ALLIANCE TO SAVE ENERGY

Creating an Energy-Efficient World

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Executive Vice President and
Chief Technology Officer
Whirlpool Corporation

March 5, 2003

Jeff Hahn
U.S. Department of Energy
Golden Field Office
1617 Cole Blvd.
Golden, CO 80401

Dear Mr. Hahn:

Please accept the attached reports as the fulfillment of the technical reporting requirements for the project titled "Promoting Greater Federal Energy Productivity" (Agreement DE-FG01-98EE73647).

This project comprised several tasks for improving federal energy productivity.

- 1) Meetings and Workshops
- 2) Increasing Investments in Cost-effective Improvements in Federal Facilities
- 3) White Papers and Other Research
- 4) Enhancing Technical Assistance for Energy Intensive Facilities
- 5) Enhancing Industry Partnerships With FEMP

We have enclosed reports for each of these areas as discussed below.

1) Meetings and Workshops:

Metering Workshops— The Alliance conducted three very successful energy metering workshops for federal energy managers and contractors in Atlanta, Georgia. These sessions provided practical instruction on the verification of energy savings through metering, as well as successful case studies and cost-effective technologies. These were held on October 19, 1999, October 22, 2000, and October 23, 2001. Comments from all participants were very positive. See Attachment 1a, 1b, 1c.

Advanced Metering Workshop— The Alliance to Save Energy held a one-day workshop on advanced metering in federal facilities. The workshop on July 18th, 2002, provided the 45 attendees an overview of available metering technologies and metering-related communications systems. Using case studies and other information, metering industry experts provided an overview of advanced metering technologies and applications and discussed the costs and benefits of making metering improvements and upgrades, and their potential applications to federal facilities. See Attachment 2a, 2b.

Peer-to-Peer Workshop— The Alliance assisted with planning and execution of the January 22-24, 2001 pilot peer-to-peer, “*Energy Cross Talk 2001*” FEMP professional development training held in Orlando, Florida. It was co-sponsored by the U. S. Department of Energy and the General Services Administration in cooperation with the Alliance to Save Energy and Armstrong Service, Inc.

By invitation only, the 35 participants shared common problems and solutions to improving agency energy management and gaining agency support. See Attachment 3a.

A second peer-to-peer exchange, Energy Crosstalk 2002, occurred January 28-30, 2002 in Seattle, Washington. This event, planned and executed in conjunction with the Department of Energy, the Department of Defense, and the General Services Administration, drew 31 federal sector participants to build on the dialogue the previous year. See Attachment 3b.

Federal Energy Managers Steam Workshop— The Alliance, in conjunction with FEMP, DOE's Office of Industrial Technologies, and Washington Gas Energy Services, conducted a one-day federal energy manager steam workshop and training in Washington D.C. in April 2001. Over 100 attendees took advantage of energy management information presented on steam system efficiency, energy pricing strategies, and project implementation, as well as participating in some timely discussions of fuel price hedging and criteria for design-build practices. Managers from the U.S. DOE's Federal Energy Management Program and Best Practices Steam program introduced references and reviewed case studies and practices related to steam system optimization. See Attachments 4a, 4b.

2) Increasing Investments in Cost-effective Improvements in Federal Facilities

ESCO Report on ESPCs— During this time period, the Alliance researched the functioning of the Energy Savings Performance Contracting (ESPC) program from the point of view of the Energy Service Companies (ESCOs). There was concern within our Federal Energy Productivity (FEP) Task Force that investment in ESPCs had declined drastically in the last two years in several key government agencies. The Alliance compiled the ESCOs comments about the impediments to the smooth functioning of the performance contracting program and gave recommendations to get the program back on track. Draft results were presented to FEMP senior staff in November, 2002. The Alliance is currently gathering additional information and intends to release an expanded version of this research as a report including utility and agency input. See Attachment 5.

3) White Papers and Other Research

Document to New Administration — The Alliance's FEP Task Force produced an industry/nonprofit stakeholder document for the Department of Energy's transition team to consider on the effectiveness of the FEMP program. The report recommended five

initiatives to strengthen and enhance policies contained in Executive Order 13123 and the Energy Policy Act. In particular, the FEP Task Force document pointed out ways for the Bush Administration to increase agency accountability, increase funding for energy management projects, and deal with energy supply and pricing in deregulated utility markets. This document was delivered to the Bush/ Cheney transition team. See Attachment 6.

Funding Federal Energy Bank— The Alliance staff researched the creation of a revolving federal energy bank to be funded through a charge on consumption of electricity, steam and natural gas. The Alliance provided responses to technical questions about the functioning of this financial mechanism to legislative staff who wrote language for inclusion in the Senate energy bill.

4) Enhancing Technical Assistance for Energy Intensive Facilities

Bremerton Naval Station Audit— The Alliance assisted with the coordination and development of a study of the Bremerton Naval Station ship rebuilding facility. An industrial process audit was initiated in April 2000. Our efforts included scheduling a series of industrial process audits by FEMP contractors in 2001. A final meeting was conducted in July 2001 at which all the audit findings were presented to officials at Bremerton. Over \$1.5 million in potential savings opportunities were identified. Some of the low cost/no cost measures have been undertaken, and we expect that the majority of recommendations will be implemented over time. See Attachments 7a, 7b, 7c.

5) Enhancing Industry Partnerships With FEMP

FEP Task Force Meetings— The 35 member, private-sector Alliance Federal Energy Productivity (FEP) Task Force met six times during this period, on October 5, 1999, March 14, 2000, May 2, 2000, October 5, 2000, April 16, 2001, and February 7, 2002. See Attachments 8a, 8b, 8c, 8d, 8e, and 8f. These meetings covered a broad range of issues including financing, reporting of energy data by agencies, and non-energy benefits of energy efficiency measures. During this time period, there was a particular focus upon policy issues of Federal energy management, spurred by consideration of comprehensive Federal energy legislation.

Private sector views on alternative financing (including ESPC contracting), metering, and other issues were reported to DOE program staff on an on-going basis.

Electronic Newsletter to Federal Energy Managers— An email newsletter to Federal energy managers and other interested parties had nine issues in this reporting period. The newsletter provides updates about activities related to the federal energy management program, such as new policies, meetings, and workshops. Readership is expanding as

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more people subscribe and as more FEMP email lists become available. The most recent issue reached an audience of 212.

Issues were produced in January 2000, February-March 2000, April-June 2000, October 2000, January 2001, April 2001, May 2002, and November 2002. The frequency of the newsletter was reduced reflecting the reduced activity level with E.O.13123 during the change of Administration. See Attachments 9a, 9b, 9c, 9d, 9e, 9f, 9g, 9h, 9i. In addition, information concerning Federal energy management developments is included in the Alliance's bimonthly E-fficiency News, which has 18,000 subscribers.

Other items of interest were emailed to FEP Task Force members and other interested parties several times during the reporting period. In addition, the website was updated with FEMP news when appropriate. See Attachment 10.

Financial Status Report

Also enclosed is a Financial Status Report (SF269) for this project.

We hope that these reports satisfy your requirements. We appreciate the opportunity to support the Federal Government in its efforts to improve federal energy productivity. If you have questions regarding the Financial Status Report, please contact Kathy Hulan at 202-530-2226 or Renee Fortune at 202-530-2251. If you have any questions regarding the substance of the Alliance's work on this project, please contact me at 202-530-2209.

Best regards,

A large, stylized handwritten signature in black ink, appearing to read 'Mark Hopkins', is written over the typed name and title.

Mark Hopkins
Vice President

Attachments

Attachment 1: Metering Workshops

Attachment 2: Advanced Metering Workshop

Attachment 3: Peer to Peer Workshops

Attachment 4: Federal Energy Managers Steam Workshop

Attachment 5: ESCO views of ESPCs

Attachment 6: Document to New Administration

Attachment 7: Bremerton Naval Station Audit

Attachment 8: FEP Task Force Meetings

Attachment 9: Electronic Newsletter to Federal Energy
Managers

Attachment 10: Alliance FEP Website

Attachment 11: Financial Status Report

Attachment 1:

Metering Workshops

FEMP Energy Metering Workshop

Tuesday, October 19, 1999

First Name	Last Name	Organization	Phone	Email
Joan	Lydon	OCES/CEOE	719-333-4540	joan.lydon@usafa.af.mil
Beverly	Dyer	EPA Energy Star	202-564-9721	dyer.beverly@epa.gov
Foster	Awuku	Public Works, Dept. of Army	253-966-1796	awukuf@lewis.army.mil
Satish	Sharma	HQDA/ OACSIM	703-428-7001	satish.sharma@HQDA.army.mil
M. K.	Baldwin	Office of the Secretary of Defense	703-697-6195	baldwimk@acq.osd.mil
James	E. Devir	General Services Administration	617-565-7902	james.devir@gsa.gov
Craig	Highsmith	Moody AFB	912-257-4750	craig.highsmith@moody.af.mil
John	F. Munro	Oak Ridge National Laboratory	202-479-0009	munrojf@ornl.gov
Roman	Piaskoski	General Services Administration	617-565-4693	roman.piaskoski@gsa.gov
Mischa	Sailors	US Army	256-235-4888	sailorsm@anad.army.mil
Dennis	Jones	USDA.ARS.MWA.NADC	515-663-7217	lmiller@nadc.ars.usda.gov
Robert	Grieves	US Naval Activities UK (NAVACTUK)	0044 1895 616268	grieves@cnauk.navy.mil
Patrick	J. Hughes	Oak Ridge National Laboratory	423-574-9337	pj1@ornl.gov
John	A. Shonder	Oak Ridge National Laboratory	423-574-2015	shonderja@ornl.gov
Camelia	Ilarslan	Lawrence Berkley National Laboratory	212-854-6594	ci5@columbia.edu
Warren	Thomas	Oak Ridge National Laboratory	423-576-6309	thomaswk@ornl.gov
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Patrick	Kelly	NASA	228-688-7226	patrick.kelly@ssc.nasa.gov
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Duncan	Morrison	Combined Energies	207-621-4617	duncan.morrison@combinedenergies.com
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Barrett	Flake	Air Force Institute of Technology	937-255-5654 ext. 3544	barrett.flake@afit.af.mil
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Glenn	Stubblefield, Jr.	U.S. Army Signal Center & Fort Gordon	706-791-6184	stubbleg@emh.gordon.army.mil
P.	Consiglio	New Energy	213-996-6197	pconsiglio@newenergy.com
Erica	Atkin	DOE/ORNL	423-576-2026	atkine@ornl.gov
David	Wolfe	WSRC/SRS	228-688-1045	david02.wolfe@srs.gov
Vanessa	Ennis	University of Alabama in Huntsville	256-890-6707 ext. 236	ennisv@email.uah.edu

Stephen	Grumbach	USAF	205-979-9966	Stephen.grumbach@afit.af.mil
Barbara	Veres	USDA/APHIS	301-734-4703	Barbara.L.Verres@usda.gov
Jim	Huk	NASA	228-688-1045	James.huk@ssc.nasa.gov
Angela	Carroll	DOE	423-576-0999	carrollap@oro.doe.gov
Presenters:				
David	Waldrop	DOE Atlanta Regional Support Office	404-347-3483	david.waldrop@hq.doe.gov
Doug	Culbreth	DOE Atlanta Regional Support Office in NC	919-782-5238	carson.culbreth@hq.doe.gov
Dan	Turner	Energy Systems Lab - Texas A&M	409-862-8480	dturner@esl.tamu.edu
Patrick	Hughes	ORNL - Building Technologies	423-574-9337	hughespj1@ornl.gov
Paul	Stack	Johnson Controls, Inc.	414-274-4390	paul.d.stack@jci.com
Mark	Wagner	Johnson Controls, Inc.	404-393-3224	mark.f.wagner@jci.com
Bob	Kennedy	Sempra Energy Service	518-783-8300	bkennedy@alb.sempra- esco.com
Tom	Kennedy	Florida Power	727-519-2416	thomas.kennedy@FPC.com
Don	Millstein	E-Mon Corporation	800-334-3666	dmillstn@emon.com
Darwin	Simmons	General Services Administration	404-331-5405	darwin.simmons@gsa.gov
Steven	Kromer	LBNL	510-486-6619	steve@kromer.com
Malcolm	Verdict	Alliance to Save Energy	202-530-2213	mverdict@ase.org
Registrants				
	That did not attend			
David	Ha	National Park Service	402-221-3933	david_ha@nps.gov
Sharon	Holcombe	UDSA/Office of Procurement and Property Management	202-720-3820	Sharon.Holcombe@usda.gov

FEMP Energy Metering Workshop

Tuesday, October 19, 1999

8:30 - 9:00	Welcome, Introductions, and Meeting Overview Doug Culbreth, <i>SE DOE RO</i> Malcolm Verdict, <i>Alliance to Save Energy</i>
9:00 - 9:30	Energy Metering Tutorial Overview of utility billing, O&M, project identification & performance Dan Turner, <i>Texas A&M Energy Services</i>
9:30 - 10:15	Metering Terminology & Technology Don Millstein, <i>E-mon Corporation</i>
10:15 - 10:30	BREAK
10:30 - 11:30	Overview of DOE's IPMVP protocols
11:30 - Noon	How ESCO's Approach Energy Data Bob Kennedy, <i>CES/Way</i>
Noon - 1:00	LUNCH
1:00 - 1:20	How Utility ESCO's Approach Energy Data

1:20 - 1:40 How Federal Agencies Collect & Use Energy Data

1:40 - 2:15 Federal Agency Requirements for M&V
Doug Culbreth

2:15 - 3:45 Successful Case Histories of M&V
Dan Turner
Steve Kohmer
Don Millstein, *E-Mon Corporation*

3:45 - 4:00 BREAK

4:00 - 4:15 Executive Order 13123 and Metering Requirements
Malcolm Verdict

4:15 - 4:30 Meeting Wrap-up and Q&A
Doug Culbreth
Malcolm Verdict

What will be Covered?

FEMP Energy Metering Workshop

Increase Federal energy managers and procurement personnel knowledge of the multiple uses and benefits of collecting and analyzing measured building energy data beyond the utility meter. Workshop presenters will provide a non-technical overview of cost-effective, day-to-day uses of energy data.

Who Should Attend?

Facility and Energy Managers
Federal procurement and Contract Staff

Hotel Information

Atlanta hotels convenient to the Georgia World Congress Center

*Days Inn	404-523-1144
Holiday Inn	404-524-5555
Marriott Marquis	404-521-0000
Omni	404-659-0000
*Westin Peachtree Plaza	404-659-1400
Wyndham Atlanta	404-688-8600

*Government rates available

U.S. Department of Energy
Federal Energy
Management Program &

Alliance to Save Energy

Present Two Training Opportunities

Super ESPC Delivery Order Workshop

Monday, October 18, 1999

&

FEMP Energy Metering Workshop

Tuesday, October 19, 1999

World Energy Engineering Congress - WEEC '99

Georgia World Congress Center
Atlanta, Georgia

Super ESPC Delivery Order Workshop

Monday, October 18, 1999

Super ESPC Delivery Order Workshop

Monday, October 18, 1999

8:30 - 9:15	Welcome, Introduction, and Participant Expectations Angela Carroll, <i>SE Contract Specialist</i> Doug Culbreth, <i>Assistant to SE COR</i> Terry Sharp, <i>SE Technical Assistance</i>
9:15 - 9:45	Review of Prerequisite ESPC Angela Carroll Terry Sharp
9:45 - 10:00	BREAK
10:00 - 10:45	Module 1: Super ESPC Background and Process Doug Culbreth Angela Carroll
10:45 - Noon	Module 2: The Process For Selecting A Contractor Angela Carroll Doug Culbreth
Noon - 1:00	LUNCH

1:00 - 2:30 **Module 3: The Delivery**

Order REF Package
Terry Sharp

2:30 - 2:45	BREAK
2:45 - 3:30	Module 4: Delivery Order Evaluation Through Award Angela Carroll Terry Sharp
3:30 - 3:45	Module 5: Post Award Administration Terry Sharp
3:45 - 4:00	BREAK
4:00 - 4:30	Module 6: FEMP Service Network Doug Culbreth
4:30 - 5:00	Review of Expectations- Were They Met? Angela Carroll
5:00 -	Q & A

What will be Covered?

Super ESPC Delivery Order Workshop (Classroom)

- This workshop is for agencies that wish to consider participation in FEMP Super Performance Contract (Super ESPC). To help streamline the procurement process for the purchase of energy conserving equipment and services, agencies are able to issue orders off the DOE contracts that cover specific regions or technologies.

Workshop Prerequisite

- To be eligible for this workshop, registrants must have completed either an instructor-led ESPC workshop or the ESPC video training program. To obtain a copy of the video training program, please call the FEMP Help Desk 1-800-DOE-EREC (363-3732)

Who Should Attend?

- Federal facility technical and procurement personnel interested in participating in Regional or Technology-Specific Super ESPC's

For more information:
Please Call Susanne Pile at
(703) 243-8343

Registration Information

Name

Title

Organization

Address

City

Zip

Phone

Fax

E-mail Address

☐ Super ESPC Delivery Order Workshop

Send to: NREL, c/o Camber Corp.
1655 N. Fort Myer Dr., Suite 1200
Arlington, VA 22209
Phone: 703-243-8343
Fax: 703-243-8063

☐ FEMP Energy Metering Workshop

Send to: Alliance to Save Energy Workshop
Attn: Luther Dudich
1200 18th Street, NW, Suite 900
Washington, DC 20036
Phone: 202-530-2243
Fax: 202-331-9588

Atlanta_Workshop_attendees

ID	First Name	Last Name	title	organization	address 1	address 2	city	state	zip code	phone
1	Ronald	Rivera	Electrical Engineer/ Energy Manager	Naval Ordnance Test Unit	PO Box 1623		Cape Canaveral	FL	32920-1623	(321) 853-1221
2	Robert V.	Walker, Jr.	Chief, Test Support Division	AEDC/SDT	1099 Avenue C		Arnold AFB	TN	37389-9015	(931) 454-4332
3	Robert J.	Schwer	ACS, Deputy General Manager	AEDC/ACS	Bldg 100	Suite A205	Arnold AFB	TN	37389-1205	(931) 454-7387
4	Diane	Mansker	Energy Engineer Tech	National Park Service	PO Box 700		El Portal	CA	95318-	(209) 379-1056
5	Kelly	Snook	Asst Director, Housing & Energy	OUSD (Installations)	Pentagon, Room 3D784		Washington	DC	20301-3300	(703) 697-6195
6	Drew	Causey	Energy Management Course Director	Air Force Institute of Technology	2950 P Street	Bldg 643	Wright-Patterson AFB	OH	45433-	(937) 255-5654 ext 3549
7	Richard H.	Larson	Supervisor, Maintenance Operations	U.S. Postal Service	2400 DFW Turnpike		Dallas	TX	75398-9998	(214) 467-5855
8	Lee F.	Merrill	Utilities Department Head	Navy Public Works Center	P.O. Box 30	Code 600	Jacksonville	FL	32212-	(904) 542-5132
9	Dennis L.	Jones	PE	USDA-ARS National Animal Disease Center	2300 Dayton Avenue		Ames	Iowa	50010-	(515) 663-7217
10	E. Carroll	Shepherd, III	Agency Energy Manager	Defense Commissary Agency	1300 E Avenue		Fort Lee	VA	23801-1800	804-765-2711
11	Francis	Wheeler	Director, Federal and State Projects	Water Management, Inc.	117 Clermont Avenue		Alexandria	VA	22304-	(703) 370-9070
12	Gary R.	Happel	Civil Engineer	NCI-Fredrick	Building 427, Room 15		Fredrick	MD	21702-1201	(301) 846-1102
14	Doug	Culbreth		DOE Atlanta Regional Office						(919) 788-5238
15	Satish	Kumar		LBNL						(202) 646-7953
17	Bill	Chvala	Development Engineer	Pacific Northwest National Laboratory	902 Battelle Boulevard	P.O. Box 999	Richland	WA	99352	(509) 372-4558
20	Russell	Dominy	Project Developer	U.S. Navy, NFESC	1100 23rd Avenue		Port Hueneme	CA	93043-5014	(805) 982-5177
21	Jose V.	Maniawang	Energy Program Manager	Naval Facilities Engineering Command	1322 Patterson Ave	Suite 1000	Washington	DC	20374-	(202) 685-9255
22	Peter	Hill	Head, Energy Program Execution Branch	U.S. Naval Facilities Engineering Service Center	1100 23rd Avenue		Port Hueneme	CA	93043-	(805) 982-3502
23	Joan	Lydon	Public Utilities Spec	10 CES/CEOE	8120 Edgerton Drive	Suite 40	USAF Academy	CO	80840-2400	(719) 333-4540
24	Dr. Charles J.	Cromer, P.E.	Program Director	Florida Solar Energy Center	1679 Clearlake Road		Cocoa	FL	32922-5703	(321) 638-1445
25	Victor	Bush	Practice & Technology Leader	URS Corporation	Stanford Place 3	4582 South Uls	Denver	CO	80237-	(303) 740-2637
26	Jeff	Tucker	Electrical Engineer	796 CES/CEORE	501 DeLeon Street	Suite 100	Eglin AFB	FL	32542-5133	850-882-3370, ext. 556
27	Capt Frank	Miyagawa	Requirements Flight Commander	96th Civil Engineer Group	501 DeLeon St		Eglin AFB	FL	32542-	850-882-3370 ext370
28	Bob	Grieves	Mechanical Engineer, Energy Program Manager	Public Works Dept, COMNAVACTUK						44 (0) 1895 616268
29	James	Pringle	Senior Engineer	Potomac Electric Power Company	Center Park 2, Suite 4061	Powder Mill	Calverton	MD	20705-	(301) 931-2824
30	Lynda	Sisk	Program Manager	HQ AFCESA/CESM (TRW Contractor)	139 Barnes Drive, Suite 1		Tyndall AFB	FL	32403-5319	850-283-6220
31	Dr. C. C.	Chen, P.E.	Professor and Project Director	SU/DNR	7925 Meadow Ave.		Baton Rouge	LA	70811-	(225) 771-4701
32	Gerald	Doddington	Mechanical Engineer	AF Civil Engineer Support Agency	139 Barnes Drive	Suite 1	Tyndall AFB	FL	32403-	(850) 283-6343
33	Jerry	Harris	EMCS Manager	14 CES/CEO	555 Simler Blvd.		Columbus AFB	MS	39710-	662-434-7427
34	THOMAS W.	WALLER, JR.,	BASE ENERGY MANAGER/UTILITY ENGINEER	14 CES/CEOE	555 SIMLER BLVD.		COLUMBUS AFB	MS	39710-6010	662-434-7403
35	Steve	Carr	Asst. Building Manager	Social Security Administration	2001 - 12th Ave. North, Dept. FBMT		Birmingham	AL	35285-	205-801-1016
36	David	Spearman	Mechanical Inspector	Social Security Administration	2001 - 12th Ave. North, Dept. FBMT		Birmingham	AL	35285-	205-801-1016
37	Vernon	Gillis	Energy Manager	78 CES/CEOE	775 Macon Street		Robins AFB	GA	31098-	(912) 926-5820 ext.175
38	Robert	Jay	Energy Manager	U.S. Army Medcom	2050 Worth Road		Ft. Sam Houston	TX	78234-	(210) 221-7933
39	James	Butts	Mechanical Engineer	US Army Medcom	2050 Worth Road		FT. Sam Houston	TX	78234-	(210) 221-6441
40	Tony	Figueiras	Senior Electrical Engineer	Smithsonian Institution	Office of Physical Planning	750 Ninth Street	Washington	DC	20001-4505	(202) 275-0431
41	Judy	Bodo		DOI-BIA						
44	Jesus	Gimenez	Energy Conservation Manager	DPW Environmental Division	Directorate of Public Works	US Army Garrison	Fort Buchanan	PR	00934	(787) 707-3573
46	Earl	Smith		COMFAIRMED						(39) 081-568-4614
48	Robert	Barnea		MEDCOM						(210) 221-5773
50	Luis Emilio	Ramirez, Paga	Project Manager	ALPROEM Engineering Services P.S.C.	PMB # 419	2135 Carr. #2,	Bayamon	PR	00959-5259	(787) 995-0309
51	Luis Alberto	Ocasio	Project Manager	ALPROEM Engineering Services P.S.C.	PMB # 419	2135 Carr. #2,	Bayamon	PR	00959-5259	(787) 995-0309

FEMP Energy Metering Workshop

What Will Be Covered?

Workshop presenters will provide a non-technical overview of cost-effective, practical uses of energy data, energy savings from building commissioning, and new guidance for monitoring and verification of ESPC projects.

Purpose

Increase participant knowledge of the multiple uses and benefits of collecting and analyzing measured building energy data.

Who Should Attend?

Facility Energy Managers
Federal Procurement and Contract Staff
involved with ESPC Contracting

Hotel Information

Atlanta hotels convenient to the
Georgia World Congress Center

Days Inn	404-523-1144
Holiday Inn	404-524-5555
Marriott Marquis	404-521-0000
Omni	404-659-0000
Westin Peachtree Plaza	404-659-1400
Wyndham Atlanta	404-688-8600

FEMP Energy Metering Workshop

Tuesday, October 24, 2000

8:00 – 8:30	Registration & Refreshments
8:30 – 9:00	Welcome, Introductions, and Meeting Overview Tatiana Muessel, <i>FEMP</i> Christine McKay, <i>DOE Atlanta Regional Office</i> Malcolm Verdict, <i>Alliance to Save Energy</i>
9:00 – 9:30	Metering Uses & Benefits Dr. Dan Turner, <i>Texas A & M University</i>
9:30 – 10:15	Federal Metering Guidelines E.O. 13123 - Malcolm Verdict IPMVP Guidelines - Satish Kumar, <i>Lawrence Berkeley National Laboratory (LBNL)</i>
<i>NEW!</i>	
10:15 – 10:30	BREAK
10:30 – 12:00	Resources for Metering & Commissioning Metering ESPC's - Satish Kumar, LBNL Training Resources - Bill Chvala, <i>Pacific Northwest National Laboratory</i> Ft. Hood Commissioning Pilot - Dr. Dan Turner

Noon – 1:15 **LUNCH**
on your own

1:15– 1:45	Best Practices - M & V Exemplary Plans NREL representative
1:45– 3:15	Best Practices - ESCO Approaches to M & V Dan Millstein, <i>E-mon</i> Paul Stack, <i>Johnson Controls</i>
3:15 – 3:30	Break
3:30– 4:00	Best Practices - Agency Approaches to Metering
4:00 – 4:15	Meeting Wrap-up and Q&A Christine McKay Malcolm Verdict

Registration Information*

Name

Title

Organization

Address

City/State/Zip

Phone

Fax

E-mail Address

o **FEMP Energy Metering Workshop**

Fax or Mail to:

Alliance to Save Energy Workshop

1200 18th Street, NW, Suite 900

Washington, DC 20036

Phone: 202-857-0666

Fax: 202-331-9588

o **Online Registration**

www.ase.org/octworkshop.htm

*No Registration Fee

ALLIANCE TO
SAVE ENERGY
Third Decade of Leadership

Printed on recycled paper

U.S. Department of Energy's
Federal Energy Management Program
DOE Atlanta Regional Office
and
Alliance to Save Energy

Present a One-Day
Training Opportunity

FEMP Energy Metering Workshop

For Federal Employees
and Contractors

Tuesday, October 23, 2001
8:30 a.m. - 4:15 p.m.

at the

**World Energy Engineering
Congress – WEEC 2001**

RM. 304, East Concourse

Georgia World Congress Center
Atlanta, Georgia

FEMP Energy Metering Workshop

What Will Be Covered?

