

**Energy Services Coalition
Colorado Chapter
Regular Meeting 01/23/2007**

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| Meeting Minutes |
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Meeting Location: EMC Engineers , 143 Union Blvd., Ste 350 , Lakewood, CO 80228

Next Meeting

April 17, 2007 at NREL Visitor Center, Golden, Colorado

In Attendance:

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| Linda Smith, Governor’s Office of Energy Management, ESC Co-chair | Sandie Busby, EMC Engineers |
| Gary Bergard, Honeywell, ESC Co-chair | John McAllister, EMC Engineers |
| Chris Youngs, CitiCapital, ESC Treasurer | Michael Micci, EMC Engineers |
| Jim Kobbe, Johnson Controls, ESC Secretary | Jeff Shuster, Ennovate |
| | Chad Alveras, Ennovate Corp. |
| John Canfield, Trident / OEMC | Carl Hurst, Johnson Controls |
| Angela Crooks, OEMC | Doug Hargrave, Long Energy Solutions |
| Gwendolyn Ruffin, OEM C | Leslie Larocque, McKinstry |
| Rob Vanderwall, Office of State Architect | Chris Larocque, McKinstry |
| Doug Dahle, NREL | Henry Fowler, Navarro Research & Engineering |
| Otto Van Geet, NREL | Steve Boyd, Noresco |
| Karen Keeler, All American Investment Group | Bob Radomski, Noresco |
| Paul Ira, Ameresco | Marty Skolnick, Siemens Building Tech. |
| Matt Rush, Chevron Energy Solutions | Bob Chmel, Siemens |

***** Beginning of General Discussion *****

Doug Dahle discussed activities at NREL:

DSM & Renewables

Federal ESPC program: \$12-million, 20 projects, 5 ESCOs, Allows transfer of assets to private entities for tax advantages.

Shows up as reduction in financing costs since it is not available til project is up and running.

Solarwall – Solar tax credit – privately owned, Sunedison, Powerlight, CitiCapital, etc.

Entegry Wind Systems makes small on-site turbines for distributed power systems

Angela Crooks:

Small on-site systems more economical than grid-connected systems due to net-metering laws in Colorado.

OEMS has anemometers for testing wind resources, but there is a one-year wait time for 20-meter anemometer, and a longer period for 50-meter units.

Otto Van Geet:
Soutwest Windpower makes small 2 KW Skystream units.

Linda Smith:
Sepp funds to \$500k 4 school districts in Adams, Denver Counties: Mapleton, Adams 12, Adams 14, Denver
CDPHE gives funds to reduce emissions in affected areas.
Want to use funds to buy down renewables
NREL giving design assistance
More to be announced soon.

John Canfield:
1 district in year 4 of 12-year PC
\CDE grant is funding solar pool heater in school district “north of here.”

Crooks:
What is simple payback guideline for feasibility of PC project?

Dahle:
25-year term limit in Colorado.
10-year simple payback seems to fit most situations.

Van Geet:
Amendment 37
Xcel - < 10 KW \$2.50 / KW REC payment + \$2,00 / KW = \$4.50 / KW
10 ~ 50 KW => Set payment for RECs
100 KW ~ 2 MW => bid period, 20-year REC payments

Dahle:
Customers are driving demand for renewables. Recent projects include a 5 MW wind farm and a 3 or 4 MW PV system. Naval Station in California did a \$7-million PV carport.

Van Geet:
Wind and PV work well in the right conditions. See the NREL site for PV Watts tool for prequalification.

Crooks:
Renewables not counted for RPS. Biomass not counted for Amendment 37 credits

Van Geet:
New construction PV roofing membranes. Roof can be leased. A San Diego school district has 1 MW of solar integrated roofs.

Rod Vanderwall:

State Buildings is promoting PC, LEED NC, LEED EB. Interested to see new governor's direction. Department's new building next to Capitol is to be LEED Silver. So far only funded for design.

Smith:

Let OEMS know how they can help with Renewable projects.

Canfield:

Call us – we'll help.

Dahle:

NREL cannot compete with private entities, but will assist on projects if requested, especially by public entities.

Van Geet;

Tap NREL and local and state grant programs for technical assistance – not equipment.

***** Conclusion of General Discussion *****

***** Beginning of Regular Meeting *****

OLD BUSINESS

1. Minutes of last meeting were reviewed.
2. Linda Smith discussed ongoing development of PC Workshops:
 - a. OEMC would identify venues and provide advertising.
 - b. Mike McCoy expressed interest in partnering on workshops
 - c. Workshops contemplated for various markets:
 - i. School District personnel
 - ii. State Government
 - iii. Higher Education
 - d. Multiple purposes of workshops:
 - i. Promoting Renewables, LEED EB, Seasonal Topics
 - ii. Stepping up marketing
 - iii. Networking benefits
 - iv. Webinars to implement workshops while reducing venue planning, scheduling, cost, etc.
3. Linda Smith reported no progress on statewide pre-selection of ESCOs.
4. Linda Smith reported changes in the State Government affecting ESCOs:
 - a. Bill Ritter, Governor, is promoting renewable energy in Colorado
 - b. Ritter names Tom Plant to Director of OEMC. Tom was with CRC in Boulder and was head of the Joint Budget Committee as State Legislator.
 - c. Ed Lewis is head of the Ethanol Coalition at OEMC.
 - d. Linda suggested that ESCOs go to legislators with ideas on how to implement renewables, efficiency projects, etc. Political climate is right for new ideas.
 - e. Some interesting bills in legislature web site: eg. SB 51, LEED NC Gold for new State Buildings.

5. Rod Vanderwall reported status of State Buildings Department
 - a. Looking for direction from new Governor on LEED certifications for new and renovated buildings.
 - b. Department will be selecting contractors from Vendors List for design contracts < \$50,000 and construction contracts < \$500,000. Applications are Due March 5th.
6. Matt Rush reported the status of the Presentation Committee activities:
 - a. Committee has met three times
 - b. They have discussed a “presentation tool”
 - c. Goal is to educate all Vertical Markets.
 - d. They have found that existing resources revolve around Technical Topics, M&V, and Financing.
 - e. Goal is to develop tool for promoting PC and Energy Services.
 - f. Looking for “sage advice.”
 - g. Want to develop questionnaire for existing ESCO customers about successes, surprises, and lessons learned.
 - h. Looking for best practices and new ideas.
 - i. Sandie Busbie has already taken first questionnaire to a rural school district.
 - j. Gary Berggard clarified the purpose of the committee is to develop workshop materials (separate from OEMC workshops), Need to pick a date for first workshop.
7. Gary Berggard reported status of Xcel DSM Committee activities:
 - a. Trying to get Prescriptive DSM program for Energy Management Systems.
 - b. Xcel's program is \$200 / KW, while other utilities' programs are \$500 / KW.
 - c. \$120-million over 10 years for the program. This is up (when?) for re-hearing.
 - d. PUC will attend next roundtable. ESC should express frustration over program not addressing broad cross-section of customers' needs
 - e. We should have Bill Gruen speak at next ESC meeting.
 - f. Karen Rhodes is Xcel DSM Program Manager. Gary is to ask Bill Gruen about Karen participating in next ESC meeting.

NEW BUSINESS

1. Need to increase dues payments. Members receive reminder emails, but many members do not know if they are current. Chris Youngs can tell anyone their status. Members discussed whether we should be more vigilant. Should we stop emails to non-current members?

***** End of Regular Meeting *****