

IL EE Stakeholder Advisory Group
Attendee Lists and Meeting Notes
 Tuesday, June 24th, 2014
 10:00am – 4:30pm
Midwest Energy Efficiency Alliance
20 North Wacker Drive, Suite 1301
 Call-In Number: 760-569-6000
 Passcode: 844452#

Technical Advisory Committee Meeting 10:00am – 12:30		
Time	Agenda Item	Discussion Leader
10:00 – 10:10	Opening and Introductions	Annette Beitel
10:10 – 11:00	Electronic TRM <ul style="list-style-type: none"> • Overview • Demonstration of use Purpose: Determine next steps.	Stefano Galiasso and Shraddha Raikar, Energy Resources Center, UIC
11:00 – 12:30	TRM Version 4.0 <ul style="list-style-type: none"> • Follow-up discussion of low, medium, high priority measure list Purpose: Finalize measure list prior to July 1 st ; discuss WP status for each measure and who is responsible for completing.	Erin Carroll, VEIC
12:30 – 1:00	Lunch	
Afternoon SAG Meeting 1:00 – 4:30pm		
1:00 – 1:50	Smart Devices <ul style="list-style-type: none"> • Overview • Commission directives • Opportunities Purpose: Determine next steps and whether subcommittee will be formed.	Curt Volkmann, ELPC; Kristin Munsch, CUB
1:50 – 2:40	IL EE Policy Manual <ul style="list-style-type: none"> • Overview • Commission directives • Discussion of issues to include • Timeline and process for developing 	Karen Lusson, IL AG

	Purpose: SAG feedback on topics, outline and timeline/process for IL EE Policy Manual.	
2:40 – 3:30	Combined Heat and Power <ul style="list-style-type: none"> • Commission Directives • Issues to Discuss • Proposed Subcommittee goals, timeline, process Purpose: Refine outcome, issues, timeline, process, participation for CHP Subcommittee	Annette Beitel
3:30 – 3:45	Break	
3:45 – 4:20	Gas Utility Directives to SAG <ul style="list-style-type: none"> • Review Commission Directives to SAG for Nicor Gas, Peoples Gas-North Shore Gas • Discuss schedule and updated Process and Plans memo Purpose: Determine next steps.	Annette Beitel
4:20 – 4:30	Closing	Annette Beitel

Attendee List – TAC Meeting

Annette Beitel, SAG Facilitator
 Celia Johnson, SAG Senior Policy Analyst
 Chris Neme, Energy Futures Group, on behalf of NRDC
 Becky Stanfield, NRDC
 Anne McKibbin, Elevate Energy
 Marcella Bondie Keenan, Elevate Energy
 Stefano Galiasso, ERC/UIC
 Roger Baker, ComEd
 Mike Brandt, ComEd
 Pat Michalkiewicz, Peoples Gas-North Shore Gas
 Randy Gunn, Navigant
 Rob Neumann, Navigant
 Paige Knutsen, Franklin Energy
 Sue Nathan, AEG, PG-NSG
 Chris Vaughn, Nicor Gas
 Bridgid Lutz, Nicor Gas
 Keith Goerss, Ameren IL
 Ali Al-Jabar, Consult BAI
 Ben Lipscomb, PECl
 Bev Hall, Ameren IL
 Bridget Bass, ShowerStart
 Chelsea Lamar, Navigant

Erin Carroll, VEIC
George Roemer, Franklin Energy
Grace Pedersen, UIC
Jennifer Hinman, ICC Staff
Jim Armstrong, Lockheed Martin
Jim Fay, ComEd
Jim Jerozal, Nicor Gas
Ted Weaver, First Tracks Consulting on behalf of Nicor Gas
Keith Martin, Ameren IL
Ken Woolcutt, Ameren IL
Kevin Grabner, Navigant
Matt Drury, ODC
Phil Mosenthal, Optimal Energy, IL AG's Office
Ryan Hoger, TEC Mungo
Sam Dent, VEIC
Shraddhar Raikar, ERC/UIC
Travis Hinck, GDS Associates
Jim Zolnierek, ICC Staff
Chris Neme, Energy Futures Group, on behalf of NRDC
John Knuth, APT
Bridgid Lutz, Nicor Gas
Dean Karafa, EDS Power
Norma Elizondo, ShowerStart
Grace Pedersen, UIC
Jim Armstrong, LMCO
Ben Lipscomb, PEI
Ali Al-Jabir, Consult BAI
George Roemer, Franklin Energy
Matt Drury, Opinion Dynamics
Chelsea Lamar, Navigant
Alastair Hood, Verdafero
Jansen Pollock, ComEd
Andrew Cottrell, Applied Energy Group
Deb Perry, Ameren IL
Hammad Chaudhry, Nicor Gas
Tim McAvoy, CLEAResult
Steve Baab, ComEd
Jane Colby, Cadmus
John Paul Jewell, ELPC
Louis Lampley, ComEd
Nathan Bohne, UIC
Mark Kelly, Caterpillar
Mark Thomson, Think Eco Inc
Kim Ballard, Ameren IL
Jamie Doss, ShowerStart
Anthony Star, IPA

George Malek, ComEd
Malcolm Quick, Nicor Gas

Meeting follow-up is highlighted in yellow.