Workshop presenters will provide a non-technical overview of practical examples and cost-effective technologies for metering energy use as well as guidance on how to verify energy savings.

Purpose

Increase participant knowledge of the multiple uses and benefits of collecting and analyzing measured building energy data.

Who Should Attend?

Facility Energy Managers
Federal Procurement and Contracting Staff involved with ESPC Contracting

Hotel Information

Atlanta hotels convenient to the Georgia World Congress Center

Days Inn	404-523-1144
Holiday Inn	404-524-5555
Marriott Marquis	404-521-0000
Omni	404-659-0000
Westin Peachtree Plaza	404-659-1400
Wyndham Atlanta	404-688-8600

FEMP Energy Metering Workshop

Tuesday, October 23, 2001

8:00 – 8:30	Registration & Coffee
8:30 – 8:45	Welcome, Introductions, and Meeting Overview/ Expectations Doug Culbreth, <i>DOE Atlanta Regional Office</i> Malcolm Verdict, <i>Alliance to Save Energy</i>
8:45 – 9:30	Why Meter & Metering Basics Dr. Dan Turner, <i>Texas A & M University</i>
9:30 – 10:15	Federal Metering Guidelines New 2001 Metering & Verification Guidelines & Option "A" Guidance - Satish Kumar, <i>Lawrence Berkeley National Laboratory</i> E.O. 13123 Reporting - Malcolm Verdict
10:15 – 10:30	BREAK
10:30 – 11:30	Resources for Metering & Commissioning FEMP Technical Assistance Resources - <i>DOE Representative</i> Computer-based Training

11:30-Noon	M & V Best Practices FEMP Metering Guidance & Sample Metering Plans - Lia Webster, <i>NREL/Nextant</i>
Noon – 1:15	LUNCH On your own
1:15 – 2:30	Case Studies of Successful M & V Projects Sempra Energy Solutions Representative Johnson Controls Representative E-mon, Inc. Representative
2:30 – 2:45	FEMP/ Washington Update Beth Shearer, <i>Director, FEMP</i>
2:45 – 3:00	Break
3:00– 3:30	Successful Case Studies, continued GSA Building Case Study National Laboratory Case Study
4:00 – 4:15	Meeting Wrap-up and Q & A Doug Culbreth Malcolm Verdict

Attachment 2:

Advanced Metering Workshop

First Name	Last Name	Agency/Organization	Title	Phone	Email
Gary L.	Hein	Air Force Civil Engineer Support Agency (AFCESA)	Energy Program Manager	(850) 283-6329	Gary.Hein@tvdnall.af.mil
Luther	Dudich	Alliance to Save Energy			ldudich@ase.org
Harry	Misurello	Alliance to Save Energy	Director of Buildings Programs	202-530-2214	hmisurello@ase.org
Al	Stayman	Alliance to Save Energy		202-530-2236	astayman@ase.org
Michael	Steinhacker	Alliance to Save Energy			msteinhacker@ase.org
Stuart	Waterbury	Architectural Energy Corp		303-444-4149 x217	swaterbury@archenergy.com
Jeff	Williams	Centers For Disease Control & Prevention	Electrical Engineer	404-639-0300	yzw7@cdc.gov
Ken	Turner	CNO	Chief of Naval Operations	703-601-1617	turner.ken@hq.navy.mil
Jose	Maniwang	Department of the Navy, NAVFACENCOM HQ	Energy Program Manager	202-685-9255	maniwangjv@navfac.navy.mil
Regina M.	Larrabee	Dept of Commerce	Energy Manager	202-482-2345	Regina.Larrabee@hqda.army.mil or regin
George	Kuehn	Dept. of Transportation	Energy Manager	202-366-1614	george.kuehn@ost.dot.gov
Sat P.	Gupta	Dept. Of Veterans Affairs 183A	Principal Mech. Eng. Consultant	202-565-5268	sat.p.gupta@hq.med.va.gov
Will	Lintner	DOE	General Engineer	202-586-3120	william.lintner@ee.doe.gov
Eric	Ackerman	Edison Electric Institute		202-508-5528	EAckerman@eei.org
Rick	Tempchin	Edison Electric Institute		202-508-5558	rtempchin@eei.org
David	Bovankovich	E-Mon		800-334-3666	dbovank@emon.com
Jim	Leonard	E-Mon		800-334-3666	leonard@emon.com
Edward	St. Germain	EMR Inc.	Senior Engineer	703-875-2800	egermain@emrinc.com
Brian	Connor	FEMP	Director, DOE Energy Services	202-586-3756	Brian.Connor@ee.doe.gov
Ab Ream	Ream	FEMP	Program Manager		ab.ream@ee.doe.gov
Skye	Schell	FEMP	Office Director- Planning, Budget, Outreach	202-586-9015	schuyler.schell@ee.doe.gov
Elizabeth	Shearer	FEMP	Director	202-586-5772	elizabeth.shearer@ee.doe.gov
Ed	Anderson	Florida Power and Light		321-726-4943	ed_a_anderson@fpl.com
Mark	LaTorre	GSA, HOTD	Electrical Engineer	202-690-9704	mark.latorre@gsa.gov
Jagdish R.	Sarpal	HHS/FDA	Mechanical Engineer	301.827.7017	jsarpal@oc.fda.gov
Bill	Brodts	HQ NASA Facilities Engineering Division	Experimental Facilities Engineer	202 358 1117	wbrodts@hq.nasa.gov
Carl F.	Zeigler	HQMC	Electrical Engineer (Energy Program Manager)	703-695-9781 ex3302	zeiglercf@hqmc.usmc.mil
Adam	Scully	Indian Health service-HHS	Energy coordinator	301-443-4572	ascully@hqe.ih.gov
John	Moresko	Interior	Energy manager	202-208-5704	John.Moresko@ios.doi.gov
Ron L.	VanGenderen	Internal Revenue Service	Project Manager	559-454-9992 or 559-454-	Ron.L.VanGenderen@irs.gov or ron.vangr
Jeffrey	Harris	LBNL	Staff Scientist	202 646 7960	JPHarris@lbl.gov
Edward	Telfair	Maritime Administration	Facilities Manager	202-366-2812	Edward.Telfair@marad.dot.gov
Chris	Iannello	NASA		321-861-3276	Christopher.Iannello-1@ksc.nasa.gov
Richard	Wickman	NASA	Energy Coordinator	202-358-1113	rwickman@hq.nasa.gov
David	Amidei	NASA Headquarters - Environmental Management Division	Environmental Engineer	202-358-1866	damidei@hq.nasa.gov
Leonard	Abercrombie	Naval District of Washington	Regional Energy Manager	(202) 433-0453	abercrombie.leonard@pwcwash.navy.mil
William F.	Taylor	Naval Facilities Engineering Command	Head, Energy and Utilities	202 685-9254	taylorwf@navfac.navy.mil
John	Thomas	Navy Public Works Center San Diego	Utilities Business Support Division Director	619-556-7989	Thomas.JW@PWCSD.NAVY.MIL
Cecile	Holloway	Navy Public Works Center Washington	Engineer	202-685-0250	holloway.cecile@pwcwash.navy.mil
Reza	Jafari	NIH	Senior Electrical Engineer	301-435-9384	jafarir@mail.nih.gov
Andy	Walker	NREL	Senior Engineer	303 384 7531	andy_walker@nrel.gov
Mike	MacDonald	Oak Ridge National Lab	Staff Member	865-574-5187	macdonaldjm@ornl.gov
James	Pringle	PEPCO	Sr. Engineer	(301) 931-2824	jpringle@pepco.com
Mike	Bearden	Siemens			mike.bearden@ptd.siemens.com
John	McAhern	Siemens		765-429-1431	john.mcahern@ptd.siemens.com
Malcolm	Verdict	Texas Engineering Experiment Station-Energy Systems	Associate Director	979-847-8949	mverdict@esi.tamu.edu
Marcos	Irizary	U.S. Dept. of Treasury	Energy Coordinator	202-354-7464	mirizary@usmint.treas.gov
Scott	Houldsworth	U.S. Marine Corps	Program Analyst	703-695-8410	houldsworthsp@hqmc.usmc.mil
Mark	Bellis	US NAVY		703-588-6685	bellis.mark@hq.navy.mil
Dan	Delurey	Wedgemere Group			dan@wedgemere.com
Victor	Boed	Yale University		203-432-6798	viktor.boed@yale.edu

Advanced Metering Seminar Evaluation Form

Attendee Feedback Form

Thank you for attending. We hope it's been a learning experience for you. You can help us serve you even better in the future by giving us your candid observations on this seminar. Your comments will allow us to tailor future sessions to the needs of our participants.

1. Overall, I rate this training seminar as:

☐ Excellent

☒ Good

☐ Poor

2. Please check the appropriate response:

Objective: Increasing awareness of advanced metering.

☒ Accomplished

☐ Partially

☐ No

Organization:

☒ Excellent

☐ Adequate

☐ Poor

Length:

☒ Just Right

☐ Too short

☐ Too long

Handouts:

☐ Excellent

☒ Adequate

☐ Poor

Speakers:

☐ Excellent

☒ Adequate

☐ Poor

3. Would you recommend this seminar to a colleague?

☐ Definitely

☒ Maybe

☐ No

4. What were the strong points of this seminar?

Allowed interaction between participants, industry,
and field experience

5. How could this seminar have been improved?

6. Please complete the following: "One comment I'd like to make about this program is:

_____."

(over)

7. My Occupation is best described as:

☒ Energy Management Team

☐ Facility Manager

☐ Energy Engineer

☐ Property Manager

☐ Operations and Maintenance Manager

☐ Federal or Military Procurement Official

☐ Other: _____

8. Any other comments?

9. May we use your comments in future promotional materials?

☐ Yes

☐ No

Your Name(optional): _____

Agency (optional): _____

Please leave this at the registration desk.

Evaluation Form

Advanced Metering Seminar Evaluation Form

Attendee Feedback Form

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☐ No

Organization:

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☐ Adequate

☐ Poor

Length:

☐ Just Right

☐ Too short

maybe

☒ Too long

Handouts:

☒ Excellent

☐ Adequate

☐ Poor

Speakers:

☒ Excellent

☐ Adequate

☐ Poor

3. Would you recommend this seminar to a colleague?

☒ Definitely

☐ Maybe

☐ No

4. What were the strong points of this seminar?

hands on case studies

5. How could this seminar have been improved?

*more info on costs for installed systems
meter point, etc. need handouts showing
information, guide books on metering systems, types of
meters, etc.*

6. Please complete the following: "One comment I'd like to make about this program is:

Do more

(over)

7. My Occupation is best described as:

☐ Energy Management Team

☐ Facility Manager

☐ Energy Engineer

☐ Property Manager

☐ Operations and Maintenance Manager

☐ Federal or Military Procurement Official

☒ Other: University / Federal Contractor

8. Any other comments?

Excellent range of topics &
speakers

9. May we use your comments in future promotional materials?

☒ Yes

☐ No

Your Name(optional): Malcolm Verdini

Agency (optional): _____

Please leave this at the registration desk.

Evaluation Form

Advanced Metering Seminar Evaluation Form

Attendee Feedback Form

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Objective: Increasing awareness of advanced metering.

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☐ Partially

☐ No

Organization:

☒ Excellent

☐ Adequate

☐ Poor

Length:

☒ Just Right

☐ Too short

☐ Too long

Handouts:

☐ Excellent

☐ Adequate

☐ Poor

Speakers:

☐ Excellent

☐ Adequate

☐ Poor

3. Would you recommend this seminar to a colleague?

☐ Definitely

☒ Maybe

☐ No

4. What were the strong points of this seminar?

- GOOD TO SEE WHAT EVERYONE ELSE IS DOING

5. How could this seminar have been improved?

- MORE CASE STUDIES

6. Please complete the following: "One comment I'd like to make about this program is:

GOOD INFORMATION - NICE TIME

(over)

7. My Occupation is best described as:

☐ Energy Management Team

☒ Facility Manager

☒ Energy Engineer

☐ Property Manager

☐ Operations and Maintenance Manager

☐ Federal or Military Procurement Official

☐ Other: _____

8. Any other comments?

9. May we use your comments in future promotional materials?

☒ Yes

☐ No

Your Name (optional): ^{DR} CHRIS IANNELLO _____

Agency (optional): NASA _____

Please leave this at the registration desk.

Evaluation Form

Advanced Metering Seminar Evaluation Form

Attendee Feedback Form

Thank you for attending. We hope it's been a learning experience for you. You can help us serve you even better in the future by giving us your candid observations on this seminar. Your comments will allow us to tailor future sessions to the needs of our participants.

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☐ Good

☐ Poor

2. Please check the appropriate response:

Objective: Increasing awareness of advanced metering.

☒ Accomplished

☐ Partially

☐ No

Organization:

☒ Excellent

☐ Adequate

☐ Poor

Length:

☒ Just Right

☐ Too short

☐ Too long

Handouts:

☒ Excellent

☐ Adequate

☐ Poor

Speakers:

☒ Excellent

☐ Adequate

☐ Poor

3. Would you recommend this seminar to a colleague?

☒ Definitely

☐ Maybe

☐ No

4. What were the strong points of this seminar?

Yale and NASA presentations

5. How could this seminar have been improved?

No

suggestions

6. Please complete the following: "One comment I'd like to make about this program is:

(over)

7. My Occupation is best described as:

☐ Energy Management Team

☐ Facility Manager

☐ Energy Engineer

☐ Property Manager

☒ Operations and Maintenance Manager

☐ Federal or Military Procurement Official

☐ Other: _____

8. Any other comments?

9. May we use your comments in future promotional materials?

☒ Yes

☐ No

Your Name(optional): Bill Brodt _____

Agency (optional): NASA _____

Please leave this at the registration desk.

Evaluation Form

Attendee Feedback Form

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Organization:

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☐ Adequate

☐ Poor

Length:

☒ Just Right

☐ Too short

☐ Too long

Handouts:

☒ Excellent

☐ Adequate

☐ Poor

Speakers:

☒ Excellent

☐ Adequate

☐ Poor

3. Would you recommend this seminar to a colleague?

☒ Definitely

☐ Maybe

☐ No

4. What were the strong points of this seminar?

The presentations made by the industry reps set the tempo well and rounding them out with the actual case histories added needed credibility to the subject matter.

5. How could this seminar have been improved?

Presenting only two instead of three case histories would have been much more palatable. Also having the PA system working earlier in the day would have made for a much more relaxing time.

6. Please complete the following: "One comment I'd like to make about this program is:

that the information presented is timely and invaluable to a well conceived energy management program.

."

7. My Occupation is best described as:

☐ Energy Management Team

☒ Facility Manager

☐ Energy Engineer

☐ Property Manager

☐ Operations and Maintenance Manager

☐ Federal or Military Procurement Official

☐ Other: _____

8. Any other comments?

9. May we use your comments in future promotional materials?

☒ Yes

☐ No

Your Name(optional): Edward
Telfair _____

Agency (optional): Maritime
Administration _____

Please leave this at the registration desk.

Evaluation Form

Advanced Metering Seminar Evaluation For

Attendee Feedback Form

Thank you for attending. We hope it's been a learning experience for you. You can help us serve you even better in the future by giving us your candid observations on this seminar. Your comments will allow us to tailor future sessions to the needs of our participants.

1. Overall, I rate this training seminar as:

☒ Excellent

☐ Good

☐ Poor

2. Please check the appropriate response:

Objective: Increasing awareness of advanced metering.

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☐ Partially

☐ No

Organization:

☒ Excellent

☐ Adequate

☐ Poor

Length:

☒ Just Right

☐ Too short

☐ Too long

Handouts:

☐ Excellent

☒ Adequate

☐ Poor

Speakers:

☐ Excellent

☒ Adequate

☐ Poor

3. Would you recommend this seminar to a colleague?

☒ Definitely

☐ Maybe

☐ No

4. What were the strong points of this seminar?

Just the right amount of time and kept right on schedule (Excellent!); good variation and selection of speakers and topics; good chance to meet peers; excellent refreshments; not many attendee personal situations discussed, and those that were were of general interest. Case histories informational and beneficial.

5. How could this seminar have been improved?

Survey probable attendees in advance to determine their most pressing issues and questions so that the presentations can be directed in those directions. Also, it would be more comfortable to specify in the announcement that business casual dress is acceptable and expected.

6. Please complete the following: "One comment I'd like to make about this program is:

"The benefits of metering is not getting down to the subordinate levels and we have to do a much better job at advertising it, educating them about it, dispelling their fears and misconceptions, and providing real financial incentives for them to try it. This is a start."

(over)

7. My Occupation is best described as:

☐ Energy Management Team

☐ Facility Manager

☐ Energy Engineer

☐ Property Manager

☐ Operations and Maintenance Manager

☐ Federal or Military Procurement Official

X Other: Engineering Consultant

8. Any other comments?

9. May we use your comments in future promotional materials?

X Yes

☐ No

Your Name(optional): Ed St.Germain

Agency (optional): Enviro-Management and Research Inc (EMR, Inc)

Please leave this at the registration desk.

Evaluation Form

Advanced Metering Seminar Evaluation Form

Attendee Feedback Form

Thank you for attending. We hope it's been a learning experience for you. You can help us serve you even better in the future by giving us your candid observations on this seminar. Your comments will allow us to tailor future sessions to the needs of our participants.

1. Overall, I rate this training seminar as:

☒ Excellent

☐ Good

☐ Poor

2. Please check the appropriate response:

Objective: Increasing awareness of advanced metering.

☒ Accomplished

☐ Partially

☐ No

Organization:

☒ Excellent

☐ Adequate

☐ Poor

Length:

☒ Just Right

☐ Too short

☐ Too long

Handouts:

☐ Excellent

☒ Adequate

☐ Poor

Speakers:

☒ Excellent

☐ Adequate

☐ Poor

3. Would you recommend this seminar to a colleague?

☒ Definitely

☐ Maybe

☐ No

4. What were the strong points of this seminar?

- Strong expertise of Federal metering managers
- Specific case studies, wants & all

5. How could this seminar have been improved?

- A session on process of deploying metering at large facilities; i.e., priorities, costs, etc.
- Inform USIE and cost reductions resulting from utility cost allocation to tenants

6. Please complete the following: "One comment I'd like to make about this program is:

Strong technical content delivered by Federal utility managers

(over)

7. My Occupation is best described as:

- ☐ Energy Management Team
☐ Facility Manager
☐ Energy Engineer
☐ Property Manager
☐ Operations and Maintenance Manager
☐ Federal or Military Procurement Official
☒ Other: Alliance Staff

8. Any other comments?

9. May we use your comments in future promotional materials?

☒ Yes

☐ No

Your Name(optional): Harvey Misaniello

Agency (optional): Alliance to Save Energy

Please leave this at the registration desk.

Evaluation Form

Thank you for attending. We hope it's been a learning experience for you. You can help us serve you even better in the future by giving us your candid observations on this seminar. Your comments will allow us to tailor future sessions to the needs of our participants.

1. Overall, I rate this training seminar as:

XX Excellent

☐ Good

☐ Poor

2. Please check the appropriate response:

Objective: Increasing awareness of advanced metering.

☐ Accomplished

XXX Partially

☐ No

Organization:

XXX Excellent

☐ Adequate

☐ Poor

Length:

XXX Just Right

☐ Too short

☐ Too long

Handouts:

☐ Excellent

XXX Adequate

☐ Poor

Speakers:

☒ Excellent

XXX Adequate

☐ Poor

3. Would you recommend this seminar to a colleague?

XXX ☐ Definitely

☐ Maybe

☐ No

4. What were the strong points of this seminar?

The strong points are educating the participants what had been accomplished and the available information on the web.

5. How could this seminar have been improved?

Provide discussion on metering strategies and product hand-outs so participants can evaluate and apply this information to their facilities.

6. Please complete the following: "One comment I'd like to make about this program is:

That the seminar is great. It is one way of emphasizing to all federal managers that we need to meter the main lines and monitor their energy consumption."

(over)

7. My Occupation is best described as:

☐ Energy Management Team

XXX☐ Facility Manager

XXX☐ Energy Engineer

☐ Property Manager

☐ Operations and Maintenance Manager

☐ Federal or Military Procurement Official

☐ Other: _____

8. Any other comments?

Job well done for arranging the seminar and the location is great. _____

9. May we use your comments in future promotional materials?

XXX☐ Yes

☐ No

Your Name(optional): _____

Agency (optional): _____

Please leave this at the registration desk.

Dudich, Luther

From: Sarpal, Jagdish R [JSARPAL@OC.FDA.GOV]
Sent: Monday, July 22, 2002 6:44 AM
To: 'LDudich@ase.org'
Subject: RE: July 18 advanced metering seminar follow-up

Thank you for attending. We hope it's been a learning experience for you. :

1. Overall, I rate this training seminar as:

X ☐ Excellent ☐ Good ☒ Poor

2. Please check the appropriate response:

Objective: Increasing awareness of advanced metering.

* ☐ Accomplished ☐ Partially ☐ No

Organization: X ☐ Excellent ☐ Adequate ☒ Poor

Length: X ☐ Just Right ☐ Too short ☐ Too long

Handouts: X ☐ Excellent ☒ Adequate ☒ Poor

Speakers: X ☐ Excellent ☐ Adequate ☐ Poor

3. Would you recommend this seminar to a colleague?

X ☐ Definitely ☐ Maybe ☐ No

1. What were the strong points of this seminar?

_____ well structured and arranged seminar

2. How could this seminar have been improved?

_____ It already was.

7/22/2002

3. Please complete the following: "One comment I'd like to make about this program is:

_____None_____

- My Occupation is best described as:

☒ Energy Management Team

☐ Facility Manager

☒ Energy Engineer

☐ Property Manager

☒ Operations and Maintenance Manager

☐ Federal or Military Procurement Official

☐ Other: _____

- Any other comments?

_____None_____

- May we use your comments in future promotional materials?

X Yes ☐ No

Your Name(optional): Jagdish R. Sarpal (Energy Coordinator) _____

Agency (optional): FDA _____

-----Original Message-----

From: LDudich@ase.org [mailto:LDudich@ase.org]

Sent: Friday, July 19, 2002 1:43 PM

Subject: July 18 advanced metering seminar follow-up

Thank you for attending our Advanced Metering Seminar yesterday. We had over 50 participants, and the attendees we talked to were very pleased with the results. In order to help us to tailor future events to meet your needs better, we would appreciate it if you could fill out and return the enclosed evaluation sheet if you did not do so at the Seminar itself.

We will keep you informed about future events relating to Federal use of advanced metering.

Thank you once again.

-The Alliance to Save Energy Federal Energy Productivity Program

Luther W. Dudich

Alliance to Save Energy

Buildings Team

202/530-2243

202/262-8352 (cell)

202/331-9588 (fax)

ldudich@ase.org

Click here to help the Alliance fight global climate change.

The **New Improved** Environment Site.

<http://www.environmentsite.org>

7/22/2002

Advanced Metering Seminar Evaluation Form

Attendee Feedback Form

Thank you for attending. We hope it's been a learning experience for you. You can help us serve you even better in the future by giving us your candid observations on this seminar. Your comments will allow us to tailor future sessions to the needs of our participants.

1. Overall, I rate this training seminar as:

☐ Excellent

☒ Good

☐ Poor

2. Please check the appropriate response:

Objective: Increasing awareness of advanced metering.

☐ Accomplished

☒ Partially

☐ No

Organization:

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☒ Adequate

☐ Poor

Length:

☒ Just Right

☐ Too short

☐ Too long

Handouts:

☐ Excellent

☒ Adequate

☐ Poor

Speakers:

☐ Excellent

☒ Adequate

☐ Poor

3. Would you recommend this seminar to a colleague?

☐ Definitely

☒ Maybe

☐ No

4. What were the strong points of this seminar?

Good group size for presentations and discussion

5. How could this seminar have been improved?

Less focus on use of submetering for billing allocation, which is seldom a main concern for federal customers, compared with operational energy management and M&V

6. Please complete the following: "One comment I'd like to make about this program is:

7. My Occupation is best described as:

☐ Energy Management Team

☐ Facility Manager

☐ Energy Engineer

☒ Property Manager

☐ Operations and Maintenance Manager

☐ Federal or Military Procurement Official

☒ Other: Research

8. Any other comments?

9. May we use your comments in future promotional materials?

☒ Yes

☐ No

Your Name(optional): Jeff Harris

Agency (optional): LBNL

Please leave this at the registration desk.

Evaluation Form

Advanced Metering Seminar Evaluation Form

Attendee Feedback Form

Thank you for attending. We hope it's been a learning experience for you. You can help us serve you even better in the future by giving us your candid observations on this seminar. Your comments will allow us to tailor future sessions to the needs of our participants.

1. Overall, I rate this training seminar as:

☐ Excellent

☒ Good

☐ Poor

2. Please check the appropriate response:

Objective: Increasing awareness of advanced metering.

☐ Accomplished

☒ Partially

☐ No

Organization:

☒ Excellent

☒ Adequate

☐ Poor

Length:

☒ Just Right

☐ Too short

☐ Too long

Handouts:

☐ Excellent

☒ Adequate

☐ Poor

Speakers:

☐ Excellent

☒ Adequate

☐ Poor

3. Would you recommend this seminar to a colleague?

☒ Definitely

☐ Maybe

☐ No

4. What were the strong points of this seminar?

_____ case

studies _____

5. How could this seminar have been improved?

More focused on a particular

issue _____

6. Please complete the following: "One comment I'd like to make about this program is:

Tried to accomplish too many things in a short time _____

."

(over)

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X ☐ Excellent ☐ Good ☐ Poor

2. Please check the appropriate response:

Objective: Increasing awareness of advanced metering.

x ☐ Accomplished ☐ Partially ☐ No

Organization:

x ☐ Excellent ☐ Adequate ☐ Poor

Length:

x ☐ Just Right ☐ Too short ☐ Too long

Handouts:

x ☐ Excellent ☐ Adequate ☐ Poor

Speakers:

x ☐ Excellent ☐ Adequate ☐ Poor

3. Would you recommend this seminar to a colleague?

x ☐ Definitely ☐ Maybe ☐ No

4. What were the strong points of this seminar?

___ The presenters were very knowledgeable about the metering and the application of metering.

5. How could this seminar have been improved?

___ The objectives of the metering needs to be discussed more and also human/meter interaction. I would also like to see a better business case presented for metering.

6. Please complete the following: "One comment I'd like to make about this program is:

. The meter information has to be acted upon to produce any real savings. Technology won't do it alone. Maintenance budgets and manpower remain a constraint. I would like to see a positive rather than punitive incentive at our sites to purchase meters and use the meters to reduce energy costs.

