMI membership totals 950.

The Energy Managers Society (EMS) is the newest division of the Association of Energy Engineers. It recognizes non-engineers and engineers for their participation in the energy management industry. The EMS will help members reach further, by growing their knowledge and network, and by connecting with like-minded individuals throughout the energy management profession. AEE Members who join EMS will receive all the benefits of AEE and the Energy Managers Society. EMS membership totals 349.

CERTIFICATION

Since 1981 AEE has certified more than 30,000 professionals, enabling them to receive special recognition for their expertise in a variety of specialized areas of the energy industry. AEE's certification programs are recognized by such government agencies as the U.S. Department of Energy and the U.S. Agency for International Development; as well as by corporations, utilities and energy service companies. When you earn your certification credential, you are distinguishing yourself among colleagues in your field, and demonstrating high levels of experience, competence and specialized knowledge.

Benefits of Professional Certification

- **When an individual becomes certified in a designated field, his/her professional achievement is recognized in the eyes of colleagues, as well as prospective employers and clients.**
- **Certification establishes a standard of professional competence which is recognized throughout the industry.**
- **Certification fosters professional development through encouragement of long-term career goals.**
- **Certification promotes quality through continuing education to assure a high level of competence in constantly changing fields.**

All AEE certification programs require the meeting of specific educational and/or experience criteria, as well as the passing of a written examination.

The Certified Energy Manager (CEM®) program is broad-based and emphasizes the technical aspects of what energy managers in government and the private sector need to know. This program, inaugurated in 1981, now includes 15,777 active certified professionals and represents the "Who's Who in Energy Management." AEE's CEM® program now meets ANSI/ISO Standard 17024 as a certifying body. The US Department of Commerce recognizes the CEM® program. The US Agency for International Development (USAID) sponsored this program for development in Hungary, Romania, Bulgaria and Egypt. AEE has formed strategic partnerships with in-country companies to implement CEM training in Canada, China, Hong Kong, Ireland, Mexico and South Africa.

The Certified Building Commissioning Professional® (CBCP®) program was developed with the dual purpose of recognizing the most highly qualified professionals in this rapidly expanding area within the industry, while raising overall professional standards in the building commissioning field. The total number of professionals certified in this program currently is 1271.

The Certified Business Energy Professional (BEP) program awards special recognition to those business/marketing and energy professionals who have demonstrated a high level of competence and ethical fitness for business/marketing and energy management related disciplines, as well as laws governing and affecting energy professionals. Currently, there are 724 active certified professionals.

The Energy Manager in Training (EMIT) designation is for the many talented energy professionals out there that can demonstrate technical strengths by passing the CEM® test but do not have the necessary experience in the field of energy management. There are currently 1150 individuals certified as EMITs.

The Certified Measurement & Verification Professional (CMVP®) program was established by AEE in cooperation with the International Performance & Verification Protocols. Inc. with the dual purpose of recognizing the most qualified professionals in this growing area of the energy industry, as well as raising professional standards within the measurement and verification field. The current number of professionals certified in this program is 3696.

The Certified GeoExchange Designer (CGD®) This program is designed to recognize professionals who have demonstrated high levels of experience, competence, proficiency, and ethical fitness in applying the principles and practices of geothermal heat pump design and related disciplines. The CGD® certification is granted by AEE and sponsored by the Geothermal Heat Pump Consortium® (GHPC). The current number of professionals certified in this program is 221.

The Distributed Generation Certified Professional (DGCP) (formerly known as the Certified Cogeneration Professional (CCP®) certification will grandfather all CCP® professionals. The program is designed to meet the growing needs of businesses to identify qualified indoor air quality practitioners who are equipped to solve problems created by "sick building," as well as facility managers who are responsible for operating healthy buildings while maintaining comfort and reducing energy costs. Currently there are 166 certified professionals.

The Certified Indoor Air Quality Professional (CIAQ™) program is being expanded to include new requirements for the IAQ professional including toxic mold and bioterrorism. Currently

there are 182 certified professionals.

The Certified Energy Procurement Professional (CEP®) was created in order to help raise the level of those practicing power purchasing and those selling electricity and gas. The objectives of the CEP® program are to raise professional standards, improve the practice and quality, and to identify and award those engages in purchasing, selling, and marketing electricity and natural gas. This program has 597 certified professionals.

The Certified Lighting Efficiency Professional (CLEP®) program was developed to identify specialists in the lighting industry. This program is recognized at meeting the certification requirement of the EPA Green Lights' Lighting Management Company Ally Program and now numbers 362 professionals.

