

**TRM Advisory Meeting  
June 10, 2014  
Golden Rule Building LL35  
1-4 pm**

### **Attendees**

In-person: Jessica Burdette, Mark Garafano, Mary Sue Lobenstein, Joe Plummer, Laura Silver (Commerce); Travis Hinck (GDS Associates); Jill Eide, Michael Hoy (Dakota Electric); Audrey Peer, Eric Johansen (CenterPoint Energy); Jim Phillippo (MERC); Kurt Hauser (Missouri River Energy Services); Bridget McLaughlin (Center for Energy and Environment); Lori Boritz, Leo Steidel (Energy Platforms)

Remote: John O'Neil (SMMPA); Kim Lillyblad (MMPA); Tim Gallagher (Minnesota Power); Joseph Steffel (Buffalo Public Utilities); Dean Laube (Franklin Energy); Richard Godfrey (WECC); Ryan Kroll (Michaels Energy); Kelsey Genung (Xcel Energy); Joe Rocco (Applied Energy Group); Jeff Haase (Great River Energy); Jason Grenier (Otter Tail Power); Jeremy Fischer (Great Plains Natural Gas)

### **Agenda**

- Recap of Last Meeting
- Summary of Work to Date
- TRM Regular Update Schedule
- Code and Standards Impacts
- Updated Measure Technical Work Plan
- Measure Approval and Lifecycle

### **Recap of Last Meeting**

- Discussion of Mission Statement
  - Advisory Committee
  - Forum to provide feedback and recommendations re: TRM
  - Forum to share information
- TRMAC to provide input on policies, protocols and guidelines
- Vision for TRM
  - Full Prescriptive to Full Custom
- Overarching purpose of TRM
  - Define standards for EM&V
  - Leverage 3<sup>rd</sup> party engineering firms
  - Guidebook and menu of savings opportunities
- TRMAC Membership
- Moderator – Jessica Burdette
- Logistics
  - Meet quarterly (2-3 hours)
  - Commerce to set agenda, records minutes, post materials on website

- Form technical working groups around specific topics (open to all)

## Summary of Work to Date

- Smart Measure Library
  - Input collected on priority measures
  - Smart Measure team developed and tested measures Dec-April
  - Library released May 8
  - Additional Smart Measure development prioritized according to requests from ESP users
  - List of Measures to Date (see presentation)
    - Stairwell Fixtures with integral occupancy sensors (New)
    - LED Lamps (New)
    - Need to finalize Residential Load Management
  - Question – Which Utilities might be using ESP right now?
    - Some aggregators looking at coming online this year
    - Some municipal and co-ops as well
- TRM v1.1 (2014)
  - Documentation corrections
  - Savings impacts
    - Baseline increase for residential lighting
      - Consistency with Xcel Order
    - Higher CF for grocery store lighting
      - Discussion in Lighting Work Group
    - Algorithm change for Commercial Water Heaters
      - Following Centerpoint method
  - New Measures
    - Residential LEDs
    - C/I Stairwell Fixtures
    - Programmable Thermostats
- Lighting Workgroup
  - Collected input on Residential LED design
  - Reviewed C/I coincidence factors
    - Grocery store = 0.9
  - Collected input on design changes for residential lighting

## TRM Update Schedule

- Need to establish regular, predictable schedule for TRM updates
- Seek feedback on following two options
  - TRM Schedule 1 (see presentation for graphic)
    - IOUs on same triennial plan
    - TRM updates due end of each calendar year, go into effect June 1 of following year
    - TRM update in 2014 and every three years
      - TRM 2.0 in 2014

- TRM 3.0 in 2017
- Incremental release in other years
  - TRM 2.1 in 2015
  - TRM 2.2 in 2016
- MP/OTP use TRM X.1, other IOUs use TRM X.0
- Feedback
  - Is 6 months enough time?
  - Kelsey Genung – Would it be required to be used or choose to use?
    - Can develop your own measures
    - TRM will be pre-approved set of measures, others would be approved with plan
  - Audrey Peer – Would be pretty far along on triennial plan by the time 2.0 comes out. Do start planning a year in advance.
  - Jim Phillippo – Would need nine months for planning, could it be released early?
  - Kurt Hauser – This schedule works for us.
  - Leo Steidel – Is there a plan to release a draft TRM? Would give some heads up as well as measures that may change.
    - Joe Plummer – work with consultant to record changes beforehand, tailor review for highest impact first
  - Bridget McLaughlin – target one or two affected program types at a time instead of a larger number
  - Audrey Peer – If informed early about measures that could change and how, can pinpoint certain program that could possibly change.
  - Jessica Burdette – These committee meetings will help keep informed of what is coming. Limiting to certain technologies would risk with changes in the technologies in other areas. Not sure how prioritization would work.
  - Joe Plummer – Can attempt to move TRM release date earlier in future years
  - Michael Hoy – Is it possible to highlight the changes each year?
- TRM Schedule 2
  - Align all IOUs in 2017
  - Have 2013-2015 IOUs file a 1 year extension for 2016
  - TRM updates in 2014, 2015, 2018
    - TRM 2.0 in 2014
    - TRM 3.0 in 2015
    - TRM 4.0 in 2018
  - Incremental release in other years
    - TRM 3.1 in 2016
    - TRM 3.2 in 2017

