

**Meeting of
Association of State Energy Research and Technology Transfer
Institutions
February 23-25, 2000
Washington, DC**

The meeting was called to order by Kristine Growdon, ASERTTI Chair, Washington State University at 8:30 a.m. on Wednesday, February 23, 2000 with the following persons present:

Larry Ambs, Center for Energy Efficiency and Renewable Energy
Marcia Beck, LBNL - Environmental Energy Technologies Division
Sherry Benzmilller, Energy Center of Wisconsin
Thomas Buffa, United Illuminating
Marilyn Brown, Oak Ridge National Laboratory
Mike DeAngelis, California Energy Commission
Craig DeWitt, South Carolina Institute for Energy Studies
Ron Edelstein, Gas Research Institute
Philip Fairey, Florida Solar Energy Center
Kristine Growdon, Washington State University - Cooperative Extension
Energy Program
Renee Guild, Electric Power Research Institute
Mark Hanson, Energy Center of Wisconsin
Bill Haman, Iowa Energy Center
Jeff Harris, Lawrence Berkeley National Laboratory
George Kelly, National Institute of Standards and Technology
Charles King, Northeast Utilities
Ron Nesse, Pacific Northwest National Laboratory
Patricia Plympton, National Renewable Energy Laboratory
John Ruckes, Connecticut Office of Policy & Management
Ron Shelton, Oak Ridge National Laboratory
Bill Valentino, NYSERDA
Joe Visalli, NYSERDA
Gunnar Walmet, NYSERDA
Jack White, The Winslow Group

1. ASERTTI and other updates

Clearinghouse

Ann Bruner, Washington State University, presented the Clearinghouse program. This program is housed at Washington State University, Cooperative Energy Extension Program. The Clearinghouse services over seven toll-free hotlines (US DOE Motor Challenge/IOF, WAPA's Power line & Power plug, TEN Hotline, NEEA's Energy Ideas Clearinghouse, SEPA's Power Line and WSU Energy software). A 17-person call-team made up of engineers, research librarians, energy specialists, and communication information staff the hotlines. There are also resources outside of this team as a part of a network of additional resources.

Funding for the Clearinghouse program is diverse giving opportunity to leverage funds. The clearinghouse database is updated constantly, as problems are solved. The Clearinghouse does not do policy work.

WSU is willing to have others join their clearinghouse activities, which in turn would allow access to the solutions database.

ASERTTI Website

Washington State University maintains the ASERTTI website (www.asertti.org). Password onto the site is “energy”.

Industries of the Future

ASERTTI members can help broaden state participation in DOE’s Industries of the Future (IOF) programs, although some states may have a mismatch of industries with the IOF target areas. IOF programs may be of particular interest to Universities. DOE believes that universities are a better fit with the R&D element of the IOF programs than state energy offices. ASERTTI collaboration in this area is of importance as ASERTTI University members can help influence program directions.

Currently, Washington, New York and Wisconsin are participating in IOF programs. Wisconsin is working on metal casting project, including a Wisconsin Roadmap.

DOE’s NICE³ program has been problematic and rated poorly. A principal change has been made and DOE will be attempting to hire a private contractor to administer the program. NASEO is working with DOE to allow state organizations to participate in NICE³.

Electric Power Research Institute Collaboration

Renee Guild discussed the highlights of EPRI-CEC Public Benefit R&D collaboration. The highlights include:

- School-centered Community Networks
- Emissions Testing of Distributed Generators
 - Phase 1: Scoping study to establish test parameters, prepare a test plan and coordinate with appropriate state and local air pollution authorities.
 - Phase 2: Trial testing process
 - Phase 3: Deployment of a testing and certification program
- Oil Industry Projects
- Renewable Technology Projects
 - Biomass Cofiring
 - Advanced Thin-Film PV Cells
 - Renewable Technical Assessment Guide (TAG)

Wind Forecasting

- Demand Resources & Reliability (Proposed) is a seven step approach to ensuring demand-responsiveness
 - Design Market-based Roadmap
 - Inventory Resources
 - Assess Feasibility
 - Develop Action Plan
 - Research Product Concepts
 - Field Test Products
 - Implement Full-scale Launch

Empowerment 2000

Karen Anderson of the Alliance to Save Energy described an upcoming conference, *Empowerment 2000: Green Schools and Energy-Wise Students*, a joint effort with the Energy Center of Wisconsin. This conference is scheduled for June 2000 in Madison, Wisconsin. The intended audience is classroom educators, facility managers, state energy offices, and state departments of education and curriculum planners. The purpose is to explore ways to address school energy issues in curriculum and facilities in a coordinated manner.

