

**TRM Advisory Meeting
August 26, 2014
Golden Rule Building LL35
9am-12pm**

Attendees

In-person: Jessica Burdette, Mark Garafano, Joe Plummer, Laura Silver (Commerce-DER); Leo Steidel (ESP); Matt Haley (Energy Insight); Eric Johansen, Audrey Peer (CenterPoint); Michael Hoy (Dakota Electric); Chris Plum (Center for Energy and the Environment); Tim Gallagher (Minnesota Power); Will Nissen (Fresh Energy); Jeff Haase (Great River Energy)

GoTo Meeting: Kim Lillyblad (MMPA); John O'Neil (SMMPA); Jessie Peterson, Shawn White (Xcel); Kurt Hauser (Missouri River Energy Services); Joe Rocco (AEG on behalf of MERC); Rick Berry, Dean Laube (Franklin Energy Services); Adam Zoet (Commerce-DER)

Moderator: Jessica Burdette

Presenter: Joe Plummer

Agenda

- Membership update
- Update on recent work
- TRM update planning
- New measures for 2015/2016
- Process for proposing new measures

Membership Update

- Bridget McLaughlin has left CEE and has been replaced by Mike Bull on the TRMAC
- DER will address next year's membership roster this Fall

Update on Recent Work

- See slides 4-5 for summary of TRM 1.1 and 1.2 releases
- Update on recent work: see slides 6-9
- DER to distribute lighting survey to electric utility TRMAC members
- On track according to new work plan for technical workgroups
 - No additional meetings planned at this time for hot water or heat pump systems
 - Next meetings in October for HVAC VSDs and Res/Comm Heating Measures
 - Heat Pump discussion
 - Michael Hoy – Where are they setting the HP outside temperature? More accurate method to track consumption
 - Matt Haley – Type of HP important consideration
 - Joe Plummer – Reasonable to include all of this on rebate forms?

- Jeff Haase – QI has captured some of this
- Jessica Burdette – Rules of Thumb based on HP type?
- Jeff Haase – HP settings affect consumption. Contractor awareness varies. Contractors that focus on more advanced HPs create awareness of how low the cross-over temperature can go rather than relying on rule of thumb for older systems. Savings also depend on the type of supplemental system (propane will often have lower temperature than gas due to cost difference)

TRM Update Planning

- Last Meeting Discussed shifting Triennial one year to align all IOUs in 2017-19
 - Simplify TRM update, consolidate DER workflow, add consistency to review
 - Follow up meetings with utilities and stakeholders didn't bring up any objections
 - New TRM and filing schedule on slide 10
- Release TRM 2.0 end of 2014 for PY2016
 - MN Energy code, C&S changes already identified and distributed
 - New C&I Lighting Tables
 - New Measures
- TRM3.0 for PY2017-2019
 - RFP to be released Fall 2014
 - Do this every 3 years
 - Released end of 2015
 - Prelim list of C&S and baseline changes released approx. June of 2015 for utility planning
 - Smart Measures finished 9/1/16 (preliminary target date)
 - Objectives
 - Build on existing work of Franklin Energy and technical workgroups
 - Gap analysis of MN TRM vs other TRMs
 - Update incremental costs and baselines
 - Preference to use MN data first, followed by regional and national
 - Update measure lifetimes
 - Analysis measures with respect to Uniform Methods Project (UMP)
 - Jessica Burdette – we are seeking to have Michael Li of DOE give a presentation on UMP in MN
 - TRM Timeline Slide (preliminary) – see slide 14
 - Unlike last time have technical meetings midstream starting in June 2015
 - Leo Stiedel – How to technical work groups intersect TRM review by contractor?
 - Joe Plummer – This work will inform the TRM development. Will have contractor attend meetings
 - Jessica Burdette – We will attempt to dual-purpose meetings to reduce travel time
 - Jeff Haase – Do you anticipate interaction with EPA regulations from PCA?
 - Jessica Burdette – We have had conversations with PCA, who is taking the lead on EPA regulations, to educate them on CIP. There will be coordination with PCA.