6. My Occupation is best described as:

x ☒ DOE Energy Management Team member

☐ Facility Manager

☐ Energy Engineer

☐ Property Manager

☐ Operations and Maintenance Manager

☐ Federal or Military Procurement Official

☐ Other: _____

7. Any other comments?

____ Any way you can make this form friendlier to use? ____

8. May we use your comments in future promotional materials?

x ☒ Yes

☐ No

Your Name(optional): _____ Will Lintner _____

Agency (optional): DOE _____

Please leave this at the registration desk.

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☐ Adequate

☐ Poor

Speakers:

☒ Excellent

☐ Adequate

☐ Poor

3. Would you recommend this seminar to a colleague?

☒ Definitely

☐ Maybe

☐ No

4. What were the strong points of this seminar?

- real world examples + experience dump
- good start

5. How could this seminar have been improved?

- incorporate expertise on metering

planning + valuation (evaluation of benefits)

- wider range of vendors & services, but
not enough time in 1-day session

6. Please complete the following: "One comment I'd like to make about this program is:

How do you help agencies understand how to
start and proceed effectively."

(over)

7. My Occupation is best described as:

☐ Energy Management Team

☐ Facility Manager

☐ Energy Engineer

☐ Property Manager

☐ Operations and Maintenance Manager

☐ Federal or Military Procurement Official

☒ Other: DOE lab

8. Any other comments?

9. May we use your comments in future promotional materials?

☒ Yes

☐ No

Your Name(optional): _____

Agency (optional): _____

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☐ Excellent

☒ Adequate

☐ Poor

Speakers:

☐ Excellent

☒ Adequate

☐ Poor

3. Would you recommend this seminar to a colleague?

☒ Definitely

☐ Maybe

☐ No

4. What were the strong points of this seminar?

WELL ROUNDED SCHEDULE IN PROPER ORDER

5. How could this seminar have been improved?

~~THE TOPIC IS BOTH~~

6. Please complete the following: "One comment I'd like to make about this program is:

THE TOPIC IS FOR BOTH - THE ENERGY PROGRAM
MANAGER AND ALSO THE VERY TECHNICAL ."

MAY NEED TO SEPARATE THIS AT LATER DISCUSSIONS
TOPICS — HOW TO DEVELOP A METERING PROGRAM
AND IMPLEMENT
HOW TO SELECT PROPER HARDWARE

(over)

7. My Occupation is best described as:

☐ Energy Management Team

☐ Facility Manager

☐ Energy Engineer

☐ Property Manager

☐ Operations and Maintenance Manager

☐ Federal or Military Procurement Official

☐ Other: _____

8. Any other comments?

9. May we use your comments in future promotional materials?

☐ Yes

☐ No

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Agency (optional): _____

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☐ Adequate

☐ Poor

Speakers:

☒ Excellent

☐ Adequate

☐ Poor

3. Would you recommend this seminar to a colleague?

☒ Definitely

☐ Maybe

☐ No

4. What were the strong points of this seminar?

case studies

5. How could this seminar have been improved?

es:
mfg handouts / more high end vendors - eg. Schlumberger
& electronic version of handouts

6. Please complete the following: "One comment I'd like to make about this program is:

I'd like more detail, but then it would have been
too long.

(over)

7. My Occupation is best described as:

☐ Energy Management Team

☐ Facility Manager

☒ Energy Engineer

☐ Property Manager

☐ Operations and Maintenance Manager

☐ Federal or Military Procurement Official

☐ Other: _____

8. Any other comments?

9. May we use your comments in future promotional materials?

☐ Yes

☐ No

Your Name(optional): _____

Agency (optional): _____

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☒ Adequate

☐ Poor

Speakers:

☒ Excellent

☐ Adequate

☐ Poor

3. Would you recommend this seminar to a colleague?

☒ Definitely

☐ Maybe

☐ No

4. What were the strong points of this seminar?

~~THE~~ AFTERNOON SPEAKERS

5. How could this seminar have been improved?

OUTSIDE

PROVIDE / IDENTIFY ~~DATA~~ SOURCES
OF INFORMATION ON METERING.

6. Please complete the following: "One comment I'd like to make about this program is:

VENDORS

AVOID ~~UNWANTED~~ APPS, BEST PART WAS
USEFUL ~~THE~~ CASE STUDIES. HAVE INDUSTRY
EXPERT / ANALYST DISCUSS NEW TRENDS / TECHNOLOGIES

(over)

☒ Energy Management Team

☐ Facility Manager

☐ Energy Engineer

☐ Property Manager

☐ Operations and Maintenance Manager

☐ Federal or Military Procurement Official

☐ Other: _____

8. Any other comments?

9. May we use your comments in future promotional materials?

~~Yes~~

☒ No

Your Name(optional): SCOTT MOULDSWORTH

Agency (optional): ELG, INC. HEADQUARTERS,
U.S. MARINE CORPS

Please leave this at the registration desk.

APPEALS
~~WHAT WE~~
ARE TALKING ABOUT GOES BEYOND
JUST PREPARING, BUT THE ~~THE~~
HARDWARE / SOFTWARE NEEDED TO
SUPPORT THE READING, ~~AND~~ ANALYSIS, AND CONTROL
OF THE ~~MANUALS~~. ~~TO~~ TO INTERNET ETC.
INFORMATION COLLECTED.

Evaluation Form

ISOLUS
✓

Advanced Metering Seminar Evaluation Form

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Length:

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☒ Adequate

☐ Poor

Speakers:

☒ Excellent

☐ Adequate

☐ Poor

3. Would you recommend this seminar to a colleague?

☒ Definitely

☐ Maybe

☐ No

4. What were the strong points of this seminar?

Qualified SPEAKERS / ORGANIZATION

5. How could this seminar have been improved?

THE DATA/INFORMATION ON HANDOUTS/SLIDES (SOME) WERE DIFFICULT TO READ - (REDUCED TOO MUCH IN SIZE)

6. Please complete the following: "One comment I'd like to make about this program is:

I WAS IMPRESSED WITH THE SPEAKERS & THEIR CREDENTIALS. THEY ALL PROVIDED GOOD, COMMON SENSE INFORMATION ABOUT SUBJECT MATTER.

(over)

7. My Occupation is best described as:

☐ Energy Management Team

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☒ Property Manager

☐ Operations and Maintenance Manager

☐ Federal or Military Procurement Official

☐ Other: _____

8. Any other comments?

THANKS FOR INCLUDING THE IRS IN THIS
SEMINAR. I WILL TAKE THIS INFORMATION
FORWARD & SHARE WITH OTHERS IN THE ORGANIZATION.

9. May we use your comments in future promotional materials?

☒ Yes

☐ No

Your Name(optional): RON VAN GENDEREN

Agency (optional): INTERNAL REVENUE SERVICE

Please leave this at the registration desk.

7/18/02

Evaluation Form

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☒ Adequate

☐ Poor

Speakers:

☒ Excellent

☐ Adequate

☐ Poor

3. Would you recommend this seminar to a colleague?

☒ Definitely

☐ Maybe

☐ No

4. What were the strong points of this seminar?

• Product Info

• Strong sense of payback history but no prior justification

5. How could this seminar have been improved?

• Good Start Next time more

Good Start period!

6. Please complete the following: "One comment I'd like to make about this program is:

(over)

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9. May we use your comments in future promotional materials?

☒ Yes

☐ No

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☐ Too long

Handouts:

☐ Excellent

☒ Adequate

☐ Poor

Speakers:

☐ Excellent

☒ Adequate

☐ Poor

3. Would you recommend this seminar to a colleague?

☒ Definitely

☐ Maybe

☐ No

4. What were the strong points of this seminar?

Case Studies gave good concrete examples

5. How could this seminar have been improved?

• Actual sample hardware

• Address funding issues (how to afford them)

6. Please complete the following: "One comment I'd like to make about this program is:

I would like to have gotten an idea on how to pay for installing the ~~meter~~ metering systems."

(over)

7. My Occupation is best described as:

☒ Energy Management Team

☐ Facility Manager

☐ Energy Engineer

☐ Property Manager

☐ Operations and Maintenance Manager

☐ Federal or Military Procurement Official

☐ Other: _____

8. Any other comments?

9. May we use your comments in future promotional materials?

☐ Yes

☐ No

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Agency (optional): _____

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Organization:

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☒ Too short

☐ Too long

Handouts:

☐ Excellent

☒ Adequate

☐ Poor

Speakers:

☒ Excellent

☐ Adequate

☐ Poor

3. Would you recommend this seminar to a colleague?

☒ Definitely

☐ Maybe

☐ No

4. What were the strong points of this seminar?

Good download of current technologies.

Good to hear case histories.

5. How could this seminar have been improved?

6. Please complete the following: "One comment I'd like to make about this program is:

Hopefully the information presented will be productively used to influence policy (i.e., don't do anything stupid → don't go overboard or go too fast)."

(over)

☐ Energy Management Team

☐ Facility Manager

☒ Energy Engineer

☐ Property Manager

☐ Operations and Maintenance Manager

☐ Federal or Military Procurement Official

☐ Other: _____

8. Any other comments?

9. May we use your comments in future promotional materials?

☐ Yes

☐ No

Your Name(optional): _____

Agency (optional): _____

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☐ Too long

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☐ Excellent

☒ Adequate

☐ Poor

Speakers:

☒ Excellent

☐ Adequate

☐ Poor

3. Would you recommend this seminar to a colleague?

☐ Definitely

☒ Maybe

☐ No

4. What were the strong points of this seminar?

Success stories

5. How could this seminar have been improved?

DOE POSITION ON METERING AND FEDERAL
GOVT (DOE) SUCCESS STORIES WITH RESPECT TO
METERS. I EXPECT DOE TO BE THE "EXPORTS"
IN THIS FIELD

6. Please complete the following: "One comment I'd like to make about this program is:

INDIVIDUAL VENDORS SHOULD NOT BE PRESENTING.
EXPORTS IN FIELD SHOULD PROVIDE OVERVIEW
OF AVAILABLE TECHNOLOGIES"

(over)

- ☐ Energy Management Team
- ☐ Facility Manager
- ☐ Energy Engineer
- ☐ Property Manager
- ☐ Operations and Maintenance Manager
- ☒ Federal or Military Procurement Official
- ☐ Other: _____

8. Any other comments?

A GOOD PROGRAM

9. May we use your comments in future promotional materials?

☒ Yes

☐ No

Your Name(optional): KEN TURNER

Agency (optional): USN

Please leave this at the registration desk.

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☐ Good

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☐ Too long

Handouts:

☐ Excellent

☒ Adequate

☐ Poor

Speakers:

☒ Excellent

☐ Adequate

☐ Poor

3. Would you recommend this seminar to a colleague?

☒ Definitely

☐ Maybe

☐ No

4. What were the strong points of this seminar?

INFO ON METERING

5. How could this seminar have been improved?

6. Please complete the following: "One comment I'd like to make about this program is:

GOOD PROGRAM ON METERING.

METERING IS A GOOD TOOL IN ENERGY CONSERVATION

BUT WHEN APPLIED ACROSS THE BOARD CAN

WASTE A LOT OF FUNDS BECAUSE OF ITS COMPLEXITY.

(over)

☒ Energy Management Team

☐ Facility Manager

☐ Energy Engineer

☐ Property Manager

☐ Operations and Maintenance Manager

☐ Federal or Military Procurement Official

☐ Other: _____

8. Any other comments?

Pls SEE No. 6

9. May we use your comments in future promotional materials?

☐ Yes

☐ No

Your Name(optional): _____

Agency (optional): _____

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☐ Poor

Speakers:

☒ Excellent

☐ Adequate

☐ Poor

3. Would you recommend this seminar to a colleague?

☒ Definitely

☐ Maybe

☐ No

4. What were the strong points of this seminar?

CASE STUDIES ADDED A LOT OF REAL WORLD EXPERIENCE
SPEAKERS DID NOT GIVE "SALES PITCHES")

5. How could this seminar have been improved?

- ON-LINE WEB DEMOS WOULD BE HELPFUL

- ASSUMES HIGH DEGREE OF KNOWLEDGE WITH
ELECTRICAL & IT TERMS.

- FOCUS THE SPEAKERS ON THE NEEDS OF THE AUDIENCE.

6. Please complete the following: "One comment I'd like to make about this program is:

MAKE AN EFFORT TO KEEP ALL TALKS
TIGHTLY FOCUSED ON TOPIC OF METERING
FEDERAL BUILDINGS

- HOW TO GET STARTED DESIGNING A PROGRAM

- HOW TO FUND A PROGRAM.

Need to focus on metering as a service, not just
the initial hardware expense & installation.

- data collection, analysis, reporting & archiving

7. My Occupation is best described as:

- ☒ Energy Management Team
☐ Facility Manager
☐ Energy Engineer
☐ Property Manager
☐ Operations and Maintenance Manager
☐ Federal or Military Procurement Official
☐ Other: _____

8. Any other comments?

*Best 1st attempt at a meeting workshop.
Step down a notch + emphasize program
design, management + implementation.*

9. May we use your comments in future promotional materials?

☒ Yes ☐ No

Your Name(optional): Richard Wickman

Agency(optional): NASA

Please leave this at the registration desk.

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☐ Poor

3. Would you recommend this seminar to a colleague?

☒ Definitely

☐ Maybe

☐ No

4. What were the strong points of this seminar?

Case Studies

5. How could this seminar have been improved?

If it had a couple of SCADA

vendors present and Additional Metering MFG.
Competitors like GE & cutler Hammer Brasit

6. Please complete the following: "One comment I'd like to make about this program is:

well presented & Managed

(over)

7. My Occupation is best described as:

☐ Energy Management Team

☐ Facility Manager

☐ Energy Engineer

☐ Property Manager

☐ Operations and Maintenance Manager

☐ Federal or Military Procurement Official

☒ Other: Senior Electrical Engineer

8. Any other comments?

9. May we use your comments in future promotional materials?

☒ Yes

☐ No

Your Name(optional): Reza Safari

Agency(optional): NIH

Please leave this at the registration desk.

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(over)

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☐ Property Manager

☐ Operations and Maintenance Manager

☐ Federal or Military Procurement Official

☒ Other: HA Leadership

8. Any other comments?

9. May we use your comments in future promotional materials?

☐ Yes

☐ No

Your Name(optional): _____

Agency (optional): _____

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☐ Poor

Speakers:

☒ Excellent

☐ Adequate

☐ Poor

3. Would you recommend this seminar to a colleague?

☒ Definitely

☐ Maybe

☐ No

4. What were the strong points of this seminar?

COVERING THE SPECTRUM w/ MEANS
& METHODS

5. How could this seminar have been improved?

- METERING BASICS ARE NOT WIDELY
UNDERSTOOD. A ONE HR OVERVIEW
WOULD BE HELPFUL.

6. Please complete the following: "One comment I'd like to make about this program is:

(over)

7. My Occupation is best described as:

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☐ Operations and Maintenance Manager

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☐ Other: _____

8. Any other comments?

9. May we use your comments in future promotional materials?

☐ Yes

☒ No

Your Name(optional): Leonard Abercrombie

Agency(optional): NDW

Please leave this at the registration desk.

Evaluation Form

Advanced Metering Seminar Evaluation Form

Thank you for attending. We hope it's been a learning experience for you. You can help us serve you even better in the future by giving us your candid observations on this seminar. Your comments will allow us to tailor future sessions to the needs of our participants.

1. Overall, I rate this training seminar as:

☒ Excellent

☐ Good

☐ Poor

2. Please check the appropriate response:

Objective: Increasing awareness of advanced metering.

☒ Accomplished

☐ Partially

☐ No

Organization:

☒ Excellent

☐ Adequate

☐ Poor

Length:

☒ Just Right

☐ Too short

☐ Too long

Handouts:

☒ Excellent

☐ Adequate

☐ Poor

Speakers:

☒ Excellent

☐ Adequate

☐ Poor

3. Would you recommend this seminar to a colleague?

☒ Definitely

☐ Maybe

☐ No

4. What were the strong points of this seminar?

Good, useful information.
"Lessons Learned" very valuable.
Descriptions of new capabilities very useful.

5. How could this seminar have been improved?

Keep on schedule.

6. Please complete the following: "One comment I'd like to make about this program is:

Very timely topic and salient information."

(over)

☐ Energy Management Team

☐ Facility Manager

☒ Energy Engineer

☐ Property Manager

☐ Operations and Maintenance Manager

☐ Federal or Military Procurement Official

☐ Other: _____

8. Any other comments?

Best workshop I've seen this year.
Good job recruiting knowledgeable speakers.

9. May we use your comments in future promotional materials?

☒ Yes

☐ No

Your Name(optional): Andy Walker

Agency (optional): NREL

Please leave this at the registration desk.

Evaluation Form

Attachment 3:

Peer to Peer Workshop

EnergyCrossTalk 2001

On January 22-24, 2001, a select group of Federal Energy Managers will convene in Orlando Florida for an open exchange of ideas critical to successful energy management. "Energy Cross Talk-2001" is cosponsored by the U.S. General Services Administration and the U.S. Department of Energy in cooperation with the Alliance to Save Energy and is hosted by Armstrong Service, Inc.

WHAT IS ENERGY CROSS TALK - 2001?

"Energy Cross Talk - 2001" is a comprehensive, off-the-record gathering of senior level energy managers. It is patterned after a very successful private sector energy forum, which has generated candid discussions on energy efficiency for corporate America. This peer-to-peer exchange will highlight ideas that you can implement in the programs you manage.

WHAT IS THE PEER-TO-PEER FORMAT?

Invitees will deliver a 7-10 minute presentation on one aspect of their energy program, followed by a short Q&A session. A professional facilitator will keep discussions moving and focused. You are invited to be a part of this select group.

WHAT MAKES THIS EVENT DIFFERENT?

- Participants can learn from their peers and private sector counterparts
- The atmosphere of non-attribution

encourages candid discussions

- Attendance is by invitation only
- The "expert speakers" are actually the participants themselves
- Participants determine the discussion topics

WHAT TOPICS MAY BE ADDRESSED?

The choice is yours. Here are some possible topics:

- Energy efficiency technologies
- EO 13123 implementation issues
- Innovative energy management programs
- Unique approaches
- Communicating with, and securing top management support
- Alternative financing approaches and issues
- What works and what does not
- Experience with specific technology applications

CAN ANYONE ATTEND?

No. We are limiting attendance to allow sufficient time for discussions and to encourage open peer exchange. Attendees will be selected based upon their experience and background to encourage the maximum practicable mix of ideas. You will be notified by December 15 of your acceptance. We have blocked rooms at the government rate of \$79 per night at the Rosen Centre Hotel on Orlando's famed International Drive. This rate is available before, during, and after the conference. Your acceptance letter will detail exactly how to make your hotel reservation and receive this special rate.

IS THERE A COST?

Yes. The cost is \$85 to cover direct expenses. This fee includes the following:

- Daily transportation to/from hotel and conference center
- Welcome Dinner, breakfasts, and lunches
- Morning and afternoon breaks
- Printed materials

January 22-24, 2001
Rosen Centre Hotel
Orlando, Florida

Sponsored By:
DOE Federal Energy Management Program
GSA Public Buildings Service
In cooperation with:
Alliance to Save Energy
Hosted by:
Armstrong Service, Inc.

Energy CrossTalk 2001 A Peer-to-Peer Exchange

WHAT ENERGY MANAGERS SAID ABOUT PAST PEER-TO-PEER EXCHANGES

Beth Shearer, *Director, DOE Federal Energy Management Program*

"Often the most valuable part of a conference is the time spent networking with other energy managers, sharing stories, and discussing problems. I encourage you to participate in Energy CrossTalk 2001, a new meeting approach that provides one and a half days for senior energy managers to talk about the issues that are most important to them and get feedback from their peers."

Millard E. Carr, P.E., *Former Director of Energy and Engineering, Office of the Secretary of Defense*

"The peer-to-peer format provides the most practical way to learn energy management. It gives you the chance to talk with someone who shares your objectives and constraints which helps to solve common problems."

Steven Schultz, *Engineering Specialist and Team Leader, 3M Company*

"I have been attending the Armstrong Energy Council meetings for several years. Each year I get new ideas and insights on subjects that help me manage the energy management program at my company."

Doug Bloss, *President, Armstrong Service, Inc.*

"For twenty years, our company has hosted a similar peer-to-peer exchange for industry energy managers. They enthusiastically return each year and endorse it with comments such as: 'overall the best forum I have attended for exchanging energy ideas'. We invite energy managers to join in this innovative exchange of ideas that has proved highly successful in industry."

PRELIMINARY AGENDA:

Monday, January 22 –*Arrival at Orlando's Rosen Centre Hotel*

9am-2pm	Optional site visit: Cape Canaveral Energy Program
3-4pm	Transportation from hotel to conference center
4-5pm	Registration
	Reception with cash bar
5-6pm	Meet and Greet – facilitated ice-breaker session
6-6:30pm	Dinner (Included in registration fee)
6:30-6:40pm	Review of agenda and process
6:40-7pm	Welcome to Orlando
	Mark W. Ewing, Director, GSA Energy Center of Expertise
	Beth Shearer, Director, DOE Federal Energy Management Program
	Harry Kaufman, Johnson and Johnson
7:45pm	Transportation to Rosen Centre Hotel

Tuesday, January 23

7:45am	Shuttle departs for conference center
8-8:30am	Late registration
	Continental breakfast
8:30-9am	Get Energized
	Industry Panelists share their experiences with peer-to-peer meeting format
	Panel hosted by Doug Bloss, President, Armstrong Service, Inc.
9-10:15am	CrossTalk Session I (5 participants present)
10:15-10:30am	Break
10:30-12pm	CrossTalk Session II (6 participants present)
12-1pm	Networking Lunch/Cracker Barrel
1-2:15pm	CrossTalk Session III (5 participants present)
2:15-2:30pm	Break
2:30-3:45pm	CrossTalk Session IV (5 participants present)
3:45-4pm	Wrap-up
4 - 5pm	Reception
5:15pm	Shuttle to hotel
	Dinner on your own

Wednesday, January 24

7:45am	Shuttle departs for conference center
	Luggage secured at conference center
8-8:30am	Breakfast
8:30-9am	Insights: Energy Management in the New Administration –
	David Nemtsov, President, Alliance to Save Energy, Invited
9-10:15am	CrossTalk Session V (5 participants present)
10:15-10:30am	Break
10:30-11:45pm	CrossTalk Session VI (5 participants present)
11:45-12:15pm	Wrap-up and Meeting Evaluation
12:30pm	Transportation to airport

MAY WE TAPE-RECORD THE SESSIONS?

No. This might inhibit openness and candor. However, we encourage you to take personal notes that you can use upon your return to your office. In addition, we will provide handouts when appropriate.

HOW CAN I REGISTER FOR THIS EVENT?

There are four ways:

1. INTERNET registration can be found at <http://www.cmpinc.net/energycrosstalk>
2. FAX your Registration Form to (703) 536-4991
3. MAIL your Registration Form to Capital Meeting Planning, Inc. 6521 Arlington Blvd., Suite 505, Falls Church, VA 22042
4. PHONE your information to conference registrar, Matt Burdelsky at (703) 536-4993

You will be notified by December 15 of your acceptance to this event. Since attendance is so limited, early registration will help secure your participation.

WILL I HAVE TO RENT A CAR?

No. Save your travel dollars and help us promote green meeting principles by not renting a vehicle. After you take the van or cab from the Airport to the hotel, we will provide transportation to/from the conference center, the off-site tour, and to the airport at the end of your stay.

WHAT DO I WEAR?

Business casual - no ties, please, at any time.

CANCELLATIONS:

Cancellations must be received by January 10, 2001. After this date refunds will not be issued. However, you may send a substitute in your place.

REGISTRATION FORM (you may also register online at <http://www.cmpinc.net/energycrosstalk>)

First Name: _____

Last Name: _____

Name for Badge: _____

Title: _____

Organization: _____

Address: _____

City: _____ State: _____ Zip: _____ Country: _____

Telephone: _____

Fax: _____

E-Mail Address: (Required): _____

Payment Method: ☐ MasterCard ☐ Visa ☐ American Express ☐ Check payable to: Capital Meeting Planning, Inc.

mail check to: 6521 Arlington Blvd., Suite 505, Falls Church, VA 22042

Credit Card Number: _____ Expiration Date: _____ Name on Credit Card: _____

Credit Card Holder's Signature: _____

Summary of Discussion Topic (50 words maximum) _____

**Boeing Tour
Included!**

Energy Cross Talk - 2002

A Peer-to-Peer Exchange

January 28 - 30, 2002
Sheraton Seattle Hotel and Towers
Seattle, Washington

Co-Sponsored By: U.S. Department of Energy Federal Energy Management Program, U.S. General Services Administration and U.S. Department of Defense in cooperation with the Alliance to Save Energy

Third Decade of Leadership
SAVE ENERGY
ALLIANCE TO

FEMP

**Energy Center of
Expertise**

What Energy Managers Have Said About Past Peer-to-Peer Exchanges

Beth Shearer, Director, DOE Federal Energy Management Program: "Often the most valuable part of a conference is the time spent networking with other energy managers, sharing success stories, and discussing problems. I encourage you to participate in Energy Cross Talk-2002, a new meeting approach that provides one and a half days for senior energy managers to talk about the issues that are most important to them and get feedback from their peers."

**Walker Lee Evey, Pentagon Renovation Program Manager,
Office of Assistant Secretary of Defense:**

"The peer-to-peer format provides the most practical way to learn energy management. It gives you the chance to talk with someone who shares your objectives and constraints, which helps to solve common problems."

Steven Schultz, Engineering Specialist and Team Leader, 3M Company:

"I have been attending the Armstrong Energy Council meetings for several years. Each year I get new ideas and insights on subjects that help me manage the energy management program at my company."

Brian K. Magden, Regional Energy Coordinator, General Services Administration, Northeast and Caribbean Region:

"Of the scores of energy conferences I have attended, Energy Cross Talk 2001 stands out as a real winner. I learned the importance of networking, partnering, and exchanging ideas with energy associates in a secure, informal learning environment."

Energy Cross Talk - 2002

A Peer-to-Peer Exchange

On January 28-30, 2002, a select group of Federal Energy Managers will convene at the Sheraton Seattle Hotel and Towers in Seattle, Washington for an open exchange of ideas critical to successful energy management. **Energy Cross Talk - 2002** is co-sponsored by the U.S. General Services Administration (GSA), U.S. Department of Energy (DOE) and U.S. Department of Defense (DOD) in cooperation with the Alliance to Save Energy.

What Is Energy Cross Talk - 2002?

Energy Cross Talk - 2002 is a comprehensive, off-the-record gathering of experienced energy managers. This is our second peer-to-peer workshop. Like its predecessor workshop last January in Orlando, Florida, **Energy Cross Talk - 2002** is patterned after very successful private sector energy forums that have generated candid discussions on energy efficiency for corporate America. *This peer-to-peer exchange will highlight ideas that you can implement in the programs you manage.*

What Is The Peer-To-Peer Format?

A limited number of attendees will be asked to deliver 15-minute presentations on one aspect of their energy program, followed by a short question & answer session. A professional facilitator will keep discussions moving and focused. We invite you to be a part of this group.

While only selected attendees will be asked to make presentations, all attendees are encouraged to share their views and experience on the topics in a round table discussion after each presentation.

Who Will Be Asked to Make a Presentation?