The conference is still looking for financial sponsors, including sponsorship of conference participants. Contact Karen Anderson at the Alliance or Dan York at ECW for further information regarding sponsorship or participation.

2. MOU Activities

Updates

The MOU established with DOE is going forward. DOE has decided that the funds available will be distributed in larger amounts (fewer awards) rather than in small grants. There is a 25% minimum funding match required. The status of the priority areas is:

- Bio-Energy: Norm Olsen, Iowa Energy Center is lead in this area. Four states have committed \$20K each in co-funding. A difficulty is finding areas of interest that most states can use and benefit from.
- Fuel Cells and Micro-turbines: Richard Drake, NYSERDA is the lead. This area is currently in advanced stages of putting together projects. One project is a coordinated database and monitoring system. It is desirable to collect as much information regarding effectiveness of microturbines and have the data in one collection site.
- Petroleum: NASEO is the lead. At this point the petroleum efforts are nearly finished. There may be additional training events. This area applies only to oil supply.
- Schools: Sara Ward, NASEO/Ohio State is the overall lead with David Block, FSEC the ASERTTI lead. This area has recently had a lot of

activity in response to the anticipated DOE solicitation. WSU, Oregon and Idaho and others are planning a proposal regarding portable classrooms, as part of the ASERTTI response.

- Combined Heat & Power: CEC is lead in this area. A tentative budget is in place.
- EIA Data - No Report
- Transportation - This area includes testing of alternative fuels, research involving alternative fuel vehicles and microturbines.

DOE is issuing two RFP's in which ASERTTI will want to submit proposals. The lead organization in these areas will also take the lead in submission of a proposal on ASERTTI's behalf. Currently, the ASERTTI membership is best suited to concentrate on schools, biomass, CHP and fuel cells. Following the meeting an email will be sent to all members asking to provide an update on these areas of interest.

Joint Planning

There are ongoing joint planning activities. Floyd Barwig, Iowa Energy Center is serving as the ASERTTI lead in the joint planning process.

There is a meeting scheduled on March 30, 2000 in Washington DC to review the current status of the planning activities and how the process could be improved. At this time, the membership has an interest in adding to the priority areas to include buildings and industry. The planning process should have more collaborative projects.

ACTION ITEM:

- 1. Have leads of the priority areas report via email the status of their priority area, and**
- 2. Provide Floyd Barwig with individual organization plans in the priority research areas, for the March 30th meeting. Please get information to Floyd by early March.**

3. MOU Priority Areas Presentations and Discussions

Transportation

Jim Merrit updated the membership on OTT's current activities. DOE's Office of Transportation Technologies is currently working with major automobile manufacturers in producing energy efficient cars. OTT's mission is to support the development and use of advanced transportation vehicles and fuels that will reduce energy demand, particularly for petroleum, and reduction of greenhouse gases. For full details of OTT's programs visit www.ott.doe.gov.

OTT's budget for FY99 is \$239.9 million and \$305.3 million in FY01.

Distributed Generation

Joe Glago, DOE's Office of Power Technologies updated the membership on current activities. Interconnection with the grid is the number one barrier. A workshop was held in December of 1998 to address this issue. Recommended actions regarding interconnection are to: accelerate the standards process, document the problem, system integration modeling and testing, and certification of interface equipment. Additionally, provide outreach to state regulators and quantify the benefits of distributed power.

The scope of the Distributed Power program is to develop systems integration technology and establish a regulatory and institutional environment to support the rapid growth of sustainable distributed power and the realization of its full market potential and value. On March 18, 1999 the IEEE Standards Board approved the Project "Standard for Distributed Power Resource(s) Interconnection with Electric Power System(s)," designated P1547. (<http://grouper.ieee.org/groups/scc21/1547>).

Schools

Phillip Fairey, Florida Solar Energy Center informed the membership of the current status of the schools area work. There has been significant progress in this area. A preapplication document is due to DOE within the next 20 days on a joint proposal between the MOU participants. There are four potential project areas: student performance and daylighting; diagnostic/field testing; IAQ concerns; and portable classrooms and IAQ. This collaborative effort includes FSEC, WSU, Idaho, Oregon, PNNL, NYSERDA and ECW. David Terry, NASEO has information on other proposals that may be submitted under the MOU process. There is a 20% cost share requirement.

