

**ENERGY EFFICIENCY WORKING GROUP (EEWG)
CY 01 ANNUAL REPORT TO THE DIRECTORS
April 22, 2002**

Purpose

EEWG is a working committee of energy management professionals from various DOE/HQ, field, operations and support offices, national laboratories and M&O contractors throughout the DOE complex.

Our goal is to promote excellence in energy management through the active exchange of management and technical information, timely and effective communication, and facilitate the application of information and techniques.

A key vehicle we use to further this goal are periodic working meetings. We normally conduct working meetings twice a year lasting 1-2 days each. We encourage DOE/HQ and local DOE office attendance at each working meeting. We don't require EFCOG membership to attend our working meetings. Interested energy management professionals from other federal agencies and organizations are welcome to participate. There is no fee for working meeting participants. Working meetings are normally scheduled to coincide with other energy related conferences and technical seminars. This strategy leverages the limited travel budgets of members and participants.

Membership

Primary sponsor:

DOE's Federal Energy Management Program (FEMP)
Elizabeth Shearer, FEMP Director
Vic Petrolati, DOE's Energy Management Team Leader

Executive Sponsor: Don Pearman, Bechtel SAIC

EEWG Chair: Mike Holda, LBNL

EEWG Steering Committee:

James Hedin, WIPP
Wilson Reynolds, Energy Management Engineering
Carter Ward, Energy Information Systems
Vic Petrolati, DOE's Energy Management Team Leader
Ralph Wrons, Sandia National Labs
Tom Brand, DOE/OAK
Dale Sartor, LBNL
Ernie Fossum, INEEL
Blair Horst, LLNL
Otto Van Geet, NREL

Membership: Over 50 members and regular participants representing national laboratories, M&O contractors, energy management firms, DOE/HQ, field, operations and support offices.

Status

At the request of the member participants and with support from our DOE sponsor, over the past year there has been a shift in the primary focus of the working group from alternatively finance projects to issues associated with the development and implementation of sustainable and energy efficient design practices at DOE facilities.

Other FY01 initiatives included model program development in the following areas:

- Energy Star Labels in DOE Office Buildings
- Sustainable Design Initiatives at DOE sites
- DOE Building recommissioning efforts
- ESPCs in Excess facilities

These model programs provided a springboard for the introduction of best practices in energy management at DOE facilities. Presentations of the progress and results of these model programs at DOE sites will be included at the June 2002 EEWG meeting.

DOE continues to experience an accelerating loss of talented energy efficiency professionals at sites and operations offices due to lack of direct appropriations.

EEWG continues to support DOE/FEMP's other priorities including assisting DOE and other federal agencies in securing private sector financing to fund energy efficiency and infrastructure improvement projects at their facilities using innovative financing mechanisms.

Energy Savings Performance Contracting (ESPC) and Utility Energy Services Contracts (UESC) are contracting methods whereby a contractor or utility incurs the upfront cost of implementing energy cost savings and infrastructure improvement projects, in exchange for repayment through energy and related operations and maintenance cost savings resulting from implementation of the project.

These procurement vehicles provide a mechanism for sites to increase the energy efficiency of their facilities, improve infrastructure, while reducing their energy and related operations and maintenance costs.

EEWG is providing support to ESPC and UESC initiatives by utilizing the pool of the energy efficiency expertise that exists at the national laboratories to assist DOE and other federal agency sites to develop and implement projects utilizing these innovative procurement vehicles.

The following is a list DOE sites which have developed or are in the process of developing Energy Savings Performance Contracts and Utility Energy Services

Contracts that have benefited as a result of information and lessons learned shared through EEWG over the past year:

- Idaho National Engineering and Environmental Laboratory
- Argonne National Laboratory
- Pantex Plant
- Y-12 Plant
- Nevada Operations Office
- Fermi National Accelerator Laboratory
- Hanford
- Savannah River Site
- Oak Ridge National Laboratory
- National Energy Technology Laboratory

According to DOE, EEWG has been instrumental in accelerating the process, directly associated with the number of alternatively financed projects within the Department of Energy and a substantial portion of the savings associated with these efforts is directly attributable to EEWG.

Summary of other Energy Efficiency Working Group (EEWG) activities during CY2001:

Conducted an EEWG working meeting in conjunction with the DOE/FEMP sponsored Energy 2001 Exposition and Conference June 6, 2001 in Kansas City, MO. Agenda included an overview of the new National Energy Strategy, update on the western US energy Crisis, report on the New Presidential Directive, draft DOE Order 430.2, and Sustainable NREL. Over (40) forty attendees from DOE/HQ, field offices and laboratory sites participated in the discussions.

Due to the events of September 11, 2001, our EEWG meeting originally scheduled for early October in Washington, DC was postponed to January 10-11, 2002 and held in conjunction with the DOE and EPA Sponsored Laboratories of the 21st Century Conference. The agenda included Leadership in Energy and Environmental Design (LEED) Green Building rating system and it's application at DOE sites, a status update on DOE Order 430.2, the low energy, high efficiency "Berkeley Fume Hood" under development at LBNL, FEMP/HQ update, best practices roundtable on energy performance metrics, building recommissioning, group lighting relamping, and energy equipment inventory management, and a discussion on coordination of DOE/HQ program infrastructure budgets with DOE site energy managers.

Thirty one (31) attendees from DOE/HQ, field offices and laboratory sites participated in the discussions. The meeting summary is posted on the EFCOG/EEWG website.

Also during the past year we initiated some administrative improvements including updating the EEWG website and participant directory.

CY2002 plans:

Our next EEWG working meeting is scheduled for June 6, 2002 in conjunction with the DOE/FEMP sponsored Energy 2002 Exposition and Conference June 2-5, 2002 in Palm Springs, CA.

Tentative agenda items include discussions on the progress and results of DOE funded Model programs at DOE sites including:

- ESPCs in Excess Facilities
- Sustainable Building Design Initiatives
- Building Recommissioning
- Energy Star Labels at DOE Office Buildings
- Addition discussion topics include:
- PNNL's Energy Management Program
- Program Approach to UESCs
- DOE Order 430.2x status

We have invited representatives from the EFCOG Engineering Standards Working Group and the ISM Environmental sub-group to participate in the meeting. The intent is to exchange information, share common goals, and to take advantage of synergies between the working groups and their members.

Travel restrictions are expected to continue to impact participation in working meetings. We will attempt to video conference/tape future working meetings when practical.

In CY 2002 we will continue to assist DOE FEMP with marketing and implementation of alternative financing mechanisms for energy efficiency and infrastructure improvements projects at DOE sites.

EEWG will also continue to take a comprehensive customer focused approach responsive to FEMP's vision to assist DOE and federal agency sites increase energy efficiency, conserve water, promote renewable energy technology use and manage energy costs.

EEWG will continue to assist DOE's Federal Energy Management Program with timely and effective communication between sites, field and operations offices and HQ.

We will also continue to increase communication and participation of energy management professionals from other federal agencies and other appropriate EFCOG working groups at workshops to extend the pool of knowledge available to support DOE's energy management initiatives.

Recommendations

Recommend that the Energy Efficiency Working Group (EEWG) be continued. No subgroups are recommended to be formed at this time.