As part of the registration form, each attendee is asked to submit a brief summary of a topic he or she would like to present. Presenters will be selected from the submissions received. Due to limited time together, **only 21 attendees** will be selected to make presentations. **We will be notify you by December 7th if your presentation has been selected.**

What Topics May Be Addressed?

This year we have divided the possible topics into four major areas:

Financing

Alternative financing approaches, determining the cost of financing approaches, alternative financing pros and cons, convincing management to purchase/finance energy management projects, fast track financing for energy efficiency projects, etc.

Technology

Pros and cons of using alternate, renewable, and distributed energy resources. Experiences using specific energy efficient and water conservation technologies. What seems to work and not work?

Management Support

Meeting Executive Order 13123 mandates with limited financial and management support, selling senior management on energy and resource efficiency projects, innovative energy management programs, fast tracking energy management projects, etc.

Energy Security

Diversity of energy supplies and suppliers, technologies for a more secure local energy supply, energy efficiency's role in energy security locally, developing and energy supply security plan locally, etc.

What Makes This Event Different?

- *Participants learn from their peers and private sector counterparts*
- *Ample time is included to network with your peers*
- *The non-attribution atmosphere promotes candor*
- *Attendance is by invitation only*
- *The "expert speakers" are actually the participants themselves*
- *Participants determine the discussion topics*

Can Anyone Attend?

No. We are limiting attendance to allow sufficient time for discussions and to encourage open peer exchange. Attendees will be selected based on their experience, background, and suggested topic to encourage the maximum practicable mix of ideas. *You will be notified by December 7th of your acceptance.*

Is There a Cost?

Yes. *The \$150 registration fee includes the following:*

- Welcome reception with cash bar
- Full welcome dinner
- Two full breakfasts
- Seated lunch with guest speaker
- All morning and afternoon breaks
- All printed materials
- Fully-facilitated sessions each day
- Tour of the Boeing Aircraft Facility

Where will Energy Cross Talk- 2002 occur?

We have reserved a block of rooms at the government rate of **\$109 per night, plus tax**, at the Sheraton Seattle Hotel and Towers located in Downtown Seattle. This hotel is within walking distance of the historic Pike Street Market, the Seattle Space Needle and the beautiful Seattle waterfront. *Your acceptance letter will explain how to make your hotel reservation and receive this special rate.*

Getting to the hotel:

Shuttle Express will take you to the hotel from the Seattle-Tacoma Airport, for about \$23. Ask for directions at the Shuttle Express Counter. Travel time is approximately 35 minutes. Taxis are available for about \$35.

How Can I Register for This Event?

There are four ways:

1. **INTERNET** registration can be found at <http://www.cmpinc.net/energycrosstalk2002>
2. **FAX** your Registration Form to: 703.536.4991
3. **MAIL** your Registration Form to: Capital Meeting Planning, Inc., 6521 Arlington Blvd., Suite 505, Falls Church, VA 22042
4. **PHONE** your information to conference registrar, Matt Burdetsky at 703.536.4993

PLEASE REGISTER NO LATER THAN NOVEMBER 30TH.

You will be notified by December 7th of your acceptance to this event. Since attendance is limited, early registration will help secure your participation.

May we tape-record the sessions?

No. This might inhibit openness and candor. However, we encourage you to take personal notes that you can use upon your return to your office. In addition, we will provide handouts when appropriate.

Cancellations:

Cancellations must be received by January 10, 2002. After this date, refunds will not be issued. However, you may send a substitute in your place.

What do I wear?

Business casual. No ties, please, at any time!

SPECIAL WASHINGTONS INSIDER'S ENERGY REPORT

The Alliance to Save Energy is a coalition of prominent business, government, environmental, and consumer leaders who promote the efficient and clean use of energy worldwide to benefit consumers, the environment, and national security.

We are fortunate to have

David M. Nemtsov, President of the Alliance to Save Energy, as our the Keynote Speaker

As a spokesperson for the Alliance, David Nemtsov regularly speaks about energy and energy efficiency issues at national and international forums, in the national media, trade publications, and in testimony before Congress and federal and state agencies. His work with Congress, the Administration, business, and outside constituencies has helped bring about positive changes in government activities to expand U.S. and global markets for energy efficiency.

Preliminary Agenda

Monday, January 28th

Arrival at Sheraton Seattle Hotel before 2 PM

2:00 – 3:00 PM *Registration and Networking*

3:00 – 4:00 PM *Welcome*
History, Logistics, Vision
Mark W. Ewing, Director, GSA,
Energy Center of Expertise
Beth Shearer, Director, DOE,
FEMP
Ralph E. Newton, DOD,
Deputy Director, Real Estate
and Facilities, Washington
Headquarters Services
Moderator: Millard Carr
Alliance to Save Energy

4:00 – 5:00 PM *CrossTalk Session I*
(3 Participants Present)

5:00 – 5:45 PM *Meet and Greet*
Facilitated Ice Breaker

6:00 – 6:45 PM *Dinner on site*
(included in fee)

6:45 – 7:15 PM *Keynote Speaker*
"National Energy Policy and
Energy Security"
David Nemtsov
President
Alliance to Save Energy

Tuesday, January 29th

7:30 – 8:30 AM

Breakfast
Speaker
Northwest Energy
Efficiency Council

8:30 – 9:30 AM

Presentation
"Get Energized"
Panel Discussion
(3 Participants)

9:30 – 9:50 AM

CrossTalk Session II
Presentation

9:50 – 10:15 AM

CrossTalk Session III
Presentation

10:10 – 10:40 AM

Break

10:40 – 11:00 AM

CrossTalk Session IV
Presentation

11:00 – 11:20 AM

CrossTalk Session V
Presentation

11:20 – 11:40 AM

CrossTalk Session VI
Presentation

11:40 – 12:00 PM

CrossTalk Session VII
Presentation

12:00 NOON

Networking Lunch
Table Topics will be Provided

1:00 – 2:20 PM

CrossTalk Session VIII
(3 Participants Present)

2:20 – 2:40 PM

Break

2:40 – 4:00 PM

CrossTalk Session IX
(3 Participants Present)

January 28th - 30th

Wednesday, January 30th

7:00 - 7:30 AM	Breakfast
7:30 - 8:30 AM	CrossTalk Session X (3 Participants Present)
8:30 - 9:30 AM	CrossTalk Session XI (4 Participants Present)
9:30 - 10:00 AM	Break
10:00 - 10:30 AM	Open Mike The Real Barriers to Energy Management (on cards) Anonymous
10:30 - 11:00 AM	Wrap-Up What Did I Learn? Room for Improvement? Suggestions for Cross Talk-2003 San Antonio, TX
12:00 - 6:00 PM	Depart for Boeing Energy Tour (included in fee) Note: If you plan to take the Boeing Tour, arrange to leave Seattle the following day.

BOEING PRESENTS:

Jumbo Building...Jumbo Energy Challenge...Jumbo Jets.

We'll end our last day with a VIP tour of the Boeing Aircraft Plant in Everett Washington. Boeing's energy managers have graciously offered to escort us through one of the largest buildings in the world, as we learn how their Energy Professionals promote energy efficiency while keeping these huge birds in production. This tour, plus transportation to and from the plant, is included in your registration fee and should not be missed.

Boeing's Everett Facility

The Boeing Company announced in 1966 that it would build the world's largest jet airliner, the 747. This would require the company to construct an equally impressive manufacturing complex. The complex is recognized by the Guinness Book of World Records as the largest building in the world by volume. The building has grown over the years to enclose 472 million cubic feet of space. Its footprint covers 98.3 acres and houses assembly for Boeing wide-body aircraft -- the 747, 767, and 777.

The Boeing Company began conducting tours of the Everett facility in 1968, the year it rolled out the first 747. During 1998, it celebrated it's 30th anniversary and welcomed it's two millionth visitor to the Tour Center. In 1968, over 39,000 visitors toured the facility that was building the largest airplane in the world in the largest building in the world. This year, about 140,000 people will visit the Boeing plant. Boeing's Everett tour is one of the more popular tourist attractions in Washington state.

Some of the Everett factory's most notable visitors include: U.S. President Bill Clinton; U.S. Vice President Al Gore; Russian President Boris Yeltsin; Chinese President Jiang Zemin; President Soeharto of Indonesia; Prime Minister Paul Keating of Australia; Prime Minister Mahathir bin Mohamad of Malaysia; President Ion Iliescu of Romania; Prince Philippe of Spain; President Meri of Estonia; King Hussein of Jordan; His Royal Highness Prince Andrew, The Duke of York, and President Michal Kovac of Slovakia, and now you can join the list.

**Register online at www.cmpinc.net/energycrosstalk2002
or Fax this Form to 707.536.4991...or Phone your Registration to 703.536.4993**

First Name Last Name Badge Name

Title

Agency / Organization

Address

City State Zip Code

Phone Number Fax Number

Email Address

Special Needs, please indicate above.

In the event of Emergency, please contact:

Name: Day Phone Number: Evening Phone Number:

Payment Method: \$150 ☐ American Express ☐ MasterCard ☐ Visa ☐ Check

FED ID#
54-1950092

The credit card charge will be to Capital Meeting Planning, Inc. Make checks payable to Capital Meeting Planning, Inc., 6521 Arlington Blvd., Suite 505, Falls Church, VA 22042

Name on Credit Card

Credit Card Number Expiration Date

Summary of Proposed Presentation Topic (50 words maximum)

☐ PLEASE RESERVE SPACE FOR ME ON THE BOEING TOUR

Atlanta FEMP M&V Workshop Attendees

Oct-01

First Name	Last Name	Organization	Phone number	E-mail
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Presenters

Bill	Chvala	Pacific Northwest National Laboratory	509-372-4558	william.chvala@pnl.gov
Bob	Kennedy	Sempra Energy Solutions	518-783-8300	bkennedy@abl.sempra_esco.com
Gerry	Kuhel	Johnson Controls, Inc.	414-524-5212	gerry.j.kuhel@jci.com
Satish	Kumar	Lawrence Berkley National Lab	202-646-7953	s_kumar@lbl.gov
Don	Millstein	E-mon	800-334-3666	dmillstn@emon.com
Mark	Stetz	NREL/Nextant	970-385-4932	mstetz@nextant.com
Dan	Turner	Texas A & M Energy Systems Lab	409-862-8480	dturner@esl.tamu.edu
Malcolm	Verdict	Alliance to Save Energy	202 530-2213	mverdict@ase.org

Federal Agencies

Liz	Exter	Lawrence Berkeley National Lab	510-486-4089	eaexter@lbl.gov
Lisa	Hollingsworth	FEMP Atlanta Office	404-562-0569	lisa.hollingsworth@ee.doe.gov
Danny	Orlando	Energy Star	404-562-9087	orlando.danny@epa.gov
Edward H.	Telfair	Maritime Administration	202-366-2812	edward.telfair@marad.dot.gov
Ab	Ream	U.S. Department of Energy	202-586-7230	ab.ream@ee.doe.gov

Military

Jim	Butts	Army MEDCOM	210-221-7071	James.butts@amedd.army.mil
David	Campbell	US NAVAL ACTIVITIES UNITED KINGDOM	44 + 01895 616274	campbell@cnauk.navy.mil
Catherine A.	Draper	Defense Logistics Agency	703-767-8757	cdraper@desc.dla.mil
Mark	Fleming	96 civil eng. Group	850-882-4055	fleming2@eglin.af.mil
Jesus R.	Gimenez	Fort Buchanan, Army	787-707-3508	gimenekj@usarso.army.mil
Robert	Jay	Public Works Ft Sam Houston	210-221-5300	ROBERT.JAY@CEN.AMEDD.ARMY.MIL
Lee	Merrill	Navy Public Works Center	904-542-3991	merrilllf@pwcjax.navy.mil
Freddy	Steele	Engineering & Support Center (UMCS-MCX)	256-895-1139	freddy.h.steele@usace.army.mil
Mark	Trimarchi	GSA,PBS, Special Service 7pms	817-978-2553	mark.trimarchi@gsa.gov
Jeff	Tucker	796CES/CEORE	850-882-3370	jeff.tucker@eglin.af.mil

Contractors

Victor	Bush	URS Corporation	303-740-2637	victor_bush@urscorp.com
India	Hoeschen-Stein	Select Energy Services, Inc.	508-653-0456	ihoeschen-Stein@selectenergysci.com
Brace	Kelly	Lockheed Martin Corp.	518-395-6946	kelley@kapl.gov
Paul	Martin	Martin Engineering	972-907-0065	pmartin430@aol.com
Gerald	Mimno	Div AES-Intellinet	978-535-7310	gmimno@aes-intellinet.com
Mark	Mullins	Select Energy Services	508-653-0456	mmullins@selectenergysci.com
Frame	Richards	Richards Energy Group	717-898-6330	frichards@richardsenergy.com

Other

Hamilton	McLean	New Hampshire Governors' Office	603-271-2570	hmclean@gov.state.nh.us
Virginia	Waik	City of Palo Alto	650-329-2168	virginia_waik@city.palo-alto.ca.us

Energy Cross Talk 2002
January 28-30
Seattle, WA

EVALUATION SUMMARY

31 Responses

1. What is your organizational affiliation?

Private Industry	3
Non-Profit Organization	1
State/Local Government	1
Federal Government	25
Consultant	1
NREL-Subcontractor	1

2. Were you satisfied with the format of the workshop?

Yes 30 **No** 1

Comments:

- Packed a lot in a short time.
- Subject areas & breakouts good.
- Need more interactions & discussion during the sessions among participants – how @ focus groups or a couple of round tables.
- Millard was excellent facilitator.
- Informal, good accommodations & food.
- Could be a bit more interactive. Also, a lot of the same from last year.
- Would like more time for speakers to answer questions from the floor.
- More time/presentation required.
- Yes, but need less speakers, more talk & Q&A.
- Need more time of Q&A after each presentation.
- Current format limits effective exchange of information.
- Very much so.

3. Were you satisfied with the presentation topics?

Yes 29 **No** 2

Comments:

- Wide range, well clustered.
- Thought Roman's type of presentations was excellent.
- Would like more discussion on how presenters overcame a certain problem, particular issue, not what they do in general. Less "dog & pony" (know that's hard to do).
- No. need more topics that present challenges, less success.
- Yes, but would like more "less formal" presentations.
- For the most part, but nothing new or innovative from last one & a lot of basic info on "old hat" subjects. Don't need to hear about T-8 replacements anymore.
- One was commercial – Geo Exchange.
- No. need to better cover: FLEET (auto, truck, specialty), plug load, working with tenants, and handouts on summarized financing opportunities.
- Very topical, informative, useful.

Energy Cross Talk 2002
January 28-30
Seattle, WA

4. Was the workshop sufficiently interactive?

Yes 23

No 8

Comments:

- Would have liked more time between speakers, rather than leaving it to the end. Many people had to leave before the open mike and missed out on that aspect.
- Too many presentations – would like to have more “round-table” discussions based on a particular problem-solving issue.
- Break times were good.
- Learned more & networked more than usual.
- Yes, but could have used more group discussions as opposed to presentations.
- Would like to see more of different exercises. Seemed like there was a greater diversity last year. Seemed like many of the same both years.
- Where are the rest of the DOE labs?
- No. Instead of a lecture format each table, led by a monitor, should be asked to focus on a topic. For example, table 1 would focus on the problems of deregulation i.e. obtaining data, customer retention, pricing, billing and market condition. After 8 hours of debate, table 1 would be expected to develop an action plan, which would overcome the aforementioned problems. After the action plan is developed, a representative from Table 1 would present its findings. Of course, the remaining tables would be given different topics to address, and perhaps, mirror table 1’s process and results.
- More time for questions.
- No. Need more interaction w/speakers.
- Need more time for Q&A after each presentation.
- No. Each participant should come with a problem to solve that they believe can be solved by the participants.
- Yes, but it became our responsibility to make sure we made follow-on contact with specific people.
- I thought presentations were balanced w/Q&A time.
- I would rather have a little more speaker time & less Q&A. In other words, squeeze in one more speaker. I thought the cross talk did this effectively.
- No. Would like more time allotted for questions after each presentation.
- No. More interaction with private industry.

Energy Cross Talk 2002

January 28-30

Seattle, WA

Please check the box that corresponds to your areas:

	Excellent	Good	Fair	Poor	N/A
Conference Materials	20	10	1		
Conference Registration	26	5			
Meeting Space	27	4			
Catering	26	5			

Comments:

- The tables might have been arranged into a more interactive shape (u-shaped).
- Would like to get away from the hard binder notebooks – how with no covers?
- Location much better than last year. Like having the meeting in the hotel not offsite.
- Catering – we could do some things to GREEN the conference.
- Well organized binder, handouts for all presentations!
- Superb conference & speaker support!!
- Very nice, attractive, functional meeting space – just perfect for this course.
- Good food!
- Papers on topics could have been provided in books.

Subject matter was adequately covered

Agree 30 **Disagree** 1

Comments:

- Facilitator needs to keep eye on audience & tell people to stop talking during others' presentations – very annoying.
- Millard is a good facilitator – keep him for next year.
- Disagree – too short time frame.
- Agree- but, we should be bringing more FLEET energy subjects.
- Agree – but the categories people presented in were not made clear – needs work!

Content was suitable for my background/experience

Agree 31 **Disagree** 0

Energy Cross Talk 2002

January 28-30
Seattle, WA

Program was well paced within the allotted time

Agree 25 **Disagree** 5 **No Response** 1

Comments:

- Great job of keeping things on schedule.
- Agree, but too many presenters. Each needed more time.
- On Tues., there were too many presentations without breaks, both morning and afternoon (e.g., between Sessions II & III 7 in middle of Session V).
- Disagree. Not enough time was allotted.
- Disagree. Too fast, too many, too few breaks.
- Excellent pace.
- Disagree. Not enough time for questions. Fewer presenters.

Speakers encouraged active attendee participation

Agree 24 **Disagree** 6 **No Response** 1

Comments:

- Just limited Q & A's.
- Get recommendations on who is actually a good speaker/presenter. Some were not (Parihar).
- Great group of speakers.
- Disagree – not enough time.
- Agree – but time constraints had to push things along.
- Sometimes they didn't get to answer any questions – others got lots of questions – not equitable.
- Disagree – not enough time.

What topics would you like us to cover at the next workshop?

- About the same as this one.
- Strategies for "selling" EC measures & sustainability projects.
- Session on how private industry could partner with feds on certain select initiatives.
- Presentations on existing partnerships.
- Have music playing at start of each session for "musical chairs" – persons would have to stop & change seats to meet new people. Noticed a lot of "like" people sitting w/ each other.
- Got navy – where is Army & AF?
- Really enjoyed the increased private sector presentations – though I am not sure ho many of them heard the government presentation.
- "Pentagon Presentation" – Walker Lee Evy wins best of shows or also Malcom Verdid.
- Good to hear from Microsoft, Costco & 3-M.
- More "Private Sector/Industry" participation.
- More sustainable design techniques, ESPC lessons learned.
- Innovative energy procurement.
- If possible, would like more private company perspective.
- I'd like more interaction with private industry.

Energy Cross Talk 2002

January 28-30

Seattle, WA

What topics would you like us to cover at the next workshop? (cont.)

- Less general technology, basic financing stories & private sector unless they are up to govt. standards. They are driven by profit & are less inclined to be "doing the right thing" or wanting to put \$ up front for a better product – at least from what I've seen here.
- The energy security presentations were off topic. Would like a better discussion on the security of our energy sources.
- More "Institutional" (schools, hospitals, state/local govts.) participation.
- Focus on two or three specific energy issues in lieu of large number of topics (e.g. technologies, financing, management).
- Updates on works-in-progress discussed in Seattle.
- Legislative update.
- A "view from industry", such as, what private companies are doing in EE, & how the Fed. Government can learn from them.
- Hear a perspective from ESCOs
- Legal/Contracts issues.
- Keep forum attendance low- this size.
- No more than 80 people – allows for better interaction.
- More information on recycling & methods and changes in recycling, new materials, etc.
- First-rate meeting, very well organized, very worthwhile!
- More explanation of measures that proved to save energy in an economical & efficient manner!
- Energizing the tenants of buildings to become engaged and part of the solution.
- Supply chain management to insure energy saving products are used.
- Need more time for speakers & Q&A's.
- Financing – what works & doesn't in terms of expense & time to get the project running.
- Uniform Data Collection from EMS systems.
- High level of DOE perspective presented. Would be nice to have high level DOD perspective.
- Legislative update was great. Do it again.
- Discussion of timely topics (i.e. 2001 West Coast Energy Crisis) was good. Make sure timely topics are discussed.
- Sustainable design & renewables and identity barriers- maybe use the 3rd day to work on those barriers.
- Consider a keynote speaker from Energy User News or Jay Richards from Energy News Live.
- I would be willing to help work on next years' program agenda (Steve Butterworth, National Park Services, 206-220-4277.
- I got more out of this than some of the annual FEMP conferences – whoever put this speaker group together did an excellent job – topical, quickly-paced, well-edited presentations – in a small group setting where informal follow-on could occur at breaks & after hours.
- Doing two of these a year would be valued by me & my agency.
- FEMP might want to consider that as a regular supplement to the annual national conference.
- Didn't give us the 3x5 cards.
- Metering and electronic tracking systems.
- Building commissioning.
- Need to ask for comments in each of the questions on this survey.
- Building integrated photovoltaics.
- How maintenance can be improved to optimize the energy efficiency.

Energy Cross Talk 2002

Sheraton Seattle Hotel & Towers

1400 Sixth Avenue

Seattle, WA 98101

Phone: (206) 621-9000

Agenda

(All sessions will take place in the Cirrus Ballroom – 35th Floor)

MONDAY, JANUARY 28, 2002

2:00 - 3:00 PM

Registration and Networking

(Cirrus Ballroom Foyer – 35th Floor)

3:00 – 3:15 PM

Welcome – History, Logistics, Vision

- **Millard Carr**, Workshop Facilitator, Energy Management Solutions Inc.

3:15 – 4:00 PM

Sponsor Perspective on Federal Energy Management

- **Beth Shearer**, Director, DOE Federal Energy Management Program
- **Mark Ewing**, Director, GSA Energy Center of Expertise
- **Ralph E. Newton**, Deputy Director, DoD Real Estate and Facilities, Washington Headquarters Services

4:00 – 4:30 PM

Get Energized

- **Dave Shutler**, Armstrong Service, Inc.
Topic: "Private Sector Success with Peer-to-Peer Workshops"
- **Capt. Jack Surash**, U.S. Navy
Topic: "You Can Make A Difference"

4:30 – 5:15 PM

Networking Reception

- Meet & Greet Reception

5:15 – 6:00 PM

Welcome & Self-Introductions

- Welcome: **Paul Johnson**, DOE Regional Office
- Workshop Attendee Self-Introductions

6:00 – 7:15 PM

Dinner & Keynote Address

- **David Nemtzow**, President, Alliance to Save Energy
Topic: "National Energy Policy and Energy Security: An Insider's Perspective"

TUESDAY, JANUARY 29, 2002

8:00 – 9:00 AM Breakfast & Speaker

- **Stan Price**, Director, Northwest Energy Efficiency Council

9:00 – 9:40 AM Session I – Energy Security

- **Capt. Jack Surash**, U.S. Navy
- **Beth Shearer**, DOE Federal Energy Management Program

9:40 – 10:00 AM Break

10:00 – 11:00 AM Session II – Management Support

- **Ben Hough**, U.S. Postal Service
- **Brian Magden**, General Services Administration
- **Walker Lee Evey**, Pentagon Renovation Office

11:00 – 12:20 PM Session III – Private Sector and Local Government Perspective

- **Gerry Gurtler**, Microsoft
- **Craig Peal**, Costco
- **Jean Shaffer**, Seattle City Light
- **Steve Schultz**, 3M

12:20 – 1:00 PM Luncheon

1:00 – 1:45 PM Session IV – Energy Procurement

- **Julie Berthold**, General Services Administration
- **Roman Piaskoski**, General Services Administration

1:45 – 3:00 PM Session V – Technology Application

- **Jack DiEnna**, GeoConsortium
- **Chuck Combs**, U.S. Navy
- **Malcolm Verdict**, Texas A&M University
- **Steve Butterworth**, National Park Service

3:00 – 4:00 PM Session VI – Project Financing

- **Phil Beste**, NUWC Division Keyport
- **Mike Moran**, Pacific Northwest National Laboratory
- **Wade Wilhelm**, U.S. Navy

4:00 pm Adjourn

WEDNESDAY, JANUARY 30, 2002

7:30 – 8:00 AM Breakfast

8:00 – 9:00 AM Session VII – Energy Design (Part I)

- **Robert Martinez**, General Services Administration
- **Tony Hinson**, Naval Facilities Engineering Command
- **Arun Jhaveri**, U.S. Department of Energy

9:00 – 9:20 AM Break

9:20 – 10:00 AM Session VII – Energy Design (continued)

- **Andy Parihar**, General Services Administration
- **M.K. Trina Baldwin**, SWDIV NAVFAC

10:00 – 10:30 AM Legislative Update

- **Malcolm Verdict**, Texas A&M University

10:30 – 11:30 AM Open Microphone

11:30 – NOON Workshop Wrap-Up

- What did I learn?
- Areas for improvement?
- Suggestions for Cross Talk 2003 in San Antonio, TX

12:30 PM Gather at the front of the hotel to prepare to board shuttle bus for Boeing Tour. Bus departs promptly at 1:00 pm.

1:00 – 6:00 PM Boeing Energy Tour (included in registration fee)

Attachment 4:

**Federal Energy Managers Steam
Workshop**

**Washington DC Workshop
Feedback Summary
Conducted April 18, 2001**

The following is a summary of attendee evaluations of the U.S. DOE/Alliance to Save Energy/Washington Gas Energy System Workshop, conducted April 19, 2001.

Attendees presented a total of 53 useable responses. Copies of response forms are available on request. NOTE: some respondents gave incomplete responses.

This summary presents the following:

- I- **Average Scoring:** All presenters were evaluated on a scale of 1 (poor) to 5 (excellent).
- II- **Frequency in Distribution of Scores:** the total number of 5's, 4's, ..., and 1's for each presenter is shown.
- III- **Attendees' Additional Interests and Needs:** an enumeration of attendees' interest in industry-specific resources, technologies, and assistance needs.
- IV- **Attendees' preferred media:** an expression of attendees' interest in the different existing information tools.

