

## Nixon, Elizabeth

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**From:** Gwjtstengr@aol.com  
**Sent:** Wednesday, February 06, 2013 1:28 PM  
**To:** Nixon, Elizabeth  
**Subject:** Re: Reminder: Stakeholder meeting tomorrow on proposed Puc 2500, 9:30 am

Hi Elizabeth,

The interim report for the MA Solar Hot Water's residential performance monitoring program can be found at this link:

[http://www.masscec.com/masscec/file/CSHW-0712-Residential%20Performance%20Monitoring%20Interim%20Report\\_June%202012.pdf](http://www.masscec.com/masscec/file/CSHW-0712-Residential%20Performance%20Monitoring%20Interim%20Report_June%202012.pdf)

If you have not already read the report, you may find it provides a useful reference to a solar heating study under way in Massachusetts. You may find their methods and ideas useful -- its two page executive summary provides a concise overview of the project.

However, the performance data is incomplete and the study is on-going. Perhaps it underscores the difficulty of setting and meeting standards for thermal energy systems, since this area of renewable energy does not have the accumulated history and knowledge of the electrical industry to serve as a reference.

In any case, you may find this program interesting.

Regards,

Greg Jackson  
Net Zero Meter

In a message dated 1/31/2013 11:05:39 A.M. Eastern Standard Time, [Elizabeth.Nixon@puc.nh.gov](mailto:Elizabeth.Nixon@puc.nh.gov) writes:

Greg,

We are especially looking for standards related to thermal metering and measurement, but all input is helpful. I have looked at some of Massachusetts' work but if you know of specific information that would be useful, please forward it.

Thank you for your help.

*Elizabeth R. Nixon*

*Energy Analyst*

*NH Public Utilities Commission*

*Sustainable Energy Division*

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**From:** [Gwjtstengr@aol.com](mailto:Gwjtstengr@aol.com) [<mailto:Gwjtstengr@aol.com>]

**Sent:** Thursday, January 31, 2013 10:56 AM

**To:** Nixon, Elizabeth

**Subject:** Re: Reminder: Stakeholder meeting tomorrow on proposed Puc 2500, 9:30 am

Hi Elizabeth,

Thank you for your reply. Please let me know whether you are looking for electric metering standards, standards for thermal measurement systems, or both.

I would also be interested in knowing whether the Committee has referred to standards established by the Mass CEC and/or National Grid for MA renewable's. I do not represent either organization, but it appears that both have done a lot of good work in this area.

I think the NH PUC is right to try to better define it's own rules rather than to defer to a collection of standards produced by the various utilities. The definition of "revenue quality meter" is a good example. I would suggest referencing the ANSI C12 standard for electric meters (C12.20 Class 0.5), and the IEEE C57.13 standard for current transformers.

To the extent NH is able to propose or adopt existing regional standards, it should improve the success of your program.

Thank You,

Greg W. Jackson

Net Zero Meter