- No changes in schedule for muni/co-ops, Minnesota Power, Otter Tail Power
- Feedback
  - Ability to have more department's time available to address TRM and policy development in off years
  - Audrey Peer – Would we file a plan for 2016? Just continue 2015?
    - Joe Plummer – Utilities filed one year extensions of their plans previously
  - Audrey Peer – There might be some implications to some of their contracts. Planning out the RFP process and modifications would cause some adjustments
  - Jim Phillippo – Can make a pretty quick decision on this schedule, but want to discuss in house.
  - Audrey Peer – Schedule a meeting to discuss this adjustment
  - Joe Plummer – Gives an advantage for a full year to update TRM
  - Tim Gallagher – Will you put out a formal question in writing
    - Jessica Burdette – Yes, if we want to get serious, we will do formal request
  - Jason Grenier – Nothing will be delayed for OTP or MP?
    - Joe Plummer – No, this will streamline planning review process
    - Jessica Burdette – Staff wise, we are in a better position to handle the filings in one year
  - Tim Gallagher – Push us more towards the TRM?
    - Jessica Burdette – First preference is that the TRM is used. We will continue to push for utilities to use TRM as much as possible. We recognize MP has a more custom way of doing things and there is a decision MP has to make about incorporating TRM into work.
  - Kelsey Genung – Would appreciate to stagger with other states (Colorado being the other large state). Will check on Colorado's filing year.
- Summary
  - Comprehensive updates every three years
    - Schedule 1: 2014, 2017, 2020
    - Schedule 2: 2015, 2018, 2021
    - Will include known Codes and Standards changes
    - Will incorporate market transformation effects
    - Reasonable grace period for market lag
  - Annual updates to add/drop measures, incorporate C&S changes
  - Additional updates as needed for C&S changes
  - C&S changes
    - TRM will describe expected C&S changes in next three years

- For unaccounted C&S changes, compliance filing describing impact
  - Feedback
    - None

## Codes and Standards Impacts

- Residential Energy Code adopted in May 2014
  - Old 2006 IRC with amendments
  - New 2012 IECC with amendments
  - Take effect in November 2014
- Commercial code public comment opened May 2014
  - Old ASHRAE 90.1-20014
  - New ASHRAE 90.1-2010, 2012 IECC
  - Adoption as soon as October 2014, into effect April 2015
- Jessica Burdette: Would it be helpful to bring in a DL&I person to discuss code and standards?
  - Group: Yes
- Preliminary List of Code Impacts (see presentation)
- Feedback
  - Michael Hoy – Energy Star added standards for heat pump clothes dryers
- TRM v1.2 released by August 1, 2014 for PY2015
  - New residential energy code (in effect Nov 2014)
  - New Energy Star standards
  - New federal min efficiencies
- TRM v1.3 released by May 2015 for remainder of PY 2015
  - New commercial energy code (in effect May 2015)
- Feedback
  - Kurt Hauser - August 1, 2014 release is too late for planning
  - Jeff Haase - Generally begin budgeting efforts after that, but a lot of co-ops are mixed about that. Kurt asked if that would provide time for savings changes and incentives changes. Replied it would be tough
  - Michael Hoy – Given a heads up sooner rather than later.
  - Joe Plummer – Should we put a list of codes and standards changes first?
    - Jeff Haase – Yes that would be great.
    - Jessica Burdette – When is the last day we can get? August 1<sup>st</sup>
    - Joe Plummer – MN energy code updates occur only every 6 years. This shouldn't happen very often.
    - Jessica Burdette – Provide a list of commercial codes and standards changes will be provided