The purpose of the Certified Power Quality Professional (CPQ®) is to raise the professional standards of those engaged in power-quality consulting. This program has been developed to meet the growing needs of utilities and end users required to apply the latest in power-conditioning technologies. This program has 249 certified professionals.

The Green Building Engineer (GBE) program awards special recognition to those green building, design and construction engineering professionals who have demonstrated a high level of competence and ethical fitness for green building related disciplines, as well as laws governing and affecting green building professionals. To date, AEE has certified 625 professionals as Green Building Engineers.

The Certified Sustainable Development Professional (CSDP) program is designed to provide recognition for professionals who have distinguished themselves as leaders in the sustainable development field. The designation CSDP identifies individuals who have demonstrated high levels of technical expertise in energy management and environmental practices. The CSDP currently has 561 certified professionals.

In 2006, the Certified Energy Auditor (CEA) and Certified Energy Auditor in Training (CEAIT) certifications were developed and added to the impressive portfolio of certifications offered by the Association of Energy Engineers. Rising energy costs and inefficiency in plants and buildings is continually driving the need for trained and experienced energy auditors. The CEA certification is one that identifies professionals as having the required knowledge and experience needed to succeed in the growing field of energy auditing. Currently, there are 2329 certified professionals.

In 2008, the **Certified Carbon Reduction Manager (CRM)** certification was developed and added to the impressive portfolio of certifications offered by the Association of Energy Engineers. Just as the internet changed the way we live and work, making your business as "carbon neutral" as possible is becoming a pre-requisite to succeed in our "green-minded" economy, where consumers are asking about the "carbon footprint" of companies… even products. The CRM certification is one that identifies professionals as having the required knowledge and experience needed to succeed in the growing field of carbon reduction. Currently, there are 168 certified professionals.

The **Certified Renewable Energy Professional (REP)** certification introduced by AEE in 2010 is designed to recognize the expertise and experience of professionals involved in the specification and application of renewable and alternative energy technologies, assessment of renewable energy projects, and development of achievable low-carbon and sustainability goals for organizations. Currently, there are 258 certified professionals.

AEE's **Existing Building Commissioning Professional (EPCP)** certification provides recognition for qualified professionals with expertise in the area of retrofitting existing buildings into more sustainable efficient facilities while meeting existing building commissioning criteria. Currently, there are 308 certified professionals.

AEE's **Building Energy Simulation Analyst (BESA)** certification is designed to recognize individuals with special expertise and experience in the area of utilizing building energy simulation software to assess a facility's energy performance. Currently, there are 47 certified professionals.

Rising energy costs and inefficiencies in homes and residential structures are increasingly driving the need for qualified energy auditors. In response to this demand, AEE now offers the **Certified Residential Energy Auditor (REA)** certification program, which recognizes professionals with energy auditing expertise and experience specific to assessing residential energy use. Currently, there are 181 certified professionals.

Established in 2013, the EEP program is designed to help educate and qualify new or recent entrants into the energy management field on best practices for improving energy efficiency. By obtaining the EEP Certification, candidates will gain industry and peer recognition by demonstrating their understanding of technical and operational energy management principles. Currently, there are 134 certified professionals.

AEE's Certified Demand Side Manager (CDSM) program awards special recognition to those professionals who have demonstrated a high level of competence and ethical fitness for demand-side disciplines. This program is highly utilized by those working in the utility industry. Currently there are 1276 certified professionals.

New for 2015, the Certified Water Efficiency Professional (CWEP) program is designed to help educate and qualify individuals in the water/energy management field on best practices for improving water efficiency. By obtaining the CWEP Certification, candidates will gain industry and peer recognition by demonstrating their understanding of technical and operational water management principles. To date, there are 131 certified professionals

The objectives of the PCF training and certification are to raise the professional standards of those engaged in performance contracting and energy project funding and financing; to improve the practice of performance contracting and energy project funding and financing by encouraging professionals to partake in a continuing education program of professional development for performance contracting and energy project funding and financing professionals.; to identify persons with acceptable knowledge of the principles and practices of performance contracting and energy project funding and financing through completing the certification and fulfilling prescribed standards of performance and conduct; to award special recognition to those energy professionals who have demonstrated a high level of competence and ethical fitness in performance contracting and energy project funding and financing. Currently there are 35 certified professionals.

