

From: Miller, William (EE) (CONTR)  
Sent: 7/13/2011 10:46:34 AM  
To: ska@cpuc.ca.gov (ska@cpuc.ca.gov); cbe@cpuc.ca.gov (cbe@cpuc.ca.gov); 'Best, Carmen' (carmen.best@cpuc.ca.gov); matthew.deal@cpuc.ca.gov (matthew.deal@cpuc.ca.gov)  
Cc: jeorge.tagnipes@cpuc.ca.gov (jeorge.tagnipes@cpuc.ca.gov); pamathew@lbl.gov (pamathew@lbl.gov); Hernandez, George (CONTR) (George.Hernandez@EE.Doe.Gov)  
Bcc:  
Subject: RE: U.S. Department of Energy Projects on Measuring Energy Efficiency Savings

Carmen,

Excellent. Of the three of us, George Hernandez and Paul Mathew will be the ones to meet with you. As I mentioned, the meeting will work in the early or mid-morning as George has a 1:30 pm flight out of SFO to New York and will need to leave the CPUC about 11 am. Let us know what time to meet at the CPUC.

This project isn't directly focused on savings measurement at present. But it does rely on input data very similar to that used in impact evaluations and we are in discussion with utilities around the country including California to access part of their energy efficiency savings impact study data. It should be an interesting discussion.

I hope Matt Deal and Pete Skala can also join the meeting. This particular project is part of a larger reconsideration of how to measure and value energy efficiency that DOE is undertaking. For example, the need for a national EM&V approach has been discussed as a topic in Deputy Assistant Secretary Hogan's EM&V workgroup in the State Energy Efficiency Action Network. That group, or DOE in parallel to it, may undertake some activities in that direction in the next few months. We'd look forward to sharing those projects as they take shape.

Sincerely,

Bill Miller

William C. Miller, Ph.D.  
Senior Advisor  
SENTECH, Inc.  
Under contract to the Department of Energy  
phone: 202 287 1744  
mobile: 510 861 7418

**From:** Best, Carmen [mailto:carmen.best@cpuc.ca.gov]  
**Sent:** Tuesday, July 12, 2011 12:12 PM  
**To:** Miller, William (EE) (CONTR); matthew.deal@cpuc.ca.gov; ska@cpuc.ca.gov; cbe@cpuc.ca.gov  
**Cc:** Hernandez, George (CONTR); pamathew@lbl.gov; Miller, William (EE) (CONTR); jeorge.tagnipes@cpuc.ca.gov

**Subject:** Re: U.S. Department of Energy Projects on Measuring Energy Efficiency Savings

Dear William,

I would be interested in meeting with you to better understand this project. I am currently en route back to CA. I can confirm a Tuesday meeting when I get back tomorrow.

In the mean time I would encourage you to look at the publicly available data sets on the CPUC website. These are specific to 2006,2007,2008 and 2009 reported (by the utilities) and evaluated results at the measure/technology level.

The data is in appendices g-n, and the supporting documentation.

<http://www.cpuc.ca.gov/PUC/energy/Energy+Efficiency/EM+and+V/2006-2008+Energy+Efficiency+Evaluation+Report.htm>

I look forward to discussing this more. George Tagnipes is our staff expert on this data set as well as several others we can discuss.

Best wishes,  
Carmen

Carmen Best

DSM Evaluation  
California Public Utilities Commission  
ph. 415.703.1797  
carmen.best@cpuc.ca.gov

----- Reply message -----

From: "Miller, William (EE) (CONTR)" <WilliamC.Miller@EE.Doe.Gov>  
Date: Mon, Jul 11, 2011 5:20 pm  
Subject: U.S. Department of Energy Projects on Measuring Energy Efficiency Savings  
To: "matthew.deal@cpuc.ca.gov" <matthew.deal@cpuc.ca.gov>, "ska@cpuc.ca.gov" <ska@cpuc.ca.gov>, "cbe@cpuc.ca.gov" <cbe@cpuc.ca.gov>  
Cc: "Hernandez, George (CONTR)" <George.Hernandez@EE.Doe.Gov>, "Paul Mathew" <pamathew@lbl.gov>, "Miller, William (EE) (CONTR)" <WilliamC.Miller@EE.Doe.Gov>

Matthew, Pete, Carmen,

I wanted to follow up on my email and phone calls. We'll be talking to CEC staff on Monday, and are very interested in meeting with you on Tuesday morning, July 18, if you have any availability.

The data warehouse described in the attachment to my previous email continues to excite

interest in the financial community as a tool that enables energy efficiency finance. As mentioned below, it can provide new insights to other energy efficiency issues: program planning, measurement, etc. It also begins to provide a common platform for describing and communicating certain types of building data.

Its usefulness depends on the data contained in it. Currently there are about 18,000 buildings (without confidential information), mostly residential, and we seek more. One source of data of the kind we're interested in is utility evaluation studies. We've talked to California utilities, who point to new processes for accessing CA IOU customer usage data. This is of particular interest to us as we're interested in working with them to access the non-confidential portions of those data sets.

I hope we have time to meet Tuesday.

Sincerely,

William C. Miller, Ph.D.  
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From: Miller, William (EE) (CONTR)  
Sent: Thursday, July 07, 2011 10:11 AM  
To: 'matthew.deal@cpuc.ca.gov'  
Cc: 'ska@cpuc.ca.gov'; 'cbe@cpuc.ca.gov'; Hernandez, George (CONTR); 'Paul Mathew'  
Subject: U.S. Department of Energy Projects on Measuring Energy Efficiency Savings

Matthew Deal  
Director, Policy and Planning Division  
California Public Utility Commission

Mr. Deal,

Work with the financial community shows that a new data/analysis model that connects their risk analysis techniques to measured energy use in buildings is likely to enable them to provide financing for energy efficiency at scale. In the last several months the U.S. Department of Energy and several National Laboratories have completed a beta version of that data/analysis system. The principal on this project, George Hernandez, and I will be in Northern California briefly mid-July and would like to describe this work and discuss its potential to support energy efficiency financing, program and system planning, and savings measurement.

Unfortunately our time in Northern California is restricted. We are meeting with the California Energy Commission on Monday, July 18 and are in San Francisco the morning of Tuesday,

July 19 before returning to the East Coast in that afternoon. Would you or some of your key staff have time to meet that morning?

The system is still under development but the attached PowerPoint gives an overview.

Please let me if there is a time that works for you the morning of Tuesday, July 19.

Sincerely,

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