I- AVERAGE SCORING

Type of Attendee:	Overall	Procurement	Energy Managers
Respondent count by sector	53	4	49
Average evaluation scores of individual presentations By sector (5=excellent, 1=poor)			
Program	Overall	Procurement	Energy Managers
DOE Resources for Facility Managers (A. Wright, A. Thomas)	4.1	4.0	4.1
Mitigating price increases (H. Warren)	4.4	4.8	4.4
Steam evaluation (A. Wright)	4.2	4.3	4.2
Convincing Management (J. Moore)	3.9	4.0	3.8
Cooling, Heating and Power opportunities (R. Fiskum)	4.2	4.3	4.2
Ten-step Program for Steam Efficiency (C. Russell)	4.3	4.0	4.4
GSA Expansion & Co-generation (D. Coyle)	3.7	4.0	3.7
Design Build Considerations (R. Carlson, D. Hanlon)	4.2	4.0	4.2
OVERALL	4.2	4.0	4.2

II- FREQUENCY IN DISTRIBUTION OF SCORES

Program	Number of 5's	Number of 4's	Number of 3's	Number of 2's	Number of 1's
DOE Resources for Facility Managers (Wright, Thomas)	16	25	11	1	0
Mitigating price increases (H. Warren)	29	18	6	0	0
Steam evaluation (B. Wright)	23	19	11	1	0
Convincing Management (J. Moore)	17	18	15	2	2
Cooling, Heating and Power opportunities (R. Fiskum)	22	20	9	0	1
Ten-step for Steam Efficiency (C. Russell)	23	24	5	0	0
GSA Expansion & Co- generation (D. Coyle)	11	20	16	4	0
Design Build Considerations (Carlson, Hanlon)	20	18	10	1	0
OVERALL	6	9	1	0	0

III- ATTENDEE'S ADDITIONAL INTERESTS AND NEEDS

Percentage of attendees Expressing interest in further information			
	Overall	Procurement	Energy Managers
<i>Technologies</i>			
Electric Motors	44%	0%	48%
Compressed Air	54%	0%	58%
Co-generation	59%	50%	60%
<i>Activities</i>			
Getting upper-management assistance	34%	33%	34%
Plant assessment	34%	0%	36%
Training	38%	0%	40%

Procurement attendees are specifically interested in co-generation information and are interested in getting upper-management assistance. Energy managers are interested in technologies, getting upper-management support, and help with plant assessment and training.

IV- PREFERRED MEDIA

Percent of attendees expressing preference for specific media			
	Overall	Procurement	Energy Managers
Case studies	62%	0%	66%
Text books	42%	0%	44%
Fact sheets	45%	0%	48%
Booklets	49%	0%	52%
Contact list for vendors	32%	0%	34%
Reference list	40%	0%	42%
Software	58%	0%	62%
Internet	57%	0%	60%

Case studies, Internet, and software tools are the preferred media for accessing program information. Commercial (vendor-supplied) information is not valued as much as that coming from unbiased sources.

Registration/Speaker List For Friday, April 13th, 2001

Contact Name	Company Name	Address	City	State	Postal Code	Job Title	Work Phone	Work Extension	Mobile Phone	Email Name
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Attachment 5:

ESCO Report on ESPCs

10/31/2002

DRAFT: CONFIDENTIAL
Not for Distribution

ESCOS on ESPCs

ALLIANCE TO SAVE ENERGY

Third Decade of Leadership

DISCLAIMER

This is a DRAFT research document of the Alliance to Save Energy's Federal Energy Productivity Task Force. It represents the partial input of on-going research into the status of alternative financing of Federal energy efficiency projects. The objectives of this research are to gather the views of ESCOs, utilities, and agency participants in alternative financing, gather other relevant data, and seek a consensus on findings and recommendations to increase the level of alternative financing investment.

Qualitative Review of ESCO Perceptions of ESPCs

- The Alliance interviewed 11 of the pre-qualified ESCO's about the Super ESPC program, focusing on those that account for over 80% of the total project investment.

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ESCOS on ESPCs: Methodology

1. Which agencies do you work with? (by name)
2. Have there been agencies that you have tried to work with and been unsuccessful? If so, which agencies, and what were the obstacles prevented this work from occurring?
3. What kind of technology improvements have you made?
4. How many ESPC projects have there been, and what has been the total value of these projects?
5. On a scale of 1 to 4, how satisfied have you been with your experiences with each agency?
6. What do you feel has been the most successful project you have done? Why?
7. What has been the least successful project you have done? Why?
8. What could each agency you have worked with do to improve?
9. Are the barriers to getting projects done at the facility level or at the agency level?
10. Do you intend to continue perusing ESPC work? Why or Why not?
11. What could FEMP, Congress, or the Administration do to get projects done?

ESCO Project Investment Trends

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Dissatisfaction with ESPCs, Concern for Future

- **Biggest problem is the length of time for processing projects.**
- **Agency energy managers and officials need to be better educated in the use of ESPCs.**
- **Many ESCOs would increasingly rather work with the private sector over the Federal Government.**
- **Leadership at the top is needed to overcome OMB's apparent lack of support for the program.**

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Problems Result in Fewer ESCOS

Of the 13 ESCOs that were originally approved to do Super ESPC work, 11 remain.

- **NORESCO**
- **Johnson Controls, Inc.**
- **Honeywell**
- **Sempra Energy**
- **Duke (now owned by Ameresco)**
- **Siemens**
- **Constellation Energy Source**
- **Select Energy Services, Inc.**
- **Energy Masters International**
- **Alliant Energy Integrated Services – Cogenex**
- **Trigen (for now)**

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A Closer Look of ESCO Views of Agencies

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General Comments on Working with Military Facilities

- **Military seems risk averse.**
- **Facility and contracting staff turnover results in delays.**
- **Base Closures discourage efficiency work.**
- **Turf Battles over ESPCs – Resistance and hostility towards ESCOs.**
- **Different military definition of ESPC lifetime.**
- **U.S. Navy much less affected by these problems.**

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Mixed Comments on Army

ESCOs are pleased with the Army's use of ESPCs, but with some reservations:

- **Lack of funds for promotion of ESPCs.** No money has been allocated to the Army ESPC program to promote ESPCs, or solicit sites to participate. If the sites don't initiate projects, they don't get done.
- **Staffing Issues.**
 - Insufficient staff.
 - Work overload due to same officials handling contracting and implementation.
 - Turnover hinders the process.
 - Some staff lack facilities experience to review projects.

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Negative Comments on Air Force

50% drop in projects between 2000 and 2001

- **The ESCOs are unanimous that the new AFCESA leadership has been:**
 - Obstructionist.
 - Imposing unreasonably lengthy O&M and M&V requirements.
 - Requiring more time-consuming approvals.
- **Other Issues:**
 - Possible contract changes may discourage further ESPC work.
 - Some improvement seen since about March of 2002. Some facilities have “strong armed” projects through and sidelined AFCESA from the process.
 - Air Force Commands do not have policies in place that require the bases to participate.
 - The **Healthcare Facilities Office for the Air Force** decided in March of 2002 not to participate in ESPCs.
- Air Combat Command and Air Force Reserve Command doing good job.

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Positive Comments on U.S. Navy

- The Navy works considerably faster than the rest of the military.
- In one case, The ESCOs found out in two days who won the contract. In another, an ESCO had \$22 million of work with the San Diego Navy Bases. 1st Task order took only 2 months. The 2nd, 4 months. The 3rd, 6 months.
- Only 2 ESCOs have worked extensively with the Navy. Usually work through the DoE contract vehicle. Described as “wonderful” experience.
- Most efficiency work done through Utility Area Wide contracts before the Super ESPC program got started, or through Public Works Centers that function as Navy ‘utilities.’

Negative Comments on VA

- In September of 2001, new leadership at VA put the brakes on ESPCs, perception changed from being the best agency to the worst.
- There was a mandate to send all projects through Headquarters, which seeks closer tabs on ESPCs.
- **Margins:** VA believes that profit margins are too big. The ESCOs feel this is very unrealistic.
- **Review Process:** A review process is underway that may lead to a VA IDIQ that would be too restrictive.
- **ESCO Input:** The ESCOs want VA to reply to inquiries, and want to provide input into VA's IDIQ development process.
 - Over \$50 million in projects are now in limbo.

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Mixed Comments on DOE

- **Pluses:**
 - Strong senior staff.
 - National Labs and Regional Offices are good facilitators.
- **Minuses:**
 - Long and uncertain approval process by DOE/FEMP Headquarters for ESPC projects.
 - ESPC requirements vary among staff.
 - “Poor track record” on DOE facilities.
 - Focus on process – not outcome.

ESCO Comments on OMB

- Traditional OMB policy opposing long term contracts makes OMB, and by extension agency budget officials, predisposed against ESPCs.
- OMB “infects” finance people at agencies with the idea that ESPCs are troublesome.
- OMB’s neutrality, if not support, would facilitate ESPC progress.

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ESCO Comments on the Administration

The Effect of EO 13123 and the Clinton-Bush Transition

The Administration needs to provide leadership on energy efficiency to make agencies want to do projects.

- Executive Order 13123 was generally seen as having a very small impact, but did demonstrate interest from the top.
- The Agency scorecards need to be taken seriously. What is required now is leadership and accountability. Someone has to reward good agencies and discipline those who have not met their energy saving goals.
- All ESCOs agreed that the situation deteriorated with the new Administration.

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Theme in ESCO Comments

Importance of Individual Initiative and Leadership

- A single person can make the difference whether a project gets accomplished or not.
- Impact of USAF and VA leadership changes.
- “When someone on a site doesn’t want it to work, due to ego, or whatever, there are many ways to derail a successful project.”
- Stalled Projects
 - EPA’s Narragansett RI facility
 - Seattle Seaport Naval Underwater Warfare Center
 - US Army Fort Polk

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ESCO Concern About the Future of the Federal ESPC program

- **Number of projects at military facilities is down.**
- **The market is “shrinking rapidly.”**
- **Private vs. Public** – ESCOs now have more lucrative option of going to private sector.

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Positive ESCO Views of the ESPCs Future

- **H.R. 4's impact.** Enactment of H.R. 4 with ESPC sunset repeal, updated goals, and inclusion of water projects.
- **Air Force legislation.** House version of the defense reauthorization bill (HR 4546) changes current DoD Super ESCOs.
- **Fewer, but bigger projects.** The number of projects may decline, but the amount of investment may climb due to a trend towards larger, more complex major infrastructure improvements which may be mitigating factor.
- **New ESPC projects by old hands.** Those who have completed successful projects using the ESPC mechanism are willing to be creative with new projects.
- **Aging infrastructure** may lead to more projects.

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Miscellaneous Comments

- **Energy efficiency is often not the primary reason for the work.**
 - Ex. Charlestown AFB
 - Misconceptions about ESPCs
- **Financial Markets sensitivity.**
- **Minority 8A contractors hurt by long delays.**
- **Credit for Maintenance savings.**

ESCO Comments: Successful Projects

- **Fort Bragg, NC**
Honeywell
- **Dyess AFB, Abilene, TX**
Siemens
- **Coast Guard -Elizabeth City, NC**
Energy Masters International
- **Grissom AFB, IN**
Trigen
- **Aberdeen Proving Grounds, Aberdeen, MD**
Constellation Energy Source
- **Federal Correctional Institution – Phoenix, AZ**
Industrial Solar Technology Corp.

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ESCO Recommendations for FEMP

- **Move Projects Faster:** Streamline the process in DOE.
- **OMB:** Encourage OMB to endorse ESPCs with a circular or memo.
- **Marketing:** More aggressive marketing of ESPCs.
- **Training:** Provide better training and more facilitation to potential clients.
- **Information:**
 - **Project Leads:** ESCOs seek more information from FEMP on agency contacts and interest.
 - **FEMP Data Verification:** ESCOs would like to know how FEMP arrived at their potential projects estimates.

Next Steps?

- Role for Alliance in improving functioning of the program?

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Attachment 6:

Document to New Administration

Federal Energy Management

Saving Taxpayers A Billion Dollars a Year

Recommendations from the Alliance to Save Energy's Federal Energy Productivity Task Force

Since 1995, the Federal Energy Productivity Task Force, comprised of 34 companies and organizations that market energy-saving products and services, has monitored the performance of federal-energy saving efforts. The Task Force, chaired by Jared Blum of Polyisocyanurate Insulation Manufacturers Association and co-chaired by Paula Prahl of Honeywell, worked to encourage federal agencies to implement fully the Presidential Executive Order 13123 on federal energy saving and the complementary goals outlined in the Energy Policy Act of 1992.

In 1997, the Task Force issued a groundbreaking report entitled ***Leading by Example: Improving Energy Productivity in Federal Government Facilities***, which recommended how to improve the Federal Energy Management Program (FEMP) based on experience in the private sector. Near the end of the Clinton Administration, Executive Order 13123 was issued to implement many of our recommendations.

To date, we estimate that FEMP has saved taxpayers more than \$8 billion in energy costs in the government's 500,000 buildings.

The Task Force continues to assess agency performance, providing private sector assistance and recommendations and would like to continue its role with the Bush Administration developing new policy initiatives and helping agencies make wise energy efficiency investments.

Why Bother with Saving Energy

- ❑ **We Can Save the Taxpayers An Additional Billion Dollars a Year** -- Reducing energy use in government facilities by installing the latest, cost-effective energy efficient technologies and improving energy management practices offers the Administration a great way to save taxpayers as much as a billion dollars a year.¹ Sensible energy management also increases employee productivity and minimizes environmental impacts. We estimate this effort would generate \$5 billion in economic activity and purchase of advanced energy technologies.

Members of the Federal Energy Productivity Task Force

Alliance to Save Energy
Alliance for the Polyurethane Industry
American Gas Association
American Gas Cooling Center
Andersen Corporation
Armstrong International
Battelle
CertainTeed Corporation
Conservation Management Corporation
Edison Electric Institute
E-Mon
Energy Systems Laboratory (Texas A&M)
Enron
Fannie Mae
Geothermal Heat Pump Consortium
Honeywell
Johns Manville Corporation
Johnson Controls
Lawrence Berkeley National Laboratory
National Insulation Association
National Renewable Energy Laboratory
North American Insulation Manufacturers Association
Ogontz
OSRAM SYLVANIA
Owens Corning
Pacific Gas & Electric Company
Polyisocyanurate Insulation Manufacturers Association
Public Service Company of New Mexico
Sempra
Solar Energy Industries Association
Swagelok
Washington Gas
Whirlpool Corporation
Xenergy

¹Estimates based on research from U.S. Department of Energy, Alliance to Save Energy, Office of Technology Assessments and Pacific Northwest National Laboratory

- ❑ **The Private Sector Strongly Supports This Effort** – The private industry strongly supports government efforts to improve energy productivity through energy efficiency. Companies have the off-the-shelf technologies – insulation, windows, controls, HVAC systems, controls and metering -- needed to make it happen. They also have a wealth of experience on how to reduce energy costs that they are willing to share and offer a range of alternative financing solutions that agencies can use to make improvements at no up-front cost to the government.
- ❑ **Leading by Example** – Consumers, businesses, and governments throughout the world look to the United States as a model of economic productivity, efficiency, responsibility, and high quality of life. Effective management of the federal government's energy use demonstrates the new Administration's and nation's commitment to use energy resources wisely, clean up the environment, increase economic productivity, and reduce the federal debt.

The Role of DOE FEMP

While DOE FEMP leads the government's efforts to improve energy management, it doesn't have the authority to mandate agencies to act. However, FEMP is doing an important job through its guidance and technical assistance to federal agencies and the Office of Management and Budget. FEMP, after years of under funding, now receives \$27.7 million and the Task Force believes that recent funding increases were necessary to provide critical project financing assistance.

Task Force Policy Recommendations

The Alliance's Federal Energy Productivity Task Force recommends that the Bush Administration adopt the following policies to greatly enhance the Federal Energy Management Program:

1. ***Make Federal Energy Productivity a Presidential Priority and Hold the Agencies Fully Accountable***-- Ensure that federal energy productivity is a management priority by appointing energy management czar within the Executive Office of the President to hold agencies accountable to implement fully the program's goals. Experience has shown that without presidential leadership on this issue, agencies will drop the ball.
2. ***Establish Energy Efficiency Investment Goals*** -- Set goals for each agency requiring them to invest at least 10 percent of their annual utility cost in life-cycle cost-effective energy-efficiency improvements to ensure they meet their energy-saving goals and create more productive and healthy work environments for their employees.
3. ***Get the Department of Defense More Involved*** -- Since DOD owns 80 percent of government buildings and uses 65 percent of the energy, FEMP can only succeed with DOD's active participation. Reducing military energy demand enhances national security and frees additional resources for core missions. DOD needs to establish senior energy management team within Office of Secretary to communicate their seriousness on the issue.
4. ***Expand Financial Options*** – Financing improvements is often one of the biggest barriers agencies face. The Administration should use the successful funding model offered by the Texas State government energy improvement loan program, *LoneSTAR*, to create a new, low-cost pool of retrofit funds to supplement appropriations and third party financing.
5. ***Maximize Energy Efficiency Opportunities in Unregulated Utility Markets*** – When agencies purchase lower cost and green power in restructured electric and gas markets, the Administration should ensure they incorporate energy saving and peak demand measures.

Attachment 7:

Bremerton Naval Station Audit

FINANCING OPTIONS FOR BREMERTON NAVAL STATION

	Comments/ Merits
1. Agency Appropriation - Capital and/or O & M/Repair/Renovation expenditures (U.S.Navy).	
2. Utility Financing/BPA - Naval Shipyard Bremerton, a direct service customer of Bonneville Power Administration, may qualify for the BPA's Conservation Augmentation(\$200 million for next 5 years) and/or Demand Exchange(for large industrial customers) programs. BPA Points of Contact: Portland, Oregon Ed Mosey - 503-230-5359 John Pyrch - 503-230-5483 Seattle, Washington Tim Scanlon -206-220-6773 Shannon Greene - 206-220-6775	
3. ESPC/Super ESPC Performance Contracting - Alternative or Third Party Financing through USDOE/FEMP and/or DOD/Navy mechanisms. Point of Contact: Seattle, Washington Cheri Sayer - 206-553-7838 DOE Regional Office	
4. Any workable combination of the above - Listed options(to be determined by Naval Shipyard Bremerton), based on financial leveraging, contract terms & conditions, and/or schedules.	

SUMMARY AUDIT RECOMMENDATIONS					
Electrical System Assessment - Recommendations					
No.	Description	Cost	Energy Saved (kWh/yr)	Cost Savings (yr)	Payback (yrs)
1	Install circuit monitors at each capacitor bank.	\$35,000 [1]			
2	Study to consider removal of capacitor banks at Substations 83, 84, E, and 3A.			See note [2]	
3	Perform comprehensive harmonic study.	\$40,000 [3]			
4	Deploy additional metering on 480 V distribution system serving waterfront area.	\$2,500 per substation		See note [4]	
5	Segregate sensitive equipment from non-linear loads in new designs.	N/A			
6	Locate utility tie-in points as near expected loads as possible for new installations.	N/A		See note [2]	
7	Evaluate areas experiencing power quality problems to determine appropriate mitigation technique.	N/A			
8	Specify twelve or eighteen-pulse power converters or input filters for new equipment.	130-160% [5]			
9	Purchase premium efficiency motors for new installations.	\$800 per motor [6]	12,800	\$384	2.08
10	Replace motors continuously operating at less than 60% load with premium efficiency motors.	\$1,442 per motor [7]	7,993	\$187	7.70
Notes:		Sub total: \$	2,242.00	20,793	\$571 3.93
[1]	Seven monitors at \$5,000 each.				
[2]	Noted recommendations generally address power quality issues; majority of savings result from reduced downtime, extended equipment life, etc., rather than energy savings. Calculation of savings would have to consider cost of downtime and estimated forced downtime per year due to power disturbances at a particular location in the shipyard.				
[3]	Recommendations 2 and 3 would be combined in a single study.				
[4]	Recommendation 4 would allow more accurate allocation of costs to operating units.				
[5]	Capital cost premium compared to standard six-pulse converter with no filters.				
[6]	Incremental cost of a 50 HP premium efficiency motor.				
[7]	Based on replacing existing 50 HP motor loaded at 40% with 25 HP premium efficiency motor.				
Steam System Assessment - Recommendations					
No.	Description	Cost	Energy Saved (kWh/yr)	Cost Savings (yr)	Payback (yrs)
1	Flue Gas Oxygen Content	\$220,000		\$30,000	7.2
2	Isolate Steam Headers During Extended Periods of Reduced Steam Demand	\$1,100		\$30,000	0.05
Notes:		Sub total:	\$221,100	\$60,000	3.69
[8]	Requires no capital investment costs are manhours and lost steam during bleed down.				
Compressed Air Assessment - Recommendations					
No.	Description	Cost	Energy Saved (kWh/yr)	Cost Savings (yr)	Payback (yrs)
1	Operating at a higher than required pressure [9, 10]	N/A		\$326,000	
2	Leaks [11]	\$2,500	300 kWh	\$150,000	0.2
3	New dryers for entire plant to satisfy only 5% of demand	N/A		>\$1million capital	
Notes:		Sub total:	\$2,500 300 kWh	1476000	0.2
[9]	125 psig is the current operating pressure. Average required is only 85 psig. This is causing one additional compressor to be online at any given time. The extra compressor is costing an additional \$250,000 annually. Requires no capital investment.				
[10]	Excess pressure causes "artificial demand" which is air consumption created by operating an unregulated device at higher than design pressure. This includes leaks. Requires no capital investment. Projected savings \$76,000.				
[11]	Purchase leak detector and institute in-house leak detection program.				
Source: Oak Ridge National Laboratory - 6/13/01					

Industrial Energy Process Audit Project Summary

Assessment Findings	Action Taken	Project Developed	Project Status
Steam Assessment			
Boiler blowdown heat recovery	Existing system in place.		Task: Investigate operation for irregularities.
Automatic flue gas oxygen control	Current project	ENB-95-002, Improve Steam Plant Boiler Efficiency. Installs damper controls and monitoring system for steam plant boilers.	Investment = \$354,656 Annual Savings = \$102,113 Funding = ECIP FY03 NAVFAC will be funding design effort for FY03.
Fuel selection	Using fuel oil when less expensive	Standard policy to use less expensive fuel oil whenever natural gas exceeds price of fuel oil.	
Pier header isolation	Not feasible due to start up problems		
Forge Shop waste heat recovery	Current project	ENB-01-002, Add Heat Recovery System to Forge Shop Waste Steam	Investment = \$92,520 Annual Savings = \$12,617 Funding = Region project list.
Steam trap maintenance program	Current for distribution traps	ENB-00-003, Steam Trap Maintenance Program. Institute a steam trap maintenance program for PSNS facilities.	Investment = \$161,880 Annual Savings = \$98,800 Project write-up completed. PSNS considering funding options.
Power Assessment			
Circuit monitors			Task: investigate installation of current meters at capacitor banks.
Harmonic study			Task: investigate the need for an additional harmonic study.
Metering	Current metering upgrade project in development.	Project is to upgrade electric metering of buildings and install meters for homeported ships.	Scheduled for FY03.
New projects - overall power distribution and harmonics	Major new projects included impact upon electric distribution system.		
New equipment – harmonic output	Major new projects included impact upon electric distribution system.		

Industrial Energy Process Audit Project Summary

Assessment Findings	Action Taken	Project Developed	Project Status
Motor upgrade – replace when expired with premium efficient			Task: Investigate current shop practices.
Motors operating at less than 60%	Investigating MagnaDrive coupling	ENB-01-005, Add MagnaDrive couplings to motors. Steam plant ID fans, feed water & DA pumps. Improves motor efficiency by reducing motor load to match actual load.	Investment = \$386,015 Annual Savings = \$44,331 Funding = Utilities group is reviewing project.
Compressed Air Assessment			
Repair air leaks	Maintenance; leak detection survey		Resource Conservation Manager is setting up program.
Artificial demand	Flow control and storage – project	PSNS is developing project to upgrade compressed air system. Project involves compressor replacement and upgrade of control system.	Resource Conservation Manager working with project lead to incorporate energy efficient measures.
High pressure requirements	Various shipboard and process applications require 120 psi.	“ – upgrade project investigating pressure requirements.	
Air dryers	Waterfront practices have strict dry air requirements.	“ – upgrade project is investigating dryer requirements and types of dryers.	
Compressor sequencer		“ – upgrade project includes better sequencing of compressors.	
Air movers	Shipboard requirement. Use electric driven where able.		Discussed with temporary services: use of electric driven ventilation is encouraged wherever practical. Investigating cost effectiveness of better, efficient air movers.
Welding Assessment			
Replace conventional welding power supplies with inverter power supplies	Shop practice to purchase inverter power supplies.		

Industrial Energy Process Audit Project Summary

Assessment Findings	Action Taken	Project Developed	Project Status
Preheat process efficiency – new induction heating system		Shipyard has purchased an induction heating system.	
Turn off idle power supplies	Shop practice		
Mechanization - Employ mechanical means in ship cut up to replace personnel.	No action taken, too complex ... many different situations to deal with.		
Replace ovens	Project evaluation	Project to replace or modify current ovens was not cost effective.	
Electrogas or electroslug weld	Uncertainty of weld properties		See note.
Longer electrode extension	Shop practice		
Reduction of preheating requirements	Evaluation needed		See note.
Narrow gap welding	Evaluation needed		See note.
Smooth cap weld deposits	Evaluation needed		See note.

Welding processes are set by process instructions. These instructions are developed based upon regulatory requirements and best shop practices. Introduction of new processes requires a lengthy review to ensure the best weld for the given situation. The above process changes are being considered by the welding engineers.

Other Energy Projects

Lighting upgrade		Upgrade fluorescent lamps throughout the Bremerton naval complex.	Project is in contract development stage. Partial funding provided by Bonneville Power Administration.
Lighting upgrade		Replace incandescent floor and table fixtures with CFL's within the Bachelor Enlisted Quarters.	In progress. Funded by Bonneville Power Administration.
Water Conservation		Replace single pass cooling of Forge Shop heat treatment furnaces and forge.	Project funded by ECIP. Installation contractor is being selected.
Utilities Assessment Study	Being completed by Naval Facilities Engineering Service Center	Investigating integrity of steam and condensate distribution system. Evaluation piping insulation, leaks, steam traps, etc.	Currently underway.

Industrial Energy Process Audit Project Summary

Industrial Energy Technical Assistance Program

Puget Sound Naval Shipyard (PSNS) is the largest and most diverse shipyard on the West Coast. Established in 1891, the Shipyard possesses the capabilities to overhaul and repair all types and sizes of United States Navy ships. The Shipyard is part of the Bremerton naval complex consisting of Naval Station Bremerton, Fleet Industrial Supply Center, Inactive Ships Facility and a host of tenant commands. The complex is located adjacent to the City of Bremerton in Western Washington on the West Side of Puget Sound. The complex covers 327 acres of hard land and 338 acres of submerged land. Included in the complex are nine piers, with 12,300 linear feet of deep-water pier space, four moorings, six dry docks and 382 buildings with a total of 6,078,000 square feet.

The complex utilities are:

- A central steam plant that provides steam for industrial processes and space heating. Natural gas is the primary fuel used in the generation of steam, with fuel oil as a backup. Steam is distributed via an underground distribution system. A few buildings have individual boilers for space heating.
- Bonneville Power Administration provides electric power for the complex.
- The Shipyard has three separate compressed air plants that feed into a common distribution system providing compressed air to shops, piers and dry-docks.

The Department of Energy has provided PSNS an energy use audit of its distribution systems and industrial processes. Completed so far have been assessments of:

- Central steam generation and distribution
- Electric power distribution
- Compressed air generation and distribution
- Welding processes

This is a pilot program to establish an energy use assessment and energy reduction opportunities for industrial facilities. The program provides a two-day walk through audit of energy using systems. Even with such a brief visit, the auditors were able to identify the systems and where to target for energy reduction opportunities. The auditors:

- Interviewed engineers and operators
- Reviewed operation logs
- Reviewed previous energy studies
- Toured the facilities
- Took operation measurements ... temperature, pressure, voltage, current, etc.

The auditors provided a complete description of the energy using systems, their operational parameters, and suggestions for energy reduction.