The Certified Industrial Energy Professional (CIEP) certification was developed and added to the broad portfolio of professional certifications offered by the Association of Energy Engineers. Rising energy costs and inefficiency in plants and industrial facilities is continually driving the need for trained and experienced industrial energy professionals. The CIEP certification is one that identifies professionals as having the required knowledge and experience needed to succeed in the growing field of industrial and manufacturing energy efficiency. Currently there are 5 certified professionals.

JOB REFERRALS

In order to take a more active role in providing members with increased job opportunities, AEE has established an online Job Center at www.energyvortex.com/careercenter.

PUBLICATIONS

All journals are now being distributed to members via online access and are no longer being printed. For those members who are also Cogen Institute / AREDI division members, the Distributed Generation & Alternative Energy Journal will also be accessed online. In addition to the latest journals, members will be able to view all back issues of Energy Engineering and Strategic Planning for Energy and the Environment from the year 2000. Features of the new system include keyword search and the ability to download articles to your iPad.

In 2013, the Association of Energy Engineers conducted a survey of its members. Survey respondents overwhelmingly endorsed the decision to go paperless.

Energy Engineering, Strategic Planning for Energy and the Environment, and Distributed Generation and Alternative Energy Journals are formatted for convenient online browsing in HTML or PDF format.

Powered by Taylor & Francis, the online journals offer convenient features, including keyword search, linked tables of contents, abstract previews and personalized options, such as new email alerts.

STRATEGIC ALLIANCES and TRAINING PARTNERSHIPS

AEE maintains a number of strategic alliances to leverage the strength of each organization. AEE is also currently working with a cross-section of accredited institutions, organizations and Universities to offer additional energy management, green, sustainable, renewable and energy training & educational programs:

The Association of Energy Engineers is now an approved training provider within the American Institute of Architects (AIA) Continuing Education Systems (CES) Registered Provider program. The AIA requires that its registered architect members earn 18 Learning Unit (LU) hours of continuing education credit annually (eight hours of which must be related to Health, Safety, and Welfare topics and four of those eight 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.

Pepco & Delmarva Power Commercial & Industrial Operations & Maintenance Training Initiative: The Association of Energy Engineers is pleased to announce that many of its professional seminars now qualify for partial reimbursement of seminar fees for pre-qualified professionals based on eligibility for the Pepco & Delmarva Power Commercial & Industrial Training Initiative.

About the Program: Financial incentives are available for training that will promote, either directly or indirectly, the enhanced energy performance of buildings. An applicant must describe his or her current position responsibilities and how the proposed training course is relevant to the employer, the applicant's current position, and/or career development with the employer. Only applicants who have the potential to influence a building's energy performance will be considered.

Incentives & Eligibility: Each approved applicant is eligible to receive a cash incentive up to a maximum of $1,000, or 80% of enrollment costs, whichever is less (additional costs such as travel, food, lodging, test fees, and materials will not be considered). To obtain incentives for participation and completion of a course, the applicant must complete and submit an application for pre-approval. If upon review of the application the applicant is approved to attend the course; the applicant will be notified by electronic/and or postal mail. Applicants must submit one application per course. The review process will be handled in a timely manner. The incentive payment is contingent upon completion of the coursework; therefore the applicant must provide documentation of attendance (certificate of completion or other similar documentation). Applicants must submit an application for each course they wish to take.

Click here for the Pepco Operations & Maintenance Training Incentive Application (PDF Format, application must be pre-approved by the program manager)

Click here for the Delmarva Operations & Maintenance Training Incentive Application (PDF Format, application must be pre-approved by the program manager)

Visit the following websites for more information about available incentives: cienergyefficiency.pepco.com/OMTraing.aspx | cienergyefficiency.delmarva.com/OMTraing.aspx

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 theRenewable 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. According to Albert Thumann, Executive Director of AEE, "We are pleased to work in cooperation with ACORE and its participating members to develop an in-depth technology and solutions seminar for the rapidly growing renewable energy marketplace. ACORE has a strong presence in Washington, DC and has brought together a growing list of leading corporate members. ACORE's involvement brings added critical insight into renewable energy policy developments, market trends, and technology innovations."
ACORE is a non-profit organization based in Washington, D.C. with members representing every aspect and sector of the renewable energy industries and their trade associations, including wind, solar, geothermal, biomass and biofuels, hydropower tidal/current energy and waste energy. The scope of ACORE's membership also spans financial institutions, government leaders, educators, end-users, professional service providers and allied non-profit groups. ACORE members receive a savings of $100 off the regular registration fee for the Fundamentals of Renewable Energy seminar when registering online. (To receive this savings, use Discount Code *acoremem* when checking out).