Marilyn Brown, Oak Ridge National Laboratory updated the membership on the field testing area. This project involves accelerated advanced technology in schools, with one or more National labs and schools involved. The schools involved are being renovated or are new construction sites. A five-step process will be used: lab research, field experience, analysis, identification of design tools, and design of a deployment enabling strategy. The most common barrier for participation is funding. ASE is working on legislation to assist states in funding the design of new structures.

NRDC is working on legislation for tax credit for energy efficient commercial buildings, with a provision to help schools. The proposal for tax credit could be expanded into other commercial buildings. The tax credit would be for the engineers and designers of the new schools.

Patricia Plympton, NREL informed the membership of Rebuild America Energy Smart schools. It is projected that 3000 schools will be built by 2008 and an additional 3000 by 2010. Rebuild America is setting guidelines for new

construction in five regional areas, including portable classrooms. The guidelines cover measurement of student performance and daylighting, large-scale field audits, IAQ concerns, portable classrooms, and advanced technologies. Rebuild America guidelines fit in well with the proposed projects that will be submitted to the DOE.

Kristi Growdon met recently with Mark Ginsberg, DAS, Office of Building Technologies. OBT is supportive of financing reform, retro-commissioning of and investigating modular portable classrooms rather than mobile classrooms.

The group agreed to develop collaboratively, the two page preapplication document for DOE in the schools area. Comments are due to FSEC by March 1, to be included in the conference call with partners on March 2.

Biomass

DOE's Industries of the Future (IOF) biomass program is a natural parallel to the activities of ASERTTI. ASERTTI activities should be incorporated into proposal submitted to DOE.

Current focus is on crop based chemicals. The crop base may leave out many states and the biomass area should include a waste based model. It is felt that ASERTTI should try to influence DOE to include crop, waste and residue based proposals in the biomass area. Bio-pulping would also be a natural fit in this area.

Distributed Generation

Currently there is no training for inspectors regarding fuel cells in small business or residences. An overall infrastructure will be needed to provide nation wide training and acceptance of fuel cells. Barriers to acceptance of fuel cells in small business and residences reside with the installers, building inspectors and utilities.

EIA Data

Jeff Pillion, Michigan SEO, updated the membership on the current status. An agenda was established in four areas: Educate states of the advantage of data through workshops; Increase of effectiveness and state use of the EIA website; Electricity Restructuring - organized data with restructuring at the state level; and Confidentiality - identify which areas of data are confidential.

4. Formalization of ASERTTI

The session focused on the proposed bylaws for the formalization of ASERTTI, previously distributed to the membership. Final bylaws are available upon request. (sbenzmiller@ecw.org)

ACTION: Bylaws are approved as revised. Any recommended changes by counsel will be made by the approval of the executive committee.

5. Election of Officers and formation of Executive Committee

Voting members present: John Ruckes, Connecticut Office of Policy & Management; Bill Haman, Iowa Energy Center; Mark Hanson, Energy Center of Wisconsin; Phillip Fairey, Florida Solar Energy Center; Mike DeAngelis, California Energy Commission; Gunnar Walmet, NYSERDA; and Kristine Growdon, Washington State University. Also present: Joe Visalli, NYSERDA and Sherry Benzmilller, Energy Center of Wisconsin (members at large); Ron Nesse, PNNL and Renee Guild, EPRI (Associate Members); and Charles King, Northeast Utilities (guest).

ACTION: The elections for ASERTTI officers are as follows:

Chair: Kristine Growdon, WSU. Nominated by Phillip Fairey, FSEC and second by Mike DeAngelis, CEC. Passed unanimously.

Vice-Chair: Mike DeAngelis, CEC. Nominated by Mark Hanson, ECW and second by Renee Guild, EPRI. Passed unanimously.

Treasurer: Mark Hanson, ECW. Nominated by Gunnar Walmet, NYSERDA and second by Phillip Fairey, FSEC. Passed unanimously.

Secretary: Gunnar Walmet. Nominated by Mark Hanson, ECW and second by Bill Haman, IEC. Passed Unanimously.

ACTION: The Executive Committee with guidance from counsel will file incorporation papers - 501(c)(3) not for profit corporation - on the behalf of ASERTTI.

6. Adjournment

The meeting was adjourned at 11:05 a.m. The fall ASERTTI Meeting will be held in mid-October. NYSERDA will serve as host.

Respectfully submitted by,

Sherry Benzmilller
Assistant to the ASERTTI Chair
Energy Center of Wisconsin