Industrial Energy Process Audit Project Summary

Energy reduction opportunities have included suggestions for improved operations to identification of new technologies that use less energy. For some systems the auditors gave praise for an efficiently run operation and could find only a few energy reduction opportunities. Others systems provided more opportunity for energy reduction options.

Some examples found:

Steam System:

- Installation of automated flue gas oxygen controls on steam plant boilers. This project is currently awaiting funding.
- Identified many of the problems related to steam distribution systems that the operators and engineers are aware of. Examples:
 - Increase condensate return.
 - Leak repair.
 - Steam trap maintenance.
 - Fuel selection. When natural gas prices skyrocketed the plant switched to less expensive fuel oil.
- Heat recovery opportunities in waste steam. Surveyed the Forge Shop and waste steam from the forge presses. This area is currently being examined for potential energy reduction project. A heat recovery manufacture has visited the site.

Power Distribution System:

- Stressed the issue of power quality. How harmonics generated by variable frequency drive motors and welding equipment effects the power distribution system and operation of sensitive equipment.
- Noted the impact major construction projects have upon the power distribution system and the need to install the appropriate capacitor banks and filters.
- Suggested replacement of expired motors with premium efficient motors. Care shall be taken to insure replacement motor matches actual load.

Compressed Air System:

- Provided input to current compressor upgrade project. Identified the unnecessary increase in air pressure. Established better communication between customer and engineer designing the system upgrade.
- Provided energy costs of current operations and the benefits of alternate operations. Use of motor driven fans in lieu of compressed air driven blowers for example.
- Identified the cost of leaks.
- Identified the need for a comprehensive compressed air audit.

Welding Systems:

- Replace existing welding power supplies with energy efficient power supplies.
- Use of induction preheating in lieu of resistive preheating.
- New weld processes that require fewer passes.

Industrial Energy Process Audit Project Summary

Summary

The industrial energy process audit has been beneficial to Puget Sound Naval Shipyard and Naval Station Bremerton. Some of the operational recommendations have been incorporated. The operators and engineers have gained additional insight to the generation and distribution systems. The auditors were very knowledgeable in their respective fields. The auditors were very courteous and respectful of the busy schedules of the operators and engineers they interviewed. Their reports were technical in system description and recommendations, and yet understandable.

Attachment 8:

FEP Task Force Meetings

Federal Energy Productivity (FEP) Task Force

5/02/2000 Minutes & Action Items

The Alliance's Federal Energy Productivity Program Task Force met Tuesday, May 2nd from 10:00 AM-12:00 PM at the Alliance offices.

David Nemtzw, Alliance President, welcomed the 25 attendees and introduced Jared Blum and Paula Prah, the Chair and Co-Chair of the Alliance's FEP Task Force.

Mr. Blum described the FEP as a great brainchild of the Alliance and its associates. It was created to provide constructive suggestions to the Federal government such as last year's "Leading by Example" report. He noted this group was the only one in town that focuses exclusively on all the FEMP issues and is personally enthusiastic about the continuing work of this group.

Malcolm Verdict, Alliance FEMP program manager, stated that 10 of the 14 FEP recommendations made in the report were adopted in the Executive Order 13123. The remaining items require Congressional action. He stated the Alliance had written OMB in December 1999 noting they were delinquent on several items in the E.O. As a result, OMB has taken several recent actions to make this a top management priority and recently has made significant progress in meeting their requirements under the E.O.

Wesley Warren: Mr. Warren stated the Federal Energy Management Program is one of his personal priorities as well as President Clinton's. He stated that he valued the Alliance's input which has always been on the "leading edge" of effective energy policy. Wesley indicated he believed there were **three major items** that must be accomplished through E.O. 13123:

A) Accountability and Measuring Progress --

At its March meeting, OMB made energy management an agenda item at the Presidents Management Council. They briefed the Office of Federal Management Procurement Policy on the purchasing tools/requirements in the Executive Order. Mr. Warren said OMB has made federal energy management one of its twenty-four priority management objectives. To improve accountability, Energy use score cards for FY 1999 were submitted on March 7th to OMB and copies will be released to the Alliance soon. Scorecards for FY 2000 will be available later this summer for comments.

The Administration issued a "Greening the Government" report card on Earth Day 2000 which indicated the Big Three agencies -- DOE, GSA, & DOE have excellent FEMP programs and have made progress towards meeting their goals. OMB is working on issuing Presidential Awards for Energy Management before President Clinton leaves office.

B) Senior Level Commitment Within Agencies and the Administration --

There needs to be deep roots, on bipartisan basis, to make energy management a permanent priority within agencies and the Administration. There must be very senior level support. Commitment by nonpolitical staff helps insure the E.O. will be implemented on an ongoing basis. OMB is also close to issuing FARs on ESPCs and purchasing energy efficient equipment.

It was stressed repeatedly that the recommendations of the Task Force, the goals of the FEMP program and indeed the program itself, must be institutionalized so that they remain in place completely independent of the change of administrations in the White House. FEMP must not be a partisan issue. There needs to be high level senior participation within the Administration, no matter which candidate wins the election in November.

C) Resources/Mean to accomplish E.O. Objectives --

OMB must make sure that sufficient financial resources and people are available to accomplish the job. OMB is working hard on guidance for retaining savings from energy projects but this was not a simple task to insure accountability and document level of savings [Notice of proposed rule in 5/10/2000 Federal Register].

Questions and Answers

Paula Prahl -- "Why is it [effective energy management] so hard?"

Answer -- Wesley noted that agencies had many competing priorities which were directly mission oriented and OMB and others must keep working hard to keep it on the radar screen. Mr. Warren explained that one of the biggest challenges is that the major consumers of energy do not consider energy use a priority. Big bureaucracies are very hard to move, so the smaller agencies, which move faster, are making more progress. The larger ones, however, provide the greatest potential for energy savings.

Jennifer Schafer -- Why is it so difficult to get agencies adequate appropriations in FY 2002 budget?

Answer -- Mr. Warren felt case studies might help to sell to other agencies and congress.

Steve Rosenstock -- Questioned if the problem with retained savings was how to split the savings.

Answer -- E.O. 13123 decreed that agencies would retain the savings from energy management programs. However, OMB faces a challenge in issuing guidance, because agencies fear that saving money may result in congressional budget cuts. There is also a great challenge in structuring programs in a way that will allow money to go back to energy managers in a way that Congress will go along with which is not "out of control".

Question -- How do environmental goals fit into FEMP strategy?

Answer -- Wesley stated repeatedly it has been shown there is no conflict between good business and obtaining environmental goals, given the effectiveness of 21st century technologies. Shelly Fidler noted there was tremendous international interest from countries such as Russia and Mexico on how the U.S. implements its FEMP program.

Wesley mentioned that senior agency procurement people were not well informed about the alternative financing available for energy projects at a recent meeting. More needs to be done to educate and motivate people. He believed more agency personnel were on board and saw energy management as their job as well as the right thing to do.

Gene Viola -- Asked Wesley what agencies would OMB showcase to have greatest impact and how to benchmark success.

Answer -- DOE, DOE, and GSA.

Question -- Katherine Hamilton and others noted how hard it was to find list of good FEMP success stories. It was suggested OMB/DOE do a better job tracking all implemented projects by congressional district such as listing by zip code.

Answer -- OMB and DOE need good success stories documented to carry forward the progress to date. Wes will look at how to document projects other than just total dollars under contract. Jared mentioned the Alliance would consider making awards if Wesley thought it would be effective.

Jared also suggested producing a "best practices" guide for agencies to follow for effective energy management. Ms. Fidler noted that Sharon Murphy at Defense Logistics Agency had already done this.

Mark Hopkins -- Questioned the numbers used in the Greening of the Government report. If progress is really being made as the report states, then is the FEP Task Force still needed?

Answer -- Mr. Warren responded that some agencies are fine, but some need improvement. There is a fine balance between showing progress at the agencies and measuring the accuracy of the figures. There has been a lot of "cream skimming" until now, but with the current 30-35 percent goals, there will need to be more in-depth

work done. The State Department numbers were changed since they recently had added embassies, which had distorted their historical baseline.

Shelley Fidler: Ms. Fidler stated the Alliance and the Administration needed to "focus like a laser" to get the job completed before a change in the administration. She encouraged the FEP to give DOE, OMB, agencies and White House a "TO DO LIST." She noted the remarkable speed which Sharon Murphy at DLA had put together a large number of Army retrofits last year covering 834 buildings at 5 bases. She encouraged agencies to go to Sharon for help on fast tracking energy service contracting. Shelley asked for recommendations on what the President can do personally to promote greater agency movement/progress on their FEMP programs.

Mark Wagner -- Congressional notification continues to be an impediment for civilian agencies until they do it the first time. Needs to be boiler plate language for them to use and reuse. It is much easier after the first time and most members frankly do not want to be bothered with the notification of ESPCs.

Barry Holt -- Reiterated that congressional notification was a real problem. He noted what is really happening with ESPC contracts is "paying for infrastructure improvements" through energy savings. In an accounting sense, there are little positive cash flow "savings."

Joan Glickman: FEMP has forged an effective working relationship now with OMB staff. DOE is on track for issuing June E.O. Guidance and drafts are available for comment. The remaining two DOE guidance items from December - Life Cycle Cost and Greenhouse Gases Credits - will be released by the end of May. Beth Shearer wants a partnership with outside groups such as the Alliance FEP task force on effective implementation of the E.O. Beth also wants to produce a government wide Strategic Plan for implementing federal energy management.

FEMP plans to hire two additional staff asap to identify and sell projects to agencies at the regional level. Joan also stated outside awards from the Alliance would be a good incentive for agency action.

Suggested Next Steps for Task Force

- ☐ **Develop a One Year Progress/Report card on implementation of E.O. 13123 for release in early June.** Malcolm stated the ability to do this rest upon timely release of scorecards by OMB. The Alliance is committed to making this happened as soon as the scorecards are released.
- ☐ **Develop specific "To Do Lists" for DOE, OMB, and individual agencies as well as continue monitoring progress.** The Alliance has done some of this already for DOE and OMB and will continue.
- ☐ **Identify energy policy person in each presidential campaign and educate them on the bipartisan merits of an effective FEMP program.** The group nominated George Phelps to work on this item. Staff will follow-up with George.
- ☐ **Produce a Primer on FEMP for nonpolitical agency personnel and energy management beginners.** This could be in the form of a "Best Practices" guide for contracting and energy management containing lists of key contacts and documents and might be web based. Dave Shutler suggested the Air Force already had such a document and would provide a copy to the task force. Staff will research what is already available in federal and private sector and report back to the task force.
- ☐ **Get members of the Task Force Appointed to the Public Private Task Force on FEMP.** Staff and Joan Glickman reminded individual members to get their nominations into FEMP asap. Staff has sent an email alert to the Task Force reminding them of the timelines. This process is very lengthy [over one year] to seat the group.
- ☐ **Peer/Public review of agency implementation plans.** Joan Glickman suggested that a peer review process of a mixed advisory group such as the DOE public private advisory group would be very useful to improve

government-wide implementation. She felt that agency implementations plans need to be more strategic, uniform and have external peer review. Staff will research ways other than report cards how this could be accomplished.

☐ **Recommendations to the President on FEMP.** Ms. Fidler asked for immediate feedback on what the President can do while still in office to make the E.O. Work. Staff will contact Shelly with suggestions. Other members are encouraged to email her with ideas.

If you have comments on these minutes, contact Malcolm Verdict @ 202.530.2213

Thank you.

FEP Meeting Attendees

Member	Company	E-mail
Barry Holt	Xenergy	bholt@xenergy.com
Shelley Fidler	White House Climate Change Task Force	
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To: Federal Energy Productivity (FEP) Task Force Members

From: Luther W. Dudich

Date: November 6, 2000

Re: FEP Task Force Meeting Notes & Future Plans

The Alliance's Federal Energy Productivity Program Task Force met on Thursday, October 9th from 8:30 AM-10:30 PM at the Alliance's offices. Beth Shearer, Director of FEMP, Joan Glickman, the Deputy Director of FEMP, and Cindy Vallina of the Office of Management and Budget were our featured guests.

Mark Hopkins, Alliance Vice-President, introduced Jared O. Blum, Chair of the Alliance's FEP Task Force. David Nemtzw and Dan Reicher were mentioned as not being present due to another meeting offsite. Paula Pahl, Co-Chair of the Alliance's FEP Task Force, joined the meeting by phone. Mr. Blum described the biggest priority of the meeting as discussion of ways to institutionalize E.O. 13123 in preparation for the presidential election in November. To accomplish this, Alliance staff will be drafting up 2 page transition document by election day (to be tailored to the winner), explaining the importance of FEMP. Alliance staff is seeking comments from Task Force members for suggestions to both DOE management and OMB for making FEMP a priority for the next administration.

Malcolm Verdict - Overview

Malcolm Verdict, Director of the Alliance's FEMP program, gave an overview of the major correspondence that had occurred since the last Task Force meeting.

- The May 5th letter to Dan Reicher concerning implementation of E.O. 13123. The requirement to set a target for the number of ESCO's was stressed. This garnered a very positive response from Assistant Secretary Reichers' office.
- A letter from Dee Lee at the Office of Management and Budget on May 31st. Suggestion of adding a financial metric.... Specific budget guidance occurred in July. The spending numbers were for last year, this year, and the request for this year. efore the June guidance was release.
- The letter to Dan Reicher on September 21 from Mr. Blum and Ms. Pahl. There were three points stressed: Setting realistic year-end goals for delivery order targets at DOE facilities, convening the Public-Private Advisory Committee (which is FEMAC), and securing adequate funding to accomplish the E.O. goals.

Ms. Shearer asked if anyone had been involved with these outside the mtg.

Mr. Verdict concluded by stating the Alliance has been continuing to work with OMB and FEMP.

Ned Raynolds- Hill Report

Ned Reynolds, Alliance Policy Associate, reported on the positive response the FEMP program budget has received this year. The Interior bill that the President has signed contains an increase of 7.6 percent to \$25.7 million for the Federal Energy Management Program. A chart was presented of the funding the FEMP program received this year, as well as a graph comparing this years' funding to previous years funding.

Language also made it through raising the threshold for required congressional notification by federal agencies entering into an Energy Savings Performance Contract (ESPC) from \$750,000 to \$10 million. Removal of this inadvertent barrier to ESPC's will have many benefits for the FEMP programs and E0 implementation.

Mr. Blum voiced a concern that distributed generation language did not specify what technologies were included, which could lead to diesel turbines being counted.

Beth Shearer

Ms. Shearer's office has received \$800,000 in the new budget to hire three new limited term employees. There is four million dollars in the Defense Appropriations bill for Military Energy Efficiency ESPC's, to defray the costs of assessments from their side. The newest guidance had been released before this meeting, on Site vs. Source, Life Cycle Costs, Water use, and others. A 2005 renewable goal had been set, but none for 2010 yet.

The FEMP Public Private Advisory Committee, which consisted of 11 members, including FEP Task Force Chair Jared Blum, was to meet Oct 23 & 24 in D.C. (This meeting occurred as planned, and notes from it will be provided ASAP.)

Cindy Vallina

FEMP is building its core capabilities. Currently, FEMP is teaming with EERE's Office of Industrial Technologies to do work at Bremerton military base. Some regional commanders have been upset.

The Department of Energy has problems with ESPC's related to the July 2000 guidelines.

Bundling of work was discussed. Richland and headquarters.
The Congressional notification rise to \$20 million was re-mentioned.

FEMP has some responsibility for DOE facilities, but not other agencies.
There was a brief discussion about the role of review boards, and bundling efficiency with renewables.
There was concern about duplication.

There will be no more automatic exemptions for energy intensive facilities.

There are 3 areas; reporting, meetings with senior officials, and Presidential awards.
They have worked with FEMP to create detailed Guidance.

15-20 agency reports are in already in October, as opposed to being April before a similar number were in the last time.

This is estimated, preliminary data.

Budget examiners have been involved. Their questions have been very helpful. Major Agency cabinet people need to be involved.

Wesley Warren has been meeting with the DAD's and PAD's in the Office of Management and Budget to get them involved from the "bottom up and the top down." OMB continues to work with agencies, and providing training for agency employees when needed. There was a meeting of senior officials (the week after the FEP Task Force meeting) to educate them on a macro level, including Disney energy managers in to explain Corporate Energy Management.

It was announced there will be piggybacking on the FEMP awards of Presidential Awards for Federal Energy Management, which took place on October 20th. Ms. Vallina asked the task force members to provide her with information about agencies doing good work. The Alliance had provided a list of 12 people. Recognizing agency teams.

Beth Shearer invited ALL Task Force members to FEMP awards reception (Hart Office Bldg., 5:00 PM on 10/11] and awards dinner on 11/06 at Washington Hotel at noon. CALL 800-353-5342 to RSVP.

The criteria for the FEMP awards are being rewritten to bring them in accordance with the executive order. OMB has provided phenomenal leadership. Mr. Verdict commented that working with Ms. Vallina has been a positive experience, and will continue to be so when her boss has moved on after the election.

Cindy asked for line items for the 3-year cycle.

Mr. Blum stated that Alliance associates needed to make Federal Energy Management an issue before the election. Ms. Vallina has been working on her transition document. Mr. Fritts mentioned that the Gas industry has been talking to GSA.

The transition is the biggest area of concern. In 1992, the transition was very informal. Mr. Hopkins related that most Energy Efficiency activity in 1992 was related to EPACT. There was a "lot of reporting and a low trust level" in the transition that year. The FEMP office was at a nadir then. George W. Bush was quoted as talking about EO 13123, which is positive.

The theme of maintaining the status quo, but making step changes to be part of the legacy for the next president was stressed.

Jared requested all members to send ideas for the FEMP Transition Document to Mr. Verdict by Oct 15th.

Group decided: it should contain big picture ideas focused at senior management level, should encourage new ideas and the growth of the existing program, should be 2 pages with bullets, should be ready by election date with final spin added the candidate that wins.

We need suggestions for both DOE management and OMB.

It was decided to focus on the document, and then on who wins. The transition documents will be passed on to the Transition teams.

Federal Energy Productivity (FEP) Task Force 4/16/2001 Minutes & Action Items

The Federal Energy Productivity Task Force met Monday, April 16th from 3:00 PM-5:00 PM at the Alliance offices.

Agenda items included:

- 1) E.O. 13123 Implementation Status - OMB Representative (Invited, did not attend)
- 2) FEMP Budget Request by DOE - Beth Shearer
- 3) Murkowski and Bingaman Energy Legislation related to FEMP - Dave Hamilton
- 4) Actions by Task Force concerning FEMP funding and proposed legislation - Jared Blum/group

Jared Blum, Alliance's FEP Task Force Chair, welcomed the 8 attendees and Paula Prah, the Co-Chair, who joined the group by phone. Both started with concerned talk about the proposed Administration budget, which slices funding for FEMP by 48 percent.

Malcolm Verdict covered the Alliance's activities since the last Task Force Meeting, dealing with the new Administration. These include the recommendation document sent to the Bush transition team, and a memo to FEMP on the status of Exempt buildings reporting by Federal agencies. He talked about the problems that the Agencies had with reporting The White House still exempt for ridiculous reasons (2 agencies claiming) DOD only claiming cold iron energy

-

David Hamilton, Alliance Director of Policy, discussed the current legislation affecting FEMP. There are four pieces of legislation, three by Bingaman, one by Murkoswki. There is a Federal Energy Bank proposal that was discussed. Mr. Hamilton questioned whether the Alliance should prepare to take a stand on this proposal. He also questioned if it would go through as a stand-alone bill, or be amended to the bankruptcy bill.

Weatherization and LIHEAP
less than a 50/50 chance.

Mark Wagner suggested that the Alliance FEP program should track water conservation as well.

Hamilton suggested sending a clear message to Sen. Bingaman. The house is still waiting for the Cheney report. There is a possible provision in a Barton bill to allow Governors to request federal energy cuts in a state in a crisis situation, such as California is undergoing currently. (Note: this was before President Bush's order on federal energy use.)

The House Leadership would like an energy bill this summer. Hamilton did not see much action, unless there is an energy crisis in New York as well as California, when the balance of environmental/energy will be thrown, unless there is a cynical use of the summer energy crisis. He sees the floor of the house as the best hope.

Beth Shearer talked about how FEMP will handle the cuts.

Beth Shearer said that her staff is not being kept up to speed on Vice President Cheney's work.

FEMP's first priority is to protect the additional staff positions created to fulfill the goals of E.O. 13123.

It expanded to fulfil the EO, and now keep those 15 people comes first. Beth is most concerned about the funding for the National Lab's work with FEMP being cut. The cut backs FEMP may have to do include cutting back on Industrial audits to zero, cutting back on updates, cutting the number of FEMP Focus issues, and the number of FEMAC Advisory Committee Meetings. She is hoping that additional money will come through in the Department of the Interior Appropriations bill.

Mark Wagner: what about technical guidance, which has had a 62 % cut?

Shearer: 130 design- 30- funded

80 design- 16- funded

There DER- priority for Sec of Energy, Beth was gonna cut it.
ask Bill prks to help out.

FEMP and California

they aren't thinking of EO 13123

Shearer- been working with Cab...

Sending peak load retention teams.

Blum- Resource energy managers.

13 million- 1992/93 FEP budget

Feds in CA - emergency reduction plan.

Questions and Answers

Hopkins- project financing

more or less project financing to be done?

Mark Hopkins asked: Can agencies do work without FEMP now?

OMB has an argument that agencies don't need training anymore, because they have done enough ESPC's now, and they no longer need any more "handholding." Beth responded that OMB is not taking into account re-education required due to the new Administration and turnover in general.

We need an effective counter to OMB's 'Just do it.' The Office of Budget and Management

OMB- were on target anyway

Hamilton- the Interior mark-up is scheduled for Mid-may, and an across the board cut of Interior may be required to restore funding for Energy Efficiency.

Blum- continue dialogue on this?
What effect will this have?

Shearer- try
Probably going to end up with a range of savings in ESPC's.
ex. Design ex-
PTO 15,000- saw 90,000 in potential savings.

Wagner- what type of ROI numbers?
Hamilton numbers used in thing to Abraham?
Hopkins- what are cumulative savings attributed to FEMP itself?
Shearer- Spending 2.2 billion less now than in 1985, and about 1 billion of this is attributable to Energy Efficiency.

Suggested Next Steps for Task Force

It was agreed that the Secretary of Energy and others in DOE have no interest in FEMP and are not listening, so we should instead focus on the Hill.

California- specific.
400 % price increase - Navy.

Blum- need an argument sheet.
The Administration doesn't care, but the Congress should.

FEMP helps with reliability. '

Wagner- 1- 1/2 years- didn't want to lock in projects, because deregulation was going to lower prices."
Projects can lock prices.

Tempshin- Why can't the agencies go to bat for FEMP? They have other priorities.

Arguments for FEMP

Malcolm Need right political argument.
"Federal Government can't do its part by cutting funding in half."

1) Over the next two weeks, start developing working documents to present to Dave Hamilton. Separate meeting with the Hill, or leave it to Hamilton?

2) It was agreed that the Alliance and the Task Force need to come up with good arguments for the continued existence of FEMP. The best we have so far is "Every one million you cut wastes 6 million later" or, alternately stated, "
"One dollar of FEMP spending leads directly to six in private investment."

Wagner- pointed out the need for a strict dollar argument. We have to be able to say "If 12 million is cut from FEMP, it will cost ___million dollars over ___years."

It makes no sense to audit buildings and exempt buildings.

In 2 weeks, the Non-budget provisions.

Verdict- PNL study- one billion in projects

Wagner- "what does this proposal do to this?"

For an ESPC project, what are private investments?

Blum- Need an array of questions to use.

Shearer- the bulk of Wednesday's FEMAC's meeting was to be spent on setting priorities.

Prepare questions for a year from now, to speed up feedback.

An idea was floated Tell successes and opportunities.

Verdict suggested that in future report cards, they should ask for "3 best successes in 3 areas."

Maybe an example of 50 federal facilities in California.

GSA can say two months later.

NASA good.

Commerce has gotten better.

Navy (San Diego) expects a 100 million-dollar overrun.

When George W. Bush was still a candidate, he told AGA he would help federal energy management.

The OPT got cuts restored. FEMP didn't have the private sector batting for them.

Mark Wagner suggested that we need to get the message across that FEMP is not R&D corporate welfare, because it leads directly to real concrete projects.

The Alliance will develop a fact sheet on

If you have comments on these minutes, contact Malcolm Verdict @ 202.530.2213

Thank you.

FEP Meeting Attendees

Member	Company	E-mail
Beth Shearer	FEMP	
Jared Blum	Polyisocyanurate Insulation Manufacturers Association	joblum@pima.org
Mark Wagner	Johnson Controls	mark.f.wagner@jci.com
Paula Prah	Honeywell	paula.prah@honeywell.com
Jeff Harris	LBNL	
	LBNL	
Rick Tempshin	Edison Electric Institute	
Jennifer Schafer	American Gas Cooling Center	jasca@bellatlantic.net
Malcolm Verdict	Alliance to Save Energy	Mverdict@ase.org
Mark Hopkins	Alliance to Save Energy	mhopkins@ase.org
Luther Dudich	Alliance to Save Energy	ldudich@ase.org
David Hamilton	Alliance to Save Energy	Dham@ase.org

Federal Energy Productivity (FEP) Task Force
2/7/2002 Minutes

The Federal Energy Productivity Task Force met Monday, February 7th, from 9:45 AM – 12:00 noon in the 2nd Floor Conference Room of Dewey-Ballantine.

Agenda items included:

- 1) Introductions and Briefing on the Federal Energy Management Advisory Committee
- Mark Hopkins, Alliance Vice-President and acting FEP Program Manager, and
Jared Blum, President of the Polyisocyanurate Insulation Manufacturers Association
- 2) Update and Q&A on Federal Energy Management Program, Accomplishments and Key Issues
- Beth Shearer, Director, Federal Energy Management Program
- 3) Update and Q&A on House and Senate Legislative Provisions to Improve Federal Energy Use
- Kara Saul Rinaldi, Alliance Deputy Policy Director
- 4) Roundtable Discussion about Future Actions by Task Force - Mark Hopkins/group
- 5) Other & Next Steps

Those present included:

Jared Blum (by phone)-	PIMA
Beth Shearer	FEMP
Doug Norland	NREL
Malcolm Verdict	TAMU
Jeffrey Harris	LBNL
Mark Wagner	Johnson Controls
Alicia Collier	Honeywell
Bill Pitkin	NIA
Eric DeVito	Brickfield, Burchette, Ritts & Stone, PC
Patrick Hughes	ORNL
Bruce K. Coburn	EPS Capital
Steve Boyle	Trigen
Bill Nitze	Gemstar Group
Sara Quinn	GHPC
Glen Hahn	Spirax Sarco
Karen Thomas	EERE
Sky Schiller	FEMP
Mark Hopkins	Alliance to Save Energy
Kara Saul Rinaldi	Alliance to Save Energy
Ronnie Kweiler	Alliance to Save Energy
Luther Dudich	Alliance to Save Energy

Introductory remarks:

Mark Hopkins

Opened with some comments about the transition at the Alliance in the FEP Program with Malcolm Verdict leaving and Mr. Hopkins taking over the program for the time being.