New Measures for 2015/2016

- Proposed by DER:
 - ENERGY STAR Dryers (E/G)
 - Spec 1.0 Effective 1/1/15
 - Use 20% Less than Standard
 - ENERGY STAR appliances remain a significant part of customer-owned utility (COU) portfolios
 - Received a few inquiries from COUs if a measure will be developed
 - Building Operator Certification (BOC)
 - An eligible CIP expense with deemed savings from 2011 evaluation study
 - Low level but steady requests
 - Standardize and make more visible
 - Evaluation study getting old (2011), needs to be updated though savings are small
- Audrey Peer – Combined Heating and Water Heating Systems Condo Packs
 - Have an engineer working on configuration
 - Under-claiming savings right now, taking credit for only space heating or water heating
 - Working on deemed calculation for measure
- Tim Gallagher – variable refrigerant flow (VRF) systems
 - Jessica Burdette – Conservation Applied Research and Development (CARD) grant proposed standard calculations for VRF
 - Joe Plummer – Final report imminent, showed that quality installation (QI) is important, proposed simple method for calculating electric & gas savings
 - Tim Gallagher – Impact of design is important
 - Joe Plummer – Future TRMs will explicitly specify program requirements, if any, for each measure
 - Jessica Burdette-Ties in with broader efforts to address QI in other measures
 - Tim Gallagher – Better as a carrot than a hammer
 - Jessica Burdette – Some contractors see the value in QI, capture/present to trade allies
 - Tim Gallagher – Step rebate encourages customer to chase QI, at least in beginning of program
 - Jeff Haase – QI is arguably what people should do, O&M is what people must do
 - O&M activities – have thought about how to set up a program for rooftop units (RTUs) – provide incentives to do preventative maintenance on their units, looking at how to capture correct data to feed into TRM
 - Leo Steidel – this is a different type of measure we haven't considered. Instead of a single action, it is multiple actions over time.
 - Jessica Burdette – New CARD grant performance and characterize of RTUs in Minnesota
 - CARD Grant Discussion
 - Jessica Burdette – Advisory Group around CARD to meet in January

Measure Lifecycle (New Measure Process)

- Joe Plummer: I am proposing a simplified process for adding new measures to the TRM versus the workflow presented in last TRMAC meeting (see slide 18)
 - Consists of four steps:
 - Completeness Review by DER
 - Interest Assessment by TRMAC
 - Technical review by TRM contractor, ad hoc technical workgroups, and DER
 - Final decision by DER for adoption and measure classification
 - Measure classifications based on Northwest Conservation Council Regional Technical Forum classifications (see slide 24):
 - Proven
 - Provisional
 - Small Saver
 - Dean Laube – What is timeline for turnaround? TRMAC meeting or review between meetings?
 - Joe Plummer-Depends on measure and information supplied/complexity; measure info distributed through email for review unless several items are queued up; placed in annual update if approved (consider earlier release).
 - Jessica Burdette – This is a starting place to figure out process, will learn as we go
 - Jeff Haase – Heat Pump Water Heater – Provisional Example?
 - Joe Plummer – yes, this could be a good example of a provisional measure because of lack of information on interactive effects
 - Could be approved with specific M&V requirements for sub-metering to measure interactive effects
 - Jeff – it would be difficult in a residential program to install sub-metering
 - Joe – Any programs would essentially be small R&D/pilot projects until sufficient information gathered to move the measure to Proven status
 - Chris Plum – the DOE often earmarks relatively small budgets for research on specific topics of limited scope. Has DER considered this for the TRM?
 - Jessica Burdette – CARD dollars could potentially be earmarked for this process
 - Michael Hoy – I am chair of the Advisory Board for the Cooperative Research Network. Would like to collaborate with CARD to avoid duplication and leverage combined resources
 - Jessica Burdette – want to focus on Minnesota 1st in CARD; build on existing research
 - Considerations
 - Need to define data quality standards for measure classifications
 - Northwest has specific accuracy and confidence levels
 - How recent are sources? Are sources regional?
 - RTF requires evidence of interest from at least one utility to propose a new measure. Should we require that?
 - Tim Gallagher: the TRMAC will take care of reviewing projects instead.

Next Steps

- Pilot new measure process with ENERGY STAR Dryers, BOC (DER to take the lead)
 - Joe Plummer – Templates for new measure proposals to be presented at next meeting