The Association of Energy Engineers and the University of Turabo in Puerto Rico have signed a Memorandum of Understanding wherein the University of Turabo is an Approved AEE Training Provider. The University of Turabo's Energy Management Training is an approved training course for the Certified Energy Manager (CEM) exam, meaning that it satisfies the CEM training prerequisites, and upon completion of this training, students are eligible to complete the Certified Energy Manager exam at a remote testing center and apply for CEM status, provided they meet the required eligibility criteria. For more information on the University of Turabo, go to www.ut.pr or contact Amaury Malave at ajmalave@suagm.edu.

AEE has teamed up with the University of Wisconsin-Madison Engineering Professional Development Department to offer the realtime online Fundamentals of Lighting Efficiency seminar which provides preparatory training for AEE's Certified Lighting Efficiency Professional (CLEP) certification candidates. Presented in a series of six two-hour time modules, this program is designed to provide comprehensive professional training in the design and application of energy-effective lighting systems, with emphasis on: evaluating lighting systems through effective audits; achieving energy-effective lighting systems with high regard to lighting quality and occupants; examining the latest lighting products for your applications; performing lighting calculations to obtain proper light levels; evaluating and implementing effective lighting control strategies; reviewing environmental impacts of lighting efficiency projects; calculating and documenting savings achieved through lighting improvements; assuring compliance with building energy codes; and implementing effective lighting maintenance practices.

AEE now partners the Green Building Engineer (GBE™) certification program with U.S. EPA ENERGY STAR Challenge. AEE's participation in the ENERGY STAR Challenge -– "Build a Better World 10% at a Time" -- is a natural extension of the Association's efforts to encourage and enable its members to reduce energy usage in buildings by 10% or more. AEE is committed to providing training and certification opportunities to help the profession meet this challenge. To find a professional engineer (P.E.) and/or GBE, please refer to EPA's online directory: http://www.energystar.gov/index.cfm?fuseaction=PE_DIRECTORY.

U.S. Green Building Council: The Association of Energy Engineers is a qualified training provider under the U.S. Green Building Council's Green Building Certification Institute (GBCI) mandatory Credential Maintenance Program (CMP) educational program, and its programs are featured in theGREENBUILD 365 course catalogue. Whether you are a design, construction or real estate professional, an educator or student, or a LEED AP, Greenbuild365's rich variety of educational offerings will inform your journey from novice to expert and beyond. Information on a broad range of green building topics is available in formats tailored to your knowledge level and preferred learning style, whether you're looking for in-person interaction, online courses you can take in the comfort of your own home, or do-it-yourself research through an extensive online media library.

AEE Certification programs are now being utilized globally. AEE is please to have the Canadian Institute for Energy Training (CIET) as an approved training provider to offer energy management training throughout Canada. CIET is working with AEE to deliver to attendees the Certified Energy Manager (CEM), Skills Update for Energy Managers and the Certified Measurement & Verification (CMVP) training programs. Since 1996, the Canadian Institute for Energy Training has established a community of certified professionals across the country now numbering in excess of 1,300. For a full listing of upcoming course offerings, please visit http://cietcanada.com.

FPL Energy Services (FPLES) has teamed-up with AEE to offer select FPLES customers the opportunity to attend various certification and training seminars on a scholarship basis. AEE Energy Seminars cover a wide range of subjects such as energy management, energy auditing, renewable energy, energy engineering, high performance facilities as well as energy efficiency, facilities management and energy procurement. FPL Energy Services, Inc. is a leading ESCO and full-service energy solutions provider. Utilizing industry-leading energy expertise, operational discipline and innovative technology, FPLES develops, design, and build comprehensive energy-related solutions for federal, state and local government and business customers.

The Institute of Industrial Engineers (IIE) has formed a joint venture agreement with AEE for the Fundamentals of Carbon Reduction live seminar program and the Fast Track CRM Training Program for Carbon Reduction Managers online seminar. IIE, a leading association in support of the industrial engineering professional, is an official co-sponsor of these programs and will be offering them to its broad, strategic membership base. IIE helps to elevate the image and prominence of industrial engineers (IE). By bestowing awards that recognize the achievements of prominent IEs, taking part in high-profile events such as National Engineers Week, and working on campaigns that put industrial engineering in the minds of the public, IIE raises the awareness of contributions made by industrial engineers.