## Updated Measure Technical Work Plan

- Original Technical Work Plan (see presentation)
  - Lighting group has met and completed discussion of issues identified in review of draft measures, is now discussing changes to res lighting designs for next year

- Updated Technical Work Plan
  - Heat pump systems (res & commercial), res cooling, res and commercial hot water conservation measures to kick off in July 2014
  - Mark Garofano will be able to help move work along by leading some of the technical workgroups
  - Need to complete bulk of work through middle of next year in time for next major TRM update (v2.0 if TRM Schedule 2 is adopted)
- Feedback
  - Jessica Burdette – How do we prioritize this? What are the pressing measures and what do we need to address. Some things might not be done when we want them to be done.
  - Audrey Peer – Next iteration is v1.2 with code and standards tweaks, next big overhaul will v2.0. Technical Work Group would be completed for v2.0
    - Joe Plummer: correct
  - Michael Hoy – Would the Department be comfortable if we are allowed to use old measures but document which versions we are using? Use existing version if TRM updated is not completed by August 1. For the FY15 plan only
    - Jessica Burdette – We will discuss internally and get back to the group. Initial thought – does this allowance offset the given set of numbers with given standards.

## Measure Approval and Lifecycle

- Measure Lifecycle
  - TRM is a set of standards
  - Reasons for proposing non-TRM standard offer measure
    - Program design doesn't fit
    - Use of information unique to service area
    - More accurate savings calculation
    - Measure not in TRM
  - Commerce to define process and documentation requirements for each reason with TRMAC input
  - Possible measure status/lifecycle
    - Draft
    - Pilot Approval
    - Full Approval
    - TRM adoption
    - Retirement
  - Lifecycle Chart (see presentation)
  - Feedback
    - Audrey Peer– What does draft status mean?
      - Joe Plummer – You are doing it as a custom project and Department has not seen it yet. In some cases could jump from Draft to Full Approval rather than going through Pilot Approval.
    - Jim Phillippo – What do you think the general timeline will be?

- Joe Plummer – A lot of measure documentation would be submitted with the triennial plan, but can be submitted at any time.
- Joe Plummer – Formalizing things we are already doing, a way of documenting savings everyone is using are justified.
- Bridget McLaughlin – Is it too early to tell how many non-TRM measures are developed annually?
  - Joe Plummer – It is kind of sporadic and varies by utility. In CIP plans, there are quite a few non-TRM measures being used.
- Jessica Burdette – Building the TRM. How much do you use the TRM to inform any programs or incentives?
  - Jeff Haase – We are using it for almost all of our activities. Use it to inform and benchmark the value proposition for the end use members.
  - John O’Neill – Using it pretty extensively for program development.
  - Jessica Burdette – It helps you incorporate new measures/programs to get more savings.
    - Kurt Hauser – Not so much the case for us. Hiring Franklin to develop measures for us.
- Joe Plummer – We will have to think about ESP about how to incorporate measure lifecycle for Smart Measures.

## Final Thoughts

- Next meeting tentatively at the end of summer
- Our takeaway priorities
  - IOUs discuss possible scheduling changes; meet in a few weeks
  - Updating TRM, putting out v1.2 for 2015 is tight; try to get complete code and standards changes list out as soon as possible
  - Another meeting to discuss TRM update schedule
  - General support for lifecycle concept but need to provide more details
- Jessica Burdette – Is there anything we didn’t talk about today that you would like to talk about?
  - Jeff Haase – Curious about some of the things related to Code and Standards, the C&S provide diminishing returns to utilities. Are C&S going to drive retirement of measures? Appliances – high level of market saturation of Energy Star dishwashers. Is there any way to include the saturation in the TRM?
    - Jessica Burdette – C&S are primary driver to retire some measures. Market transformation is another drive. Want input on how we account for this.
  - Audrey Peer – It would be interesting for future goals and where they should be, to keep the retired measures in an archive.
    - Jessica Burdette – Agree wholeheartedly. Trouble in finding institutional history here at the Department. Historical documentation of what we have done to date would be very helpful.
  - Joe Plummer – Get someone from Energy Star to present on market saturation of appliances is an idea for future topic.

- Leo Steidel – In new measures in the Northwest Regional Technical Forum, they put an estimated retirement date for each item, revised annually.
- Jessica Burdette – Notes Mary Sue Lobenstein is here, CARD representative. We could hit roadblocks, so we should think about how CARD can be utilized if we need additional information.
- Joe Plummer – If anybody has an idea for a presentation on a new technology, contact me