Jared Blum

Energy is a high priority now. FEMAC, the Federal Energy Management Advisory Committee, has been doing a great job of getting private input to FEMP. FEMAC has met five times since its inception. There will be an annual report released next week. Mr. Blum said they had been well serviced by the FEMP staff and contractors, especially Steve Huff, who has unfortunately had to take a leave of absence due to a very serious illness.

There are seven topics that were considered current priorities by FEMAC:

- 1) Project financing (ESPCs)
- 2) Overall E.O. 13123 implementation
- 3) Information distribution
- 4) Clarification of the role of FEMP
- 5) Clarification of policy
- 6) External drivers
- 7) Goals and measurements of achievements

There were four key areas of concern for the future:

- 1) the FEMP budget
- 2) ESPC's
- 3) Sustainable design
- 4) New energy-saving technologies

Year in review:

Beth Shearer

This time last year, California was in the middle of black-outs. This drove FEMP's work at that time, which included the formation of ALERT Teams to do operation & maintenance work to implement low-cost/ no-cost energy savings. These ALERT teams, made up of FEMP regional staff, National lab personnel, and sub-contractors, will continue to work as needed in New England, the Northwest, and California. Short term metering at some of the sites is occurring after the work of the ALERT teams is done. Ms. Shearer is talking to the Office of Industrial Technologies to learn more about their showcase projects.

Ms. Shearer got audience input on FEMP at several public meetings, including one very productive session in Kansas City. After the California electricity debacle, people were interested in distributed generation and load reduction.

President George W. Bush issued Executive Order 13221 on minimal stand-by power standards, better known as the "Vampire Devices" E.O. The standby power implementation continues. In six months, FEMP will get a database of products meeting this standard to GSA.

On the alternate financing front, there were \$120 million in ESPC orders this past year, almost double the previous year. Utility financing went up to \$220 Million. FEMP is hiring marketing people to develop FEMP services and pitch them to agencies in each of their regional offices.

The Proposed Administration FEMP Budget:

Beth Shearer

In the budget battles FEMP has gone through, the FEMAC members have been very helpful, by writing articles and paying visits to Congressional offices. Energy Secretary Abraham is a big support of FEMP now, especially since energy security is more important than ever after 9-11. FEMP's budget request this year is \$28 million, with an additional \$3 million for departmental budgets.

Three key project areas:

- 1) Biomass ESPC has been awarded to five contractors. This will help energy security. Ms. Shearer said that the biggest priority of EERE has been to end the U.S.'s dependence on foreign oil, chiefly through development of bio-fuels.
- 2) Distributed Generation/ Combined Heat and Power
- 3) Technical Assistance and Guidance

Discussion:

Group

The concern was raised that marketers should send a message to the executives at the top rather than focusing on lower level energy managers. Low-mid level managers are often resistant to financing.

The federal marketplace has been used as a driver for technologies in the past, notably for high efficiency rooftop air conditioner units and compact fluorescent light bulbs. Sweden has done this for years. There is consideration being given to leasing of roofs as a system, in order to work on the whole thing.

A brief discussion of exempt facilities led Ms. Shearer to talk in depth about this topic. Exempt facilities account for only 2% of all federal energy use, and therefore are not that important. The FEMP website has an office-by-office list of energy intensity at the 27 major agencies. According to their scorecards, DOD has cut their on site BTU's by 23% since 1985. GSA has cut it by 20%. EPA, while not meeting the 20% goal, has a very successful ESPC in Michigan, and, after initial reluctance, has become the biggest purchaser of green power. The USPS has an issue with the requirements—due to the unique nature of their work, they are very energy intensive. The energy use per square foot has increased; however, the energy use per mail item has decreased. This could be included in industrial energy.

Policy Update:

Kara Saul Rinaldi

There are currently two bills that have the potential to profoundly affect FEMP currently making their way up Capitol Hill. H.R.4, the Securing America's Future Energy Act of 2001, passed the House with significant FEMP provisions. Some of the highlights include:

- Goals: Increasing energy goals in steps to ensure FY 2020 is at least 45% less energy consumption compared with 1985.
- Meters: Requiring all federal buildings be metered and submetered by Oct. 1, 2004 with guidelines developed by the Secretary of Energy.
- Requiring the use of metered interval data by all federal agencies.
- Procurement: Requiring purchases of Energy Star products or FEMP designated. GSA and DLA listing.
- Exemptions: Only allowing exemptions for buildings to come from the President for national security reasons.

FEMP fares well in S.1766, the Energy Policy Act of 2002. (Note: these provisions are now in S. 517, which is currently being debated in the Senate). In addition to many of the provisions in the House bill, this bill has these notable items:

- Goals: baseline changed from 1985 to 2000, 2% annual reduction through 2011.
- Building Design: meet or exceed Energy Star, ASHRAE 90.1, or 2000 IECC.
- Capitol Visitor Center: use and exhibit of energy efficiency and renewable energy.
- Federal Energy Bank: \$1 billion revolving fund subject to appropriations.

This last point is significant because this is the first time that an Energy Bank has made it into a bill in either house of Congress.

There was a lot of discussion about the proposed Energy Bank in S. 1766. There was a concern that the 10 year pay back period in the legislation could be limiting to the usefulness of the Bank. This limitation might lead to the Bank being used to fund the "low-hanging fruit", rather than the more difficult-to-finance projects the Bank is intended to help. There was also question about whether the Energy Bank might conflict with private lenders. After some discussion, it was decided that the benefits of having a bank outweighed any potential problems, so it was decided to support the provision. It was suggested that a letter from the Task Force supporting this go to the Senate, but it was pointed out that the Task Force had already sent out a letter to Senator Bayh supporting the Energy Bank. The next step would be to get it funded.

This bill may stall out due to arguments over other issues, specifically ANWR and CAFE standards. If this does happen, this bill will be the basis for future legislation.

Suggestions for future actions:

- It was proposed that the Task Force call for congressional oversight hearings on the implementation of FEMP at federal agencies.
- The Task Force wants to explore the business case for energy efficiency by defining economic, social, and environmental benefits. FEMAC member Professor Vivian Loftness has done a study on the link between energy efficiency and productivity. Beth Shearer is very interested in this work, which may prove to be a very important avenue in the future to getting funding for efficiency projects. She has taken Government Accounting Office staff to the "Intelligent Workplace" Carnegie Mellon has built near Pittsburgh, PA and is taking David Walker, the Comptroller General, there on February 27th.
- The Task Force will begin to look at leasing as a policy option for federal energy management.

Attachment 9:

**Electronic Newsletter to Federal
Energy Managers**

The Alliance to Save Energy's Federal Energy Productivity Monthly Newsletter

September/October 1999

A recap of the month's major activities...

- The Alliance to Save Energy and the Department of Energy co-hosted an FEMP energy metering workshop for federal personnel on September 16th in Seattle, WA. Presenters explained the multiple benefits and requirements for metered energy data, including utility billing.
- The Alliance's Federal Energy Productivity Program Task Force met October 5th. Beth Shearer, FEMP Director and Shelley Fidler of the White House Climate Change Task Force were the invited speakers. The Task Force discussed implementation of the new FEMP Executive Order 13123 and the Alliance Federal Energy Productivity Task Force's desire to help implement the new mandates.
 - Shelley Fidler stated the new FEMP Executive Order is off to a good start but is faced with serious challenges with buy-in lacking by senior level officials in some agencies and middle management at OMB. However, Shelly stated there is enthusiastic support for the new E.O. by three top managers at the OMB, including the deputy director.
 - FEMP has invited senior Administration officials, environmental agency heads, and private sector partners to the first White House FEMP Workshop for senior level federal managers to be held November 8th.
 - The White House is planning a campaign, at President Clinton's personal request, to publicize the continued success of the "Greening the White House" and to announce further commitments by the White House to cut it's energy usage.
- Joan Glickman, Deputy Director of FEMP, stated that five major E.O. provisions must be finished by DOE by December 6, 1999 and that OMB was developing the agency scorecard.
- Ned Raynolds, Alliance FEMP policy associate, stated the FY2000 FEMP contains level funding in both the House & Senate appropriations bills. He also summed up the Cochran(R-MS) amendment to the appropriations bill which would have prevented implementation of E.O. 12123. Thanks to the leadership of Senator Bingaman, compromise language was adopted that will allow the Executive Order to take effect as planned.
- Finally, Ned stated that the Senate Energy & Natural Resources Committee had tentatively scheduled an oversight hearing on the FEMP program for late October. Unfortunately, it has

now been canceled.

Meetings and Workshops...

- **Cancellation** -- Note, the October 13th meeting of the National Capital Regional Chapter of AESP on the FEMP program was canceled!

- The second meeting of the Energy Intensive Facilities FEMP Working Group is scheduled for October 14th at DOE Headquarters. Alliance staff will monitor this meeting and other critical working group meetings for the Task Force.

- There are three FEMP-related events at the Georgia World Congress Center in Atlanta, GA:

1. The Alliance, in conjunction with the Department of Energy, FEMP, and the Atlanta DOE Regional Support Office, will conduct a second Energy Metering Workshop on October 19th for federal energy managers. Contact Luther Dudich at 202-530-2243 for more information.
2. FEMP will hold a Super ESPC Workshop on October 18th. For more information, call Susanne Pile at 703-243-8343.
3. The 22nd World Energy Engineering Congress, sponsored by the Association of Energy Engineers will be held at the World Energy Congress Center, October 20-22nd. FEMP is encouraging federal energy managers to attend at a reduced price.

- Finally, the Government Contracting Institute will hold a "Federal Contracting 2000: Navigating the Maze of Change" at the Swissotel in Washington, DC November 15-16th. Energy performance contracting will be covered. To learn more, call 800-260-1545.

If you have questions about items in this newsletter, please contact Luther Dudich at 202-530-2243 or email ldudich@ase.org. Thank you.

The Alliance to Save Energy's Federal Energy Productivity Monthly Newsletter

November 1999

A recap of the month's major activities...

- **White House Touts Executive Order and Trains Senior Federal Energy Managers**
- **Executive Order 13123 Implementation Status Report**
- **DOE Efficiency Programs Get Last-Minute \$56 Million Budget Boost**
- **Federal Agencies Receive Awards With Help From Alliance Associates**
- **"Greening of White House" - Round Two**

White House Touts Executive Order and Trains Senior Federal Energy Managers

The White House held a workshop Nov. 8th on Executive Order 13123, ***Greening the Government Through Efficient Energy Management***, to demonstrate the importance President Clinton places on the implementation of his order requiring the federal government to reduce its energy use 35 percent by 2010 compared to 1985 levels. Several hundred energy management and procurement officials from most of the major federal departments attended as well as Mark Hopkins, Alliance Vice President.

White House Chief of Staff John Podesta kicked off the workshop with an upbeat discussion of the president's commitment to energy saving at federal facilities. Representing the private sector, Ben Montoya, Chairman, President and CEO of Public Service Company of New Mexico, highlighted the commitment of the utility industry and others in the private sector to lend their technical and financial resources to the federal government. Sally Katsen, the Deputy Director of Management at the Office of Management and Budget, a big supporter of the executive order, also stressed OMB's commitment to the order.

Participants attended a series of break-out sessions during the day to learn about all the tools that are available to help them in their energy-saving efforts. This included briefings on the executive order itself, alternative financing, and ENERGY STAR Buildings. In addition, workshops were held on procurement, U.S. Department of Energy (DOE) programs, and sustainable design. Also included were workshops on General Services Administration and DLA green-buying programs, energy-saving performance contracting, and renewable energy.

Perhaps the most interesting session was held on performance contracting. A number of key issues were debated such as criteria for including operations and maintenance savings in performance contracts, bundling quick and longer term payback measures, and retention of

savings. The discussion with DOE, OMB and the private sector representatives was extremely informative and helpful in clarifying issues and perspectives. However, it was clear from the discussion that OMB and DOE have differing perspectives from the private sector on many key issues.

You can download the Executive Order:

<http://www.eren.doe.gov/femp/aboutfemp/exec13123.html>

Executive Order 13123 Implementation Status Report

Executive Order 13123 calls for guidance to be issued within 180 days (Dec 1999) by DOE and OMB on several key topics:

- Credit Where Source Use Decreases and Site Increases
- Energy Intensive Buildings Performance Measures (Btu's/units of production)
- Exempt Building Criteria
- Water Consumption Baseline
- Life Cycle Cost Analysis

DOE/FEMP formed several interagency working groups to develop guidance in these five areas. The Alliance Federal Energy Productivity Task Force submitted comments on Energy Intensive Buildings and Exempt Buildings Criteria. When final guidance is released in December, it will be forwarded to members of the Alliance Task Force.

DOE Efficiency Programs Get Last-Minute \$56 Million Budget Boost

Clinton Administration negotiators emerged on Monday from often contentious negotiations over the Interior Appropriations bill with an additional \$56 million for the U.S. Department of Energy's energy-efficiency programs - a 9 percent increase over last year's expenditure on energy-efficiency research, development, and deployment.

The FEMP program received level funding of **\$23,918,000**. Although not official yet, the budget breakout includes: Project Financing \$9,864,000; Planning and Evaluation \$4,400,000; Program Direction \$2,200,000; Technical Assistance \$7,454,000. Complete DOE/EERE budget details will be posted at <http://www.ase.org/takeaction> when they are official.

Federal Agencies Receive Awards With Help of Alliance Associates

Many federal agencies and employees are already doing an outstanding job of reducing energy waste and the best of them were recognized at the 1999 Federal Energy Awards Program. Many of these projects were made possible from alternative financing and technical assistance provided by Alliance Associates.

Project summaries are located at:

<http://www.eren.doe.gov/femp/newsevents/awards/winners99.html#energy.org>

"Greening of White House" - Round Two

As of press time, a December 2nd announcement has been tentatively scheduled regarding the ongoing energy efficiency improvements at the White House and President Clinton's personal determination to make sure the White House sets an example for all to follow. As more information is released, we will keep you up to date. You may recall, the Administration removed the White House from the "exempt" building category when the Alliance pointed out the large number of federal buildings exempted from meeting the energy savings goal.

If you have questions about items in this newsletter or need additional information, please contact Malcolm Verdict at 202-530-2213 or email mverdict@ase.org. Thank you.

The Alliance to Save Energy's Federal Energy Productivity Newsletter

December 1999/January 2000

In the News

Executive Order 13123 Implementation Update

Senator Bingaman Expresses Strong Interest in E.O. Implementation To White House

On December 1, 1999, Sen. Jeff Bingaman wrote President Clinton applauding his leadership for issuing the E.O. and pledging to monitor agencies' progress in meeting the goals as well as a willingness to identify any legislative and budgetary obstacles to the order's successful implementation. For a copy of Sen. Bingaman's letter, please contact the Alliance FEP staff.

DOE Releases E. O. Guidance -- Three Down and Two to Go

FEMP's interagency working groups completed program guidance in December on three of the five areas assigned to DOE under E. O. 13123: 1) Exempt Facilities Criteria, 2) Energy Intensive Facilities, and 3) Establishing Water Usage Baselines. Final guidance on Source Reduction Credits and Life Cycle Cost Analysis should be completed hopefully by the end of January.

With valuable input from members of the Alliance Federal Energy Productivity Task Force and Alliance staff, DOE closed major loopholes for exempt facilities. Previously, agencies had exempted over 17% of all Federal buildings. Also, the new energy intensive facilities guidance establishes two new rate-based measures for measuring energy usage performance: 1) Btu/production unit such as Btu/pound of coins produced and 2) Btu/performance unit such as Btu/number of experiments performed. Copies of the new E.O. guidance are attached as Word documents.

OMB Misses Critical E.O. Guidance Deadline

OMB missed a critical October deadline for issuing detailed guidance to agency budget officers for preparing agency budget requests necessary to achieve the goals under the E.O. Alliance has written the head of OMB requesting an immediate meeting to determine how they intend to fulfill their critical role under the E.O.

FEMP Announces Plan To Establish Public Private Advisory Committee

FEMP announced at last week's Interagency Energy Management Task Force, plans to establish the public private advisory committee on federal energy management created by the E.O. FEMP is accepting names from volunteer participants. FEMP will most likely announce its creation and provide a call for membership in the Federal Register. No target date for creation has been determined, given the lead times necessary to publish in the Federal register.

"656" Federal Interagency Energy Policy Committee To Meet

FEMP announced a closed meeting of the senior level agency officials at the Assistant Secretary Level or above, who are responsible for meeting the goals of E.O. 13123 on Monday, January 24th at DOE headquarters to discuss implantation progress and other policy matters.

Industrial and Federal Laboratory Facilities

FEMP Seeks Assistance from DOE's Office of Industrial Technology

With a new energy savings goal of 25% for energy intensive industrial and laboratory facilities, FEMP and DOE's Office of Industrial Technologies (OIT) are investigating ways to make existing technical assistance for the private sector more readily available to federal energy managers. OIT offers technical assistance on motors, steam, combined heat and power, and compressed air to industrial facilities. Alliance staff met recently with the FEMP and OIT directors to suggest ways they could work more closely together. Obtain more information on OIT's technical assistance at <http://www.oit.doe.gov/techdeliv.shtml>.

EPA's "Laboratories for 21st Century " Software Design Guide Available

EPA has produced "A Design Guide for Energy-Efficient Research Laboratories" to assist facility owners, architects, engineers, designers, facility managers, and utility energy-manager specialists identify and apply advanced energy-efficiency technologies in energy intensive research facilities such as national laboratories. You may download the design guide at <http://ateam.lbl.gov/Design-Guide/>.

Other Items of Note

Energy Efficiency Upgrades Continue at White House

On December 2, 1999, the Administration announced savings of \$1.4 million since 1993 from energy and resource efficiency upgrades, including lighting, building envelope, and waste reduction improvements. The Alliance and several associates served on the initial assessment team in 1993 for the "Greening of the White House" initiative led by FEMP. You can download copies of the report, which lists all the improvements and organizations involved, at <http://www.eren.doe.gov/femp>.

DOE Continues to Offer Low-priced Compact Fluorescent Lamps (CFLs) to Agencies

As part of a special DOE program, a group of lighting manufacturers is offering energy-efficient and long lasting sub-CFLs at very competitive prices to bulk purchasers such as multifamily building owners/operators, universities, public housing authorities, federal agencies and lighting product resellers. Prices range from \$5.75 to \$9.61 per lamp, depending on lamp type and delivery zone. For more information on this project go to the following web site: <http://www.pnl.gov/cfl/>.

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301-903-3118 301-903-9271 (fax) <judy.hockenbery@hq.doe.gov>

If you would like this publication electronically, express your interest to
<ssstanley@mcneiltech.com>.

Workshops and Conferences

1. DOE/FEMP Energy 2000 Energy Efficiency Exposition and Workshop is scheduled for August 21-23, in Pittsburgh, PA. Information will soon be available at the following web site: <<http://www.energy2000.ce.doe.gov/>>.
2. For other events, check the FEMP Calendar at:
<<http://www.eren.doe.gov/femp/newsevents/calendar.html>>.

For questions about items in this newsletter, contact Alison Tribble at 202-857-0666 or email atribble@ase.org.

The Alliance to Save Energy's Federal Energy Productivity Newsletter

February/March 2000

In the News

Executive Order 13123 Implementation Update

News from the Hill

Federal Industrial Facilities Pilot

Meetings, Workshops and Conferences

A. Executive Order 13123 Implementation Update

DOE E.O. Guidance – DOE has issued four of the six E.O. guidelines due last December. Guidance on Source Credits and Life Cycle Cost analysis will be issued in the near future. FEMP has indicated the Source guidance will be based upon their 12/10/99 draft. Copies of guidance may be downloaded at <http://www.eren.doc.gov/femp/> under news and events.

DOE - Public Private Advisory Committee -- FEMP staff have begun the initial process of creating a public/private advisory group under the Federal Advisory Committee Act (FACA). The process can take 1.5 FTEs a year to complete. Under FACA, DOE must publicly solicit nominations through the Federal Register from interested individuals.

OMB - Federal Energy Management -- FEMP program was made one of 24 Priority Management Objectives by President Clinton for government wide, heightened attention. All agencies must report monthly at the President's Management Council their progress on agency specific goals and resources required to better coordinate planning and budgeting.

OMB - E.O. Action Items -- Alliance staff met with Deidre Lee, Deputy Director of Management and OMB staff on 2/22/00 concerning progress on the large number of incomplete OMB action items under the E.O. OMB fully intends to insure aggressive implementation by all agencies. OMB plans to issue additional, detailed guidance (A-11) for the FY2002 agency budget submissions as well as detailed guidance for Implementation Plans and Reports to the President due January 1, 2001.

OMB - Report Cards -- OMB issued agency score cards in February which were turned in at the President's Management Council on 3/1/00. OMB staff indicated they would issue a report on agency compliance with the E.O. in April.

B. News From the Hill

Senate Committee on Budget -- 2/1/00 Comptroller General David Walker testified on the need for VA hospital closures over next 20 years due to projected decreases in the number of veterans. DOE laboratories were also recommended for consolidation to correct redundant missions and support infrastructure.

President's Budget Request -- The President's FY2001 Budget Request, sent to Congress early last month, includes a 23.2% increase for the Federal Energy Management Program, requesting approximately \$29.5 million compared to an enacted FY2000 budget of 23.9 million

C. Federal Industrial Facilities

Alliance staff is coordinating a proposed demonstration project of an energy intensive facility in the Northwest, combining the technical resources of FEMP and DOE's Office of Industrial Technologies (OIT). An initial feasibility meeting for a process audit is planned at the Puget Sound Naval Yard in Bremerton, WA on April 28th.

D. Meetings, Workshops and Conferences

- Alliance Federal Energy Productivity Task Force members will meet on May 2nd, 2000 in Washington, DC to discuss issuing FEMP/agency report cards.
- Alliance will conduct two Metering Workshops -- summer location (to be announced) and fall location (World Energy Congress, Atlanta).
- DOE/FEMP Energy 2000 Energy Efficiency Exposition and Workshop is scheduled for August 21-23, in Pittsburgh, PA. Information will soon be available at the following web site: <<http://www.energy2000.ee.doe.gov/>>.
- For other events, check the FEMP calendar at: <<http://www.eren.doe.gov/femp/>>.

Other Items of Note

- The Alliance's Federal Energy Productivity Task Force announces new chairperson, Jared Blum of PIMA, and co-chair, Paula Prah, of Honeywell to fill the vacancy created by the departure of Glen Skovholt.
- FEMP has four software screening tools available [FEDS 4.1, Fresa 2.5, WATERGY 1.0, and BLCC 5.0] available for download at <<http://www.eren.doe.gov/femp/>> under technical assistance/software tools.

For questions about items in this newsletter, contact Alison Tribble at 202-857-0666 or email atribble@ase.org.

The Alliance to Save Energy's Federal Energy Productivity Task Force Newsletter April/June 2000

In the News

E.O. 13123 One Year Anniversary & Status

Alliance FEP Task Force

News from the Hill

Meetings and Workshops

Executive Order 13123 - One Year Anniversary

June 3rd marked the one-year anniversary of Executive Order 13123. David Nemtzw, Alliance President, Senator Jeff Bingaman, Alliance Board Chair and Dave Parker, AGA President, all wrote letters to the President noting the measurable progress but voicing concerns about the implementation of E.O 13123. Contact mverdict@ase.org for copies of this correspondence.

E.O. 13123 Implementation - Status

OMB - Score Cards – On Earth Day, April 22nd, the White House released a "The Greening of the White House" report, which included a section on progress through 1999 by federal agencies in meeting their energy reduction targets. According to this report, the Federal government is making excellent progress, having met its Year 2000 energy consumption reduction goal of 20 percent reduction one year early in 1999. However, the Alliance noted in its June letter to President Clinton that total investments in energy improvements were half of the recommended amount of \$500 million annually necessary to achieve its 2010 goals.

E.O. Guidance - DOE has issued several E.O. Guidance documents but eight items, two from December 1999 and four from June 2000, are in arrears. For a listing of all required E.O. guidance, see the enclosed document.

New Annual Reports, Implementation Plan, Scorecards, and FY2002 A-11 Budget Guidance -- FEMP and the Office of Management and Budget released guidance to agencies last week for their mandatory annual reports to the President and Congress, Implementation Plans, FY2002 Energy Efficiency Budgets Requests, and their FY2000 scorecards. This guidance is greatly improved over the FY1999 version. For copies of these documents, email ldudich@ase.org.

DOE - Public Private Advisory Committee – FEMP has drafted a Federal Register notice, which is under internal review, creating this important committee. For questions or timelines, please contact Steve Huff @ 202-586-3507. David Nemtzw, Alliance President, and several members of the Federal Energy Productivity Task Force have submitted their names in nomination.

NEW DOE Guidance for ESPC Contracts at DOE Sites -- T. J. Glauthier, Deputy Secretary of Energy, released guidance last week to greatly facilitate the use of ESPC contracts at DOE sites. A copy of the guidance is attached.

FEP Task Force Meeting

The Alliance's Federal Energy Productivity Task Force met on May 2nd, 2000 in Washington, DC. Guest speakers included Wesley Warren, Shelley Fidler, and Joan Glickman. Agency scorecards, E.O. implementation progress, and building strong support for the FEMP initiative under the next administration were discussed.

News from the Hill

Congressional Notification Threshold -- The Congressional notification threshold for ESPC awards may be raised. The Senate Interior Appropriations Subcommittee has included language raising the threshold to \$10 million from the current \$750,000 in its bill for FY2001. The bill was being considered on the floor as this article went to press. Staff for the House Interior Appropriations Committee have indicated they will not oppose the change in conference committee as long as the authorizing committee of jurisdiction (Commerce Committee) gives it the green light. The Alliance policy team and our allies will meet with Commerce Committee staff to make a strong case for this long-overdue change which has been a deterrent to timely implementation of projects.

FEMP Appropriations -- Funding for the FEMP Program is up only slightly in the House version of the FY2001 Interior Appropriations bill. The Committee specified an increase of half a million dollars for the 'Program Direction' account [FY2000: \$2.2 million] and funded program activities at last year's level of \$21.7 million. In the Senate version, the committee bumped the 'Program Direction' account by \$800,000, and boosted the total for program activities by \$1.08 million above the FY 2000 level.

Meetings, Workshops and Conferences

- The Energy 2000 energy efficiency workshop and exposition, sponsored by FEMP, the Department of Defense and the General Services Administration, will be held in Pittsburgh, PA August 21 through 23. For more information or to register, visit: <http://www.energy2000.ee.doe.gov/>.
- Globe Ex 2000, the 8th International Energy and the official Conference of the International Energy Foundation, will be held in cooperation with the Global Energy Exposition produced by the Nevada Test Site Corporation in Las Vegas, Nevada from July 23rd through the 28th. To learn more about the conference, or to register, visit the [GlobeEx 2000](http://globeex.com/) home page-<http://globeex.com/> or contact [Suzanne Ulrich](mailto:Suzanne.Ulrich@eren.doe.gov) at 702-257-7900.
- The Alliance will conduct a metering workshop for federal energy managers and contractors in Atlanta prior to the World Energy Congress on Oct. 23 at the Georgia World Congress Center. For more information, contact Luther Dudich or Malcolm Verdict at the Alliance at 202-857-0666. Registration information will be mailed the last week of July.
- For other events, check the FEMP calendar at: <http://www.eren.doe.gov/femp/>.