The Western New England College School of Engineering recently signed a Memorandum of Understanding (MOU) with AEE whereby the College will develop an extensive Renewable & Alternative Energy System Design course, and offer the Certified Energy Manager (CEM®) Certification Exam to attendees. The Association of Energy Engineers is expanding the Certified Energy Manager program offerings as more States are adopting the CEM as a standard, and numerous corporations are making the CEM credential a job requirement. To register for this course please contact the provider directly:
Email: CMFENGRINC@aol.com / Springfield, Massachusetts www.wne.edu

Hawaii Energy is teaming up with AEE to offer various energy management, energy auditing and sustainable training programs to Hawaii, Honolulu and Maui counties. The training and certification programs help encumbent and new workers excel in their energy profession career paths. A variety of programs will be offered. Hawaii Energy is the energy conservation and efficiency program implemented with the mission to educate, encourage and incentivize electric utility customers in Hawaii, Honolulu and Maui counties to invest in conservation behaviors and efficiency measures to reduce Hawaii's dependence on imported fuels. The program plays an important role in helping the state achieve the Hawaii Clean Energy Initiative (HCEI) goal of reducing total electric energy usage by 4.3 billion kWh by 2030. For more information on Hawaii Energy, please see: www.hawaiienergy.com

The SLCC Energy Institute provides education and training in Energy Management, Solar Photovoltaic Systems, and the Energy Grid. The Energy Management program focuses on energy systems in the built environment and the identification of efficiency measures. Graduates earning the Energy Management AAS Degree are eligible to take AEE's Certified Energy Manager (CEM) exam.

Delaware Technical Community College offers associate degrees in Energy Management, Renewable Energy Solar and Building Automation Systems. Graduates of the Energy Management program will be able to describe and measure energy use in building systems with the goal of evaluating and recommending energy solutions that will result in greater efficiency, energy cost savings and lower environmental impact. Graduates earning an AAS degree in Energy Management are eligible to take AEE's Certified Energy Manager (CEM) exam.

CERTIFICATION RECOGNITIONS

The Investor Confidence Project recently launched the Project Developer Credential that designates a project developer is qualified to develop Investor Ready Energy Efficiency™ projects that comply with the ICP Energy Performance Protocols. Project developers must retain, either on staff or under contract, a licensed Professional Engineer or AEE Certified Energy Manager (CEM).

The U.S. Department of Energy announced that the Association of Energy Engineers® (AEE®) Certified Energy Manager® (CEM®) is the first certification program to be recognized under the Better Buildings Workforce Guidelines program. The Better Buildings Workforce Guidelines are a national framework from which organizations can develop high-quality and nationally recognized training and certification programs, helping to address consistency, quality, and scalability issues in the commercial energy efficiency workforce.

The Association of Energy Engineers (AEE) Certified Energy Manager® (CEM®) and Certified Energy Auditor (CEA®) certification programs are accredited by the American National Standards Institute (ANSI) based on the International Standard ANSI/ISO/IEC 17024. ANSI Standard 17024 is well-recognized within the industry as the highest standard in personnel certification accreditation.

The **UK Environment Agency** has approved the Certified Energy Manager International (CEMI) and Certified Energy Auditor International (CEAI) certifications, provided by the Association of Energy Engineers (AEE), as meeting the requirements of the UK Energy Savings Opportunity Scheme (ESOS) to implement Article 8 (4-6) of the EU Energy Efficiency Directive (2012/27/EU).

This Lead Assessor register recognizes professionals holding the CEMI or CEAI credential as having the required competencies to assist large organizations to reduce their energy spending and improve their impact on the environment in a practical and cost effective manner.

The **Irish** government has recognized the Certified Energy Manager International (CEMI) and Certified Energy Auditor International (CEAI) qualifications, provided by the Association of Energy Engineers, as meeting the industry qualification requirements of the Irish regulation SI426, to implement Article 8 (4-6) of the EU Energy Efficiency Directive (2012/27/EU).

Government transposition of the Article 8 (4-6) of the EU Energy Efficiency Directive (2012/27/EU). requiring large undertakings to have energy audits undertaken by competent persons, is contained in the Irish regulation SI426.

The agency of the Irish state tasked with implementation and oversight of this scheme is the Sustainable Energy Authority of Ireland (SEAI) and they have recently opened their own register of competent persons qualified and approved to undertake these audits.

AEE is pleased to announce that the CEM, CEA and CMVP certifications are now requirements for the licensing of energy efficiency companies in the **Kingdom of Saudi Arabia** under the regulation of the Saudi Energy Efficiency Center (SEEC). Professionals who have earned the CEM, CEA or CMVP certifications will be crucial in performing energy audits and conducting energy efficiency projects. With the high standards held for AEE certified professionals, it can be assured that the future of energy efficiency in the Kingdom of Saudi Arabia is on a path for success. Please click here for additional information:

http://esco.seec.gov.sa/Home/Requirements

CONTINUING EDUCATION

AEE offers numerous continuing education programs across the country in which members receive a special discount. CEU/PDH Credits are granted to assist in the maintenance of certification through conference and seminar participation. In addition, members receive a 15% discount on energy books offered through AEE.

WEBSITE

In January 2010, AEE launched a new website. The address is still www.aeecenter.org, but we have updated our features. Members and certified professionals now have online access to their information, including membership information, certification applications and renewal dates, and can now update their contact information online.

SCHOLARSHIPS

Undergraduate scholarship assistance is provided through the Foundation of the Association of Energy Engineers, a nonprofit organization (501c3), established to promote further education of qualified students in energy engineering and energy management. To date the Foundation has awarded $832,250 in funds for use by more than 1,400 outstanding students.

AWARDS

AEE gives special recognition both to individuals and companies who have demonstrated notable contributions to the profession and exceptional service to the Association. This recognition is awarded on the local, regional, national and international levels. International Awards are given in ten major categories:

INTERNATIONAL AWARD CATEGORIES

1. **ENERGY ENGINEER OF THE YEAR**
Presented to an individual for outstanding accomplishments in promoting the practices, principles and procedures of energy engineering, and for superior service to the Association. The recipient must be a registered professional engineer (P.E.)*.
**Exceptions may be made to P.E. requirement for highly qualified engineers in countries without Professional Engineer licensing.*

2. **CORPORATE ENERGY MANAGEMENT**
Presented to a private sector corporation, agency, or organization for outstanding accomplishments in developing, organizing, managing and implementing its corporate energy management program, and for superior service to the Association.

3. **INSTITUTIONAL ENERGY MANAGEMENT**
Presented to a public sector institution, agency, or organization such as City, County, State, or Federal; a University or K-12 (kindergarten through 12th grade, either public or private), etc. for outstanding accomplishments in developing, organizing, managing and implementing its comprehensive energy management program, and for superior service to the Association.

4. **ENERGY PROFESSIONAL DEVELOPMENT**
Presented to an individual for outstanding accomplishments in training and development of energy engineers and managers, and for superior service to the Association.

5. **ENERGY MANAGER OF THE YEAR**
Presented to an individual for outstanding accomplishments in promoting the practices, principles of energy management and development, and for superior service to the Association. Usually awarded to a corporate director of energy or energy manager performing duties for an industrial firm, or building owner/manager.

6. **ENERGY PROJECT OF THE YEAR: NATIONAL**
Recognizes an innovative energy management project in the United States that has been in operation for at least six (6) months and can be substantiated with actual installation costs and operating savings.

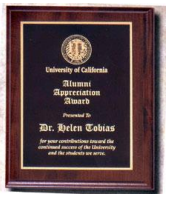
7. **ENERGY PROJECT OF THE YEAR: INTERNATIONAL**
Recognizes an energy management project developed and installed outside the U.S. The project is often recognized for its first-of-a-kind approach in the country where it has been installed. However, even more conventional projects with significant success (savings and/or visibility) are also encouraged. Because the awards are based on installed and successful projects, future plans and goals are not considered. The project must have been in operation for at least six (6) months and able to be substantiated with actual installation costs and operating savings.

8. **INNOVATIVE ENERGY PROJECT OF THE YEAR**
Recognizes an innovative energy project (includes renewables and green projects, and those making significant impact on climate change) that has been in operation for at least six months and can be substantiated with actual installation, operating costs and achievements. This is a broad category, and all projects are given fair consideration.

9. **ENERGY INNOVATOR OF THE YEAR**
Presented to an individual for outstanding achievement and innovation in promoting the adoption of renewable, green, or other innovative energy technologies.

10. **YOUNG ENERGY PROFESSIONAL OF THE YEAR**
Presented to an individual 35 years of age or younger on January 1, 2015, who has made outstanding contributions to the energy profession and to the candidate's community in any or all of these areas: educational and collegiate achievements; professional and technical society activities; civic and humanitarian activities, continuing competence; energy management achievements; climate change activities and achievements; and renewable energy activities and achievements.