Other Items of Note

Federal Agencies and Green Power

Oak Ridge Laboratory Signs Up For TVA Green Power

DOE's Oak Ridge National Laboratory has announced plans to purchase 675,000 kilowatt-hours per year of electricity generated from renewable energy sources from the Tennessee Valley Authority's

(TVA) "Green Power Switch" program. This makes Oak Ridge one of the first industrial participants in TVA's green power program. More information can be found at:
http://www.eren.doe.gov/greenpower/tva_0600.shtml

30 Colorado Federal Agencies Make Record Wind Purchase

DOE announced that 30 federal agencies along Colorado's Front Range have committed to purchase more than 10 megawatts of wind energy. This is the largest wind energy purchase ever, providing the equivalent amount of wind energy to power 3500 homes in Colorado.
<<<http://home.doe.gov/news/releases00/aprpr/pr00119.htm>>>

DOE to Buy 7.5 Percent Green Power by 2010

DOE marked Earth Day 2000 by becoming the first federal agency commit to purchasing a specific portion of its electricity from green power sources department-wide. DOE will buy 3 percent of its total electricity needs from non-hydro, renewable energy sources by 2005, and 7.5 percent of its electricity from green power by 2010. <<http://home.doe.gov/news/releases00/aprpr/pr00114.htm>>.

Postal Service Buys Green Power for California Facilities

On Earth Day 2000, the U.S. Postal Service (USPS) announced a green power purchase totaling more than 30 million kilowatt-hours of electricity over the next three years. This contract with Go-Green.com to supply 100-percent green power to 1,000 USPS facilities in California makes it one of the largest purchases of green power in the United States.
<http://www.go-green.com/press_releases.htm#USPS_SB>.

- DOE has awarded almost \$4 million to 46 ventures to purchase alternative fuel vehicles, refueling infrastructure, school buses that run on alternative fuels, advanced vehicle technologies, and the development of Clean Cities organizations in 19 states. Another \$1.2 million was awarded for rebates to buy-down the cost of alternative fuel vehicles operating in private and local government fleets and to support stakeholder conferences.

For questions about items in this newsletter, contact Malcolm Verdict at 202-857-0666 or email mverdict@ase.org.

The Alliance to Save Energy's Federal Energy Productivity Task Force Newsletter October 2000

DOE Public Private Advisory Committee Holds Charter Meeting

DOE convened its newly appointed Federal Energy Management Advisory Committee (FEMAC) on October 23 - 24 in Washington, DC. FEMAC was created by Presidential Executive Order (E.O.) 13123. Asst. Secretary Reicher addressed the group and indicated how important their input was to help insure the future success of the FEMP program.

Beth Shearer, Director of the Federal Energy Management Program (FEMP), will chair the group selected for their expertise in a wide range of areas named in the E.O. The 10 members include:

- Jared Blum, President, Polyisocyanurate Insulation Manufacturers Association and Alliance Federal Energy Task Force Chair.
- Cynthia Vallina, Management Analyst, Executive Office of the President, Office of Management & Budget.
- Shelley N. Fidler, Legislative Assistant to Rep. Frank of Mass., former DOE Senior Advisor and Principal Deputy, White House Climate Change Task Force.
- Richard W. Earl, Vice President, PB Facilities (Parsons-Brinkerhoff Company), former Director of DOE's Infrastructure Support Services.
- Robert E. Collins, Jr., Principal Engineer and State/Federal Governmental Accounts Manager, Tampa Electric and Peoples Gas Companies.
- Erbin Keith, Exec VP/Counsel, Semper Energy Solutions, LLC.
- Kenneth Calvin, Interim Director, Mississippi State Energy Division.
- Start Berjanski, Government Accounts Manager, Philips Lighting.
- Vivian Loftness, Professor of Architecture and Head School of Architecture, Carnegie Mellon University.
- Mary M. Palomino, Energy Conservation Manager, Salt River Project.

The group discussed the short and long term goals of the committee and creating four working groups -- Budget, ESPC's, Sustainable Design, and New Technologies -- to accomplish its mission. The working groups can include any number of members from outside the committee. The next meeting of FEMAC is planned the last week in January 2001. Jared Blum stated "the meeting was highly successful and was excited how receptive FEMP management is to outside suggestions on program direction."

Alliance FEP Task Force Discusses New Administration Transition

The Alliance FEP Task Force met Oct. 5th to discuss the current success at FEMP with implementing E.O. 13123. Beth Shearer indicated that implementation and reporting guidance for E.O. 13123 was complete and that individual agencies were required to submit the first draft of the annual report to the Congress and President by the end of September -- 90 days earlier than last year to comply with the E.O. She also indicated: 1) that industrial facilities were now a FEMP priority and exemptions for energy intensive facilities were no longer automatic, 2) that internal policy guidance for DOE's ESPCs was issued in July to expedite the contracting

process while providing due diligence, and 3) the first meeting of the FEMP Public/Private Advisory Committee was planned for the last week of October.

The Task Force and Alliance management decided to create a transition document for the next Administration from a private-sector perspective to insure the Federal Energy Management Program remains a high priority and builds upon past successes. This document will be available in early November.

Hill Report

The FEMP appropriations for FY 2001 contain an increase of 7.6 percent to \$25.7 million. Just as noteworthy, the bill contains language that raises the threshold for required Congressional notification by federal agencies entering into an Energy Savings Performance Contract (ESPC) from \$750,000 to \$10 million, eliminating this long-standing, unintended barrier to their more widespread use. For detailed information, please contact Ned Raynolds at nraynolds@ase.org.

1999 Federal Energy Management and Presidential Awards

FEMP Awards - The Department of Energy Federal Energy Management Awards Ceremony were held on October 12 at the Hotel Washington in DC. The awards honored individuals, small groups, and organizations in the Federal Government that have made great efforts in conserving energy in accordance with Executive Order 13123.

Presidential Awards - On Friday, October 20, four federal agency teams and 30 federal employees were honored at a White House ceremony for their successful efforts to save energy and money at federal facilities. Individual awardees may be found on the FEMP web site at www.eren.doe.gov/femp. This new category of awards was created by E.O. 13123 and recognizes team/agency wide efforts as well as individual projects accomplished by the team.

E.O. 13123 Implementation Guidance- Status

E.O. Guidance - On July 31st, The Secretary Richardson released the remaining Executive Order Guidance documents as follows:

- Guidance on Life-Cycle Cost Analysis
- Guidance for Providing Credit Toward Energy Efficiency Goals for Cost-effective Projects Where Source Energy Use Declines but Site Energy Use Increases
- Guidance for Counting Renewable Energy Projects and Green Energy Purchases Toward Progress in Reaching Greenhouse Gas and Energy Reduction Goals
- Guidance for Estimating Greenhouse Gas Emissions Attributable to Facility Energy Use
- Guidance on Federal Government Renewable Energy Goal
- Guidance to Establish Water Efficiency Improvement Goal for Federal Agencies

This guidance is available at www.eren.doe.gov/femp/aboutfemp/secondtransferletter.html.

Meetings, Workshops and Conferences

- The Alliance conducted a very successful **Energy Metering Workshop** for federal energy managers and contractors in Atlanta prior to the World Energy Congress on Oct. 24 at the Georgia World Congress Center. Fifty-two people participated and expressed a strong, on going interest in the use of metering to reduce energy consumption and to verify savings.

Information about individual presentations or future metering workshops maybe obtained by contacting Mverdict@ase.org.

- A two-day conference on **Renewable Energy - Market Outlook & Strategies - Current & Future** is planned in Denver, CO on November 29th and 30th. Arun Jhaveri, Regional Technology Manager, US Department of Energy will chair this event. Experts from the United States, Australia, the United Kingdom, the Netherlands, Malaysia, and Israel will participate. For more information contact Nadine Harris at 212-967-0095, ext. 238.
- **Energy Cross-Talk 2001:** A Peer-to-Peer Exchange for senior federal energy managers will take place January 22-24, 2001 in Orlando, FL. It is cosponsored by the U. S. Department of Energy and the General Services Administration in cooperation with the Alliance to Save Energy and Armstrong Service, Inc. This event is limited to 30 senior-level, federal energy managers. To register or more information, contact Matt Burdetsky at 703-207-1703 or online at <http://www.cmpinc.net/energycrosstalk>.
- For all public and federal training opportunities, FEMP has a Training Event Locator System ('LOCATOR') database system on the web at <http://www.eren.doe.gov/femp/resources/training/locator.html>. For other FEMP events, check their calendar at <http://www.eren.doe.gov/femp/>.

Other Items of Note

Energy Intensive Federal Facilities -

DOE's Best Practices program offers many resources that federal facility energy managers will find useful for saving process-use energy in motors, steam, and compressed air applications. Their web site at <http://www.oit.doe.gov/bestpractices/> contains a wealth of information, including:

- tip sheets, technical publications, and case studies of successful energy savings projects;
- databases of motor manufacturers, service providers, and energy, waste, and productivity recommendations; and
- software for selecting electric motors and adjustable speed drives, calculating the economic thickness of industrial insulation, and assessing pumping systems.

For questions about items in this newsletter, contact Luther Dudich at 202-530-2243 or email ldudich@ase.org.

The Alliance to Save Energy's Federal Energy Productivity Task Force Newsletter January 2001

Task Force Advises Bush Transition Team on FEMP Importance

The Alliance to Save Energy's Federal Energy Productivity Task Force, which produced the groundbreaking "Leading by Example" report on the Federal Energy Management Program (FEMP) in 1998, produced a new policy paper for the Department of Energy's transition team consideration. The report recommends five initiatives to strengthen and enhance policies contained in FEMP Executive Order 13123 and the Energy Policy Act. E.O. 13123 seeks to improve the federal government's energy management. The Task Force transition document points out ways to effectively increase agency accountability, increase funding for energy management projects, and deal with energy supply and pricing in deregulated utility markets.

For a copy of the Task Force FEMP transition recommendations, email Luther Dudich at ldudich@ase.org.

To read Executive Order 13123, please visit: <http://www.eren.doe.gov/femp/aboutfemp/exec13123.html>.

President Bush Convenes Energy Policy Development Group at White House

On January 29th, President Bush announced Vice President Cheney will chair a Cabinet level group to deal with the short and long term energy problems facing our nation. Cabinet members who attended Monday's meeting included Secretary of Energy Abraham, Treasury Secretary O'Neil, Commerce Secretary Evans, Transportation Secretary Mineta, and Agriculture Secretary Veneman. Development of a comprehensive domestic energy strategy was a major campaign issue for the Bush Administration and the Alliance's FEP Task Force is committed to making FEMP a key part of this comprehensive approach.

FEMP Public-Private Advisory Committee Holds Second Meeting

DOE re-convened its ten-member Federal Energy Management Advisory Committee (FEMAC) on January 25th-26th in Washington, DC. FEMAC was created by E.O. 13123 to advise the Secretary of Energy on the Federal Energy Management Program. Beth Shearer asked the group for input on FEMP's major programs, new internal priorities, and initiatives for FY2002. The group provided numerous ideas to FEMP staff and agreed to meet again in April and at Energy 2001. Alliance FEP chairman Jared Blum, who is a member of FEMAC, indicated the meeting was a success and was very encouraged that the FEMP staff was so open to private sector input. FEMAC is sending a letter to Secretary of Energy Abraham stressing the importance of FEMP to taxpayers.

Energy Cross-Talk 2001

A Peer-to-Peer Exchange for senior federal energy managers was held January 22-24, 2001 in Orlando, FL. It was co-sponsored by the U. S. Department of Energy and the General Services Administration in cooperation with the Alliance to Save Energy and Armstrong Service, Inc. By invitation only, the 35 participants shared common problems and solutions to improving agency energy management and gaining agency support. Based upon very favorable feedback from the participants, planning for a second peer-to-peer exchange is underway. Beth Shearer, FEMP Director, said the event was excellent and provided participants valuable insights.

From the Hill

Senate Bill Would Create Federal Energy Bank

On Jan. 22nd, Senator Kohl [D-Wis.] introduced legislation [S. 95] that would create a federal energy bank in the U.S. Treasury to fund energy efficiency projects in federal facilities when, to the extent practical, performance contracting funding is not available. The bank, to be administered by the Secretary of Energy, would require each agency transfer 5 percent of their total utilities for fiscal years 2002, 2003, and 2004 to the U.S. Treasury. The Alliance estimates the fund would grow to \$500 million over 3 years. For a copy of the bill, visit: <http://thomas.loc.gov/cgi-bin/query/z?c107:S.95>:

Meetings, Workshops and Conferences

POWER OUTAGES - Harbinger of Things to Come?

In the wake of the problems California has experienced with electricity prices and reliability, the Strategic Research Institute is holding this conference on February 12-13 in Washington, DC. The recent power problems, and the potential for more often and severe power outages in the future, has led industry experts to get together at this forum to assess the problem, discuss the issues, and seek solutions. It will cover all aspects of power outages through interactive sessions on Understanding the Problem, Promising Technologies, Potential Solutions, and Deregulation. For more information, contact Nadine Harris at nharris@srinstitute.com or 212-967-0095, ext. 238.

FEMP Training Opportunities

For all public and federal training opportunities, FEMP has a Training Event Locator System ('LOCATOR') database system on the web at <http://www.eren.doe.gov/femp/resources/training/locator.html>. For other FEMP events, check their calendar at <http://www.eren.doe.gov/femp/>.

Other Items of Note

Hybrid Fuel Cell-Turbine System Planned for Federal Site

DOE has announced plans to power an EPA's Environmental Science Center facility in Fort Meade, Maryland, with a revolutionary hybrid system that combines a fuel cell with a microturbine. The Siemens-Westinghouse Power Corporation will build the 1,000-kilowatt power plant, which uses tubular ceramic fuel cells that operate under high pressure. The hot, pressurized exhaust gas is then used to power the microturbine. The combination of an all-solid state fuel cell and a microturbine will be the largest of its type in the world. The system should be operational by mid-2002. For more information, see the DOE press release at: <http://www.energy.gov/HQPress/releases00/octpr/pr00275.htm>.

For questions about items in this newsletter, contact Luther Dudich at 202-530-2243 or email ldudich@ase.org.

The Alliance to Save Energy's Federal Energy Productivity Task Force Newsletter

April 2001

From the Hill

Proposed FY2002 Budget Cuts FEMP Program In Half

The Administration's proposed budget for the Federal Energy Management Program would cut total funding by \$12.3 million, or 48.2 percent, compared to FY 2001. The Alliance is working with our Associates to restore funding by educating members of Congress of FEMP's cost-saving benefits. Details of the budget may be found at http://www.eren.doe.gov/budget/pdfs/ec_budget.pdf starting on page 275. (This is a very large PDF file.)

Bingaman and Murkowski Introduce FEMP Legislation

Several recent pieces of legislation were introduced that would impact the FEMP program:

S.597 – Alliance Co-Chair Senator Jeff Bingaman's Comprehensive and Balanced Energy Policy Act of 2001 would establish a trust fund within the U.S. Treasury to fund federal energy efficiency and water conservation projects.

S.352 – The Energy Emergency Response Act by Senator Bingaman would allow the use energy savings to pay for new buildings; eliminate the sunset requirement for energy savings performance contracting; and require energy reviews of federal facilities.

S.388 – Senator Murkowski's National Energy Security Act of 2001 would allow use of energy savings to pay for new construction, extend the sunset for energy saving performance contracting until the end of FY2008, establish new energy saving reduction goals, require DOE to set new criteria for exemption from energy saving goals, add water savings to ESPC contracts, and extend the maximum payback period of utility energy saving contracts to 25 years.

S.597 can be found at: <http://thomas.loc.gov/cgi-bin/query/z?c107:S.597>:

S. 352 can be found at: <http://thomas.loc.gov/cgi-bin/query/z?c107:S.352>:

S.388 can be found at: <http://thomas.loc.gov/cgi-bin/query/z?c107:S.388>:

Meetings, Workshops and Conferences

FEMP Public-Private Advisory Committee Holds Third Meeting in D.C.

The Federal Energy Management Advisory Committee (FEMAC) re-convened on March 17th-18th in Washington, DC to provide input and guidance to FEMP program management. FEMAC was created by E.O. 13123 to advise the Secretary of Energy on the Federal Energy Management Program. Limitations of the proposed budget cuts were discussed as well as planning for public input to the group at Energy 2001 in Kansas City. Summary minutes of the meeting will be available from FEMP.

Alliance FEP task force chairman, Jared Blum, who is a member of FEMAC, indicated the meeting was successful and that FEMP's program would be severely hampered if the budget cuts remain intact.

Alliance, DOE and Washington Gas Present Highly Successful Steam Workshop in DC.

On April 19th, The Alliance, in conjunction with FEMP, DOE's Office of Industrial Technologies, and Washington Gas Energy Services, hosted a federal energy managers workshop in Washington, DC. Over 100 federal facility managers and others attended this one-day workshop to learn more about steam system efficiency, energy pricing strategies, and project implementation. This one-of-a-kind workshop was so well received that similar training in another federal region is under consideration.

Interagency Energy Management Task Force Meeting

The FEMP Interagency Energy Management Task Force is meeting May 16th in Washington, DC. The Federal Interagency Energy Management Task Force was established in accordance with the Federal Energy Management Improvement Act of 1988 to stimulate increased energy efficiency in the Federal sector. The Task Force serves as technical advisor to the Federal Interagency Energy Policy Committee ("656" Committee). For information on the meeting agenda, contact Rick Klimkos at 202-586-8287 or rick.klimkos@ee.doe.gov.

Federal Energy Manager Metering Workshop

The Federal Energy Management Program, U.S. DOE's Atlanta Support Office, and the Alliance to Save Energy will cosponsor a free metering workshop for Federal energy managers on Oct. 23rd at the World Energy Engineering Congress. This one-day course will offer practical examples and cost-effective technologies for metering energy use as well as guidance on how to verify energy savings. Presenters include the U.S. Department of Energy, federal energy managers, and leading energy metering experts. For more information, email Malcolm Verdict, Alliance to Save Energy at mverdict@ase.org.

FEMP Training Opportunities

For all public and federal training opportunities, FEMP has a Training Event Locator System ('LOCATOR') database system on the web at <http://www.eren.doe.gov/femp/resources/training/locator.html>. For other FEMP events, check their calendar at <http://www.eren.doe.gov/femp/>.

Other Items of Note

Federal Energy and Water Management Awards Nominations Due

All nominations for the 2001 Federal Energy and Water Management Awards are due into to Nellie Greer at nellie.tibbs-greer@ee.doe.gov (202-586-7875) at DOE Headquarters by May 18th. Nominations are being accepted for individuals, small groups and organizations who have made significant contributions to the efficient use of energy and water resources in the Federal Government. Information is available on the FEMP Web site for anyone wanting to submit a nomination.

High Performance Zion Visitor Center

The Zion National Park Visitor Center is one of the U.S. National Park Service's most energy efficient complexes. This Web site explores the center through a QuickTime Virtual Reality tour that provides 360-degree panoramas of each energy-saving measure along with the scenic beauty of Zion.
<http://www.eren.doe.gov/buildings/highperformance/zion>

For questions about items in this newsletter, contact Luther Dudich at 202-530-2243 or email ldudich@ase.org.

The Alliance to Save Energy's Federal Energy Productivity Task Force Newsletter May/June 2002

Changes at the Alliance

Malcolm Verdict, who has managed the Alliance's Federal Energy Productivity Programs for the past three years, has left to take a position at Texas A&M University. Malcolm did a fine job at the Alliance working on federal energy management and we thank him for his efforts and wish him well in his new post. Mark Hopkins, Alliance Vice President, has taken over the management of the Federal Energy Productivity program in the interim until a replacement is found.

Please feel free to call Mark at 202-530-2209 to discuss any topics of interest.

From the Hill

FEMP Legislation

National energy legislation currently making its through Congress could have a profound affect on FEMP. H.R.4, the Securing America's Future Energy Act of 2001, passed the House last May. Some of the highlights include:

- 1) Raising energy goals by 5% in 2010 to match E.O. 13123.
- 2) Requiring all federal buildings be metered and submetered by Oct. 1, 2004 in accordance with guidelines developed by the Secretary of Energy.
- 3) Only allowing exemptions for buildings to come from the President for national security reasons.
- 4) Mandating purchase of Energy STAR equipment except where not practical or cost effective.
- 5) Requiring the use of metered interval data by all federal agencies.
- 6) Demanding agency inspector generals to conduct performance audits of agency energy management plans.
- 7) Expanding use of ESPC's to fund water and wastewater efficiency improvements and "replacement" buildings.
- 8) Requiring agencies to purchase efficient central air conditioners and heat pumps.

S. 517, the Energy Policy Act of 2002, just passed in the U.S. Senate. In addition to many of the provisions in the House bill, this bill includes:

- 1) Authorization for a Federal Energy Bank.
- 2) Changes to the baseline for energy savings from 1985 to 2000 and the setting of a 2% annual reduction goal through 2011.
- 3) Requirements that new buildings be designed to exceed ASRAE 90 and IEEC for residential buildings standards by 10%. Direction that the Sec. of Energy revise within 1 year energy performance standards to 10% greater than ASHRAE 90 for commercial buildings and 10% greater than the Uniform Residential Code for residential buildings.
- 4) Direction that the Architect of the Capitol to develop and implement an energy and water conservation strategy for Congressional buildings, including a requirement that state-of-the-art energy efficiency technologies be used in the Capitol Visitors Center.

The Alliance will keep you informed about legislative developments in the coming weeks. For further information, contact Kara Saul Rinaldi (krinaldi@ase.org) at the Alliance.

H.R. 4 can be found at: http://frwebgate.access.gpo.gov/cgi-bin/getdoc.cgi?dbname=107_cong_bills&docid=f:h4pcs.txt.pdf

S. 517 can be found at: http://energy.senate.gov/legislation&docs/pdf/107-2/energy_bill/s.am.2917_mod.pdf

Meetings, Workshops and Conferences

FEMAC Meeting

The Department of Energy's Federal Energy Management Advisory Committee, a 10 person board made up of people from private industry and other sectors, met on February 12th and 13th, 2002. Beth Shearer, FEMP Director, talked in depth with the Committee members about goals for FEMP in the coming year, and how private industry can help. The Committee stressed the need for agency managers to take greater advantage of private sector support through energy saving performance contracting and utility area wide agreements.

Peer to Peer Meeting in Seattle

The Alliance, in conjunction with the Department of Defense, Department of Energy, and General Services Administration, hosted a very successful 2nd Peer to Peer meeting for Federal Energy Managers in Seattle on January 28-30, 2002. This event, attended by over 60 federal energy managers and guests from industry, allowed energy managers to have open and honest discussion about problems and solutions they have encountered in implementing efficiency improvements in their facilities.

Upcoming events

Distributed Energy Resources at Federal Facilities Workshops

The U.S. Federal Energy Management Program (FEMP) is presenting the 1st of four regional workshops on distributed energy resources (DER) in Atlanta, Georgia May 23-24, 2002 at the Atlanta Marriott Marquis Hotel. The four workshops will be co-sponsored by DOE regional offices as well as businesses that support distributed energy technologies throughout the country. The primary focus of the workshop series will be to link up federal facility managers interested in installing DER projects with project developers, equipment manufacturers, and system designers. Federal energy managers will be joined at the workshops by manufacturers and distributors of DER equipment and systems, as well as by energy services companies, utilities, energy laboratories and research organizations, financing organizations, and others interested in DER project development and implementation. For additional information, including agendas and hotel specifics, please visit the Distributed Energy Resources page (http://www.eren.doe.gov/femp/techassist/der_resources.html) or call 410-953-6277.

Energy 2002

You're invited to join your colleagues from around the country at the fifth annual national energy management workshop and exposition, to be held in Palm Springs, California June 2-5, 2002. If you're a Federal, state, local or private sector energy manager, procurement official, engineer, representative of an energy service company or utility, or otherwise involved in energy management, you can't afford to miss this program. The workshop is sponsored by the U.S. Department of Energy's Federal Energy Management Program, and co-sponsored by the U.S. Department of Defense and the U.S. General Services Administration. If you have any questions or need more information, call JoAnn Stirling toll-free at 800-395-8574 or Register Online at <http://www.energy2002.ee.doe.gov/Registration.htm>

For questions about items in this newsletter, contact Luther Dudich at 202-530-2243 or email ldudich@ase.org.

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The federal government is the nation's largest single energy consumer- and waster. Consider this:

- Federal agencies annually spend \$3.5 billion to heat, cool and power their buildings.
- The Office of Technology Assessment estimates federal agencies could **save \$1 billion annually** if they installed currently available, cost-effective energy-efficiency technologies.

Recent FEMP news:
02/04: Federal Budget for FEMP

For over half a decade, the Alliance to Save Energy's Federal Energy Productivity Program has worked with government and the private sector to encourage adoption of improved energy management practices and increased investments in energy-saving equipment by federal agencies.

The Federal Energy Productivity Task Force

Since 1995, the Federal Energy Productivity Task Force, comprised of 34 companies and organizations that market energy-saving products and services, has monitored the performance of federal-energy saving efforts. The Task Force, chaired by Jared Blum of Polyisocyanurate Insulation Manufacturers Association, works to encourage federal agencies to implement fully energy saving goals spelled out in executive orders and legislation.

The Task Force meets as necessary to:

- review the status of federal energy management.
- recommend ways that federal energy management can be improved.
- plan joint strategies for industry action to encourage and assist federal investments in energy-efficiency improvements.
- provide guidance and input into the Alliance's activities related to federal energy management.

In November 1998, the Alliance published the landmark report, **Leading By Example: Improving Energy Productivity In Federal Government Facilities**, which discussed many of the current issues and problems related to federal energy management and outlined a series of recommendations from the FEP Task Force for improving federal energy management.

The report was funded by the U.S. Department of Energy's (DOE) Federal

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Energy Management Program (FEMP), the Honeywell Foundation, and corporate supporters of the Alliance.

Leading By Example was a follow-up to the Alliance's initial 1991 study ***Federal Energy Management: Squandering Taxpayers Money and Needlessly Polluting the Environment***.

As a direct result of *Leading By Example*, President Clinton issued ***Executive Order (E.O.) 13123***. This E.O. set stringent goals for the federal government agencies to cut energy use and - for the first time - greenhouse gas emissions. Nearly a year after E.O. 13123 was released, the White House produced ***The Greening of the White House*** on Earth Day 2000. This contains an update of efficiency measures taken within the White House complex, as well as a brief overview of the progress of the federal agencies towards the goals of E.O. 13123.

Since President George W. Bush's Administration took over, Federal energy issues have continued to be prominent. In response to the threat of power shortages in California and other regions of the country in the summer of 2001, President Bush issued a ***Presidential Directive on Energy Conservation at Federal Facilities***. This was followed by ***Executive Order (E.O.) 13221***, which set a one-watt standard for the stand-by mode for power-using devices in federal facilities.

In light of the attacks of September 11th, Energy security at federal facilities has become a very prominent issue. The Alliance and its Associates continue to work to insure that the Administration continues to take positive steps towards reducing federal energy use.

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This page was updated March 28, 2002

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Attachment 10:

Alliance FEP Website

Attachment 11:

Financial Status Report

(not scanned)