ENERGY MANAGERS HALL OF FAME



The Energy Managers Hall of Fame recognizes individuals for their lifetime achievements in promoting both the practices and principles of energy management. Each person admitted to the Hall of Fame receives an award – usually presented at an AEE convention - signifying the individual's particular accomplishments.

AEE FELLOW

AEE was pleased to announce its new program, the Fellow, at the 35th Anniversary World Energy Engineering Congress in Atlanta, Georgia, October 2012. The Fellow Grade of Membership will be awarded to those AEE Members who have made a significant contribution to the energy management and alternative energy industry.

CONFERENCES & EXPOS

AEE conferences and expositions are held several times during the year. Each conference and show features the leading experts in the industry, as well as a multidimensional exposition. The World Energy Engineering Congress (WEEC ™), AEE's flagship event, was presented in Washington, DC for its 39th year. The WEEC ™ features 200 technical presentations and 400 exhibit booths. AEE has taken the best of past WEEC shows and expanded the program to create a brand new exciting program for its participants. In addition to WEEC, in selected locations the West Coast Energy Management Congress has been held for the past 34 years, and GLOBALCON has been held for the past 27 years.

INTERNATIONAL

Overview

Over the last year, there were 9 different AEE certifications presented in 40 countries offered in 12 languages, totaling more than 150 AEE certification courses presented outside the United States in 2016.

AEE has over 30 local training partners offering ongoing training and certification exams in Australia, Bangladesh, Canada, China, Dominican Republic, Egypt, France, Germany, Hong Kong, Hungary, India, Ireland, Italy, Jamaica, Jordan, Kazakhstan, Kenya, Kuwait, Mexico, Panama, Saudi Arabia, Singapore, South Africa, Spain, Taiwan, Trinidad and Tobago, the United Kingdom, Ukraine, United Arab Emirates, Zimbabwe.

Certification programs held outside the US in 2016 were the CEM, CEA, CBCP, CBCPF, CMVP, CAP, CRM, REP, CPQ, and CLEP.

News and Highlights

There are over 8,000 active AEE Certified Professionals outside of the US. There were close to 2,500 AEE certification exams taken outside the US in 2016.

The CLEP is now available in SI units for use outside the US. The following additional programs will be available outside of the US in 2017, BEP, CSDP, CWEP.

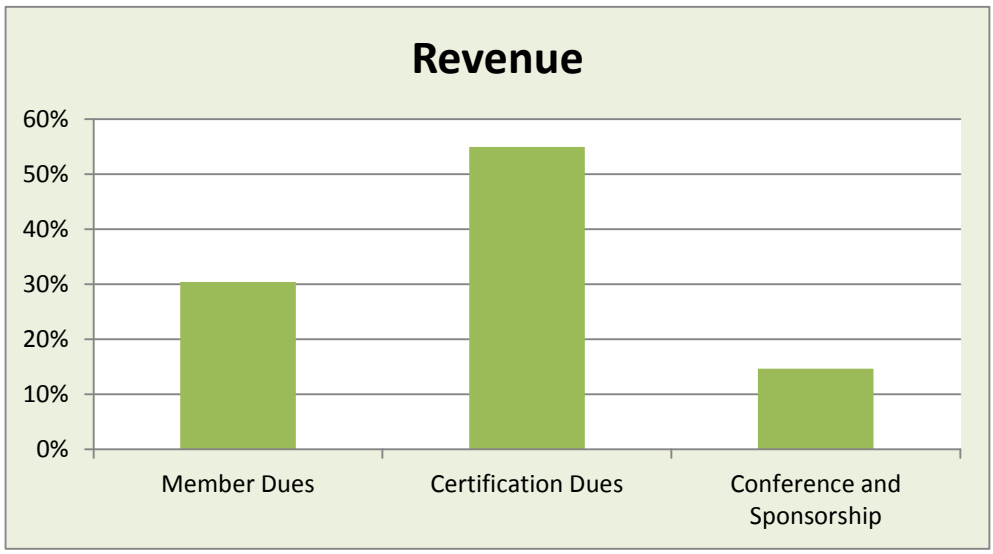
Several AEE programs are now accepted in many countries through local legislation and/or regulations:

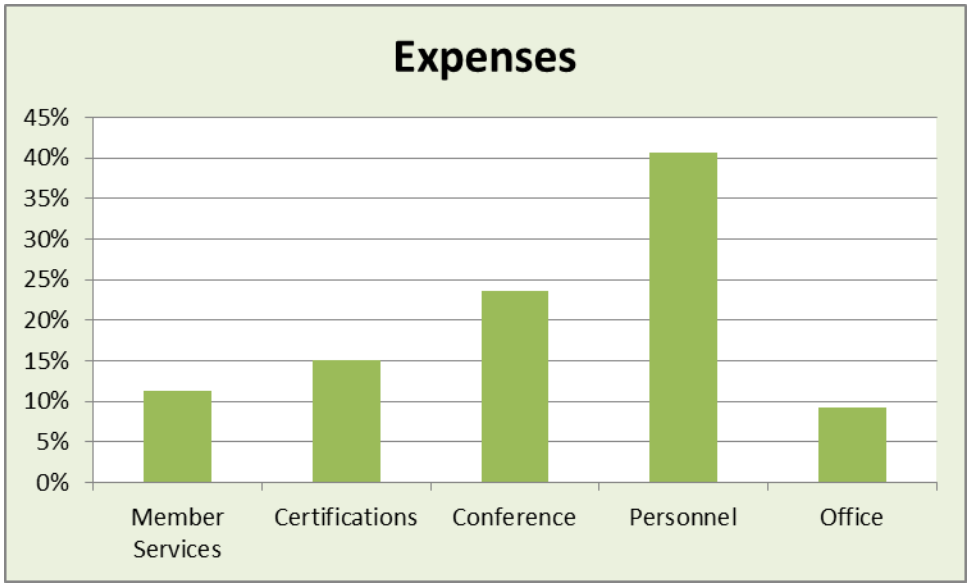
- Kenya (CEM)
- Ireland (CEM & CEA)
- Greece (CEM & CEA)
- Saudi Arabia (CEM, CEA, & CMVP)
- United Kingdom (CEM & CEA)
- United Arab Emirates (CEM, CEA, & CMVP)

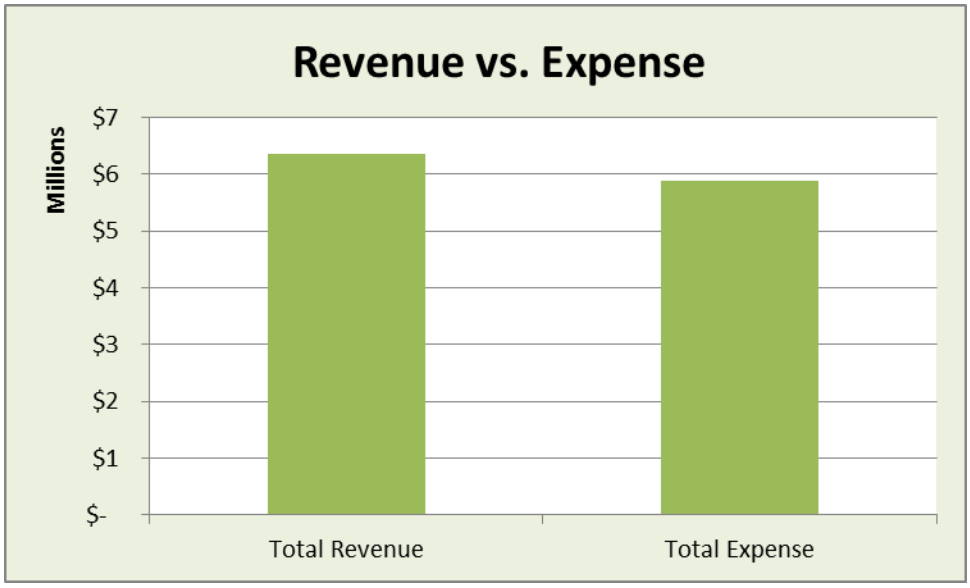
The AEE Jordan Chapter held 19 AEE certification courses in 2016. Since 2010, they have trained close to 900 professionals with close to 400 of those attending courses in 2016.

2015 FINANCIAL AUDIT

McKelvey & Russell, LLC, Certified Public Accountants, prepared the independent financial audit of AEE books for 2015. The results are summarized in the bar graphs below, from data supplied by AEE Treasurer, Paul Goodman. Total revenue was $6,369,975; expenses were $5,891,540.






Revenue vs. Expense
Millions
$7
$6
$5
$4
$3
$2
$1
$-
Total Revenue
Total Expense