Meeting Notes – TAC Meeting

Electronic TRM, Stefano Galiasso, ERC/UIC

- Overview of electronic TRM functionality in Excel.
- Every lookup table in the TRM becomes a drop-down.
 - White boxes are user inputs.
 - Gray boxes are either look-ups or calculated values.
 - Hyperlinks pull up the worksheet with additional information.
- How to find particular measures?
 - Currently it is grouped by commercial and residential. Sub-categories can be added; ERC is working on this.
- How accurate is the estimate of the TRC?
 - Average yearly values will be used.
 - Utilities will have to provide values; will need to be publicly available information.
- Since these are prescriptive measures in the TRM, how are the TRC values going to get used? Why are they needed?
 - As a planning tool / for information. It's not meant to substitute something that utilities are using.
- Question on version control with the tool; updating inputs; etc. How can this be controlled so whoever goes to look at it is looking at the accurate document?
 - 1) Timestamp to name correct version. Algorithms are updated with every version of the TRM. 2) Locking every cell that is not an input. "Tinkering" can happen only the values being input, not on the equations.
- There are a lot of potential measure combinations.
- DCEO uses this for planning, to figure out savings to input in DSMore.
- Is it possible to calculate a program-level TRC?
 - Yes, this is possible.
- DCEO is willing to share this with others. The document is done for TRM Version 3.0.
- Are the inputs used when you first open it the most likely to be used in the program, or where is the default coming from? Forcing users of the program to choose is a better option.
 - This wasn't a consideration. The spreadsheet can be updated so that users don't see any savings until an input is provided.
- What is the timeframe for a new TRM / how easy is it to update?
 - It depends on the magnitude of the changes. EISA complications have been included at this point. Since ERC is involved in the TRM update process, they can anticipate where changes are going. Estimated 3 weeks to complete an update.

- Perhaps could talk about included avoided costs in the future; that type of information is not included now.
- Is there a worksheet with non-measure specific inputs?
 - It is embedded in this version.
- There are other proprietors who are developing this (ESP – has completed this for Michigan). Has ERC looked at other versions?
 - No, have not looked at other versions. Will look at others, but this is probably out of the scope of this effort.
- **Action Items:**
 - Request for SAG Participants to provide feedback. Is this useful? Should it be taken to the next level? How do you want to control program inputs, measure inputs? What would be the best implementation for you?
 - Chris Neme suggestion: It is potentially easier to find a value using this, as long as it is relatively easy to find the measures (the measures or category of measures).

TRM Version 4.0 Final TRM Update List – VEIC, Erin Carroll; Sam Dent

- Budget included 40 tracker items; there are 57 total. Completing all 57 would result in 128 additional hours/higher budget cost.
- Guidelines were given at last TAC meeting on establishing priorities.
- Work paper format has been simplified.
- Overview of high, medium, and low priority measures.
- A number of requests are not very detailed. These requests are counted towards the total tracker number, because it
 - Items start to evolve when work papers are submitted.
- Jim Jerozal, Nicor Gas: Part of DCEO's Order included putting a CHP component into the TRM. Is the CHP Measure on this list?
 - It is not on the list currently; however, it should be added.
- Keith Goerss: If extra work is undertaken, will it still be completed within same timeframe?
- **Action Items:** VEIC to follow-up with utilities on whether additional budget is acceptable. VEIC will report-out to the group at the July 8th TRM TAC meeting. If add'l funding not available, July 8th TRM TAC will involve deciding on final measure list.
- **Questions:**
 - 1) What is the system for prioritizing the measures?
 - 2) Does a utility have to sponsor a measure for it to be included in high priority list?

Afternoon Meeting

Attendee List

Annette Beitel, SAG Facilitator
 Celia Johnson, SAG Senior Policy Analyst
 Roger Baker, ComEd
 John Cuttica, ERC/UIC

Keith Martin, Ameren IL
Randy Gunn, Navigant
Samantha Chu, Building Research Council
Jim Eber, ComEd
Anne McKibbin, Elevate Energy
Marcela Bondie Keenan, Elevate Energy
Kristin Munsch, CUB
Bryan McDaniel, CUB
Curt Volkmann, ELPC
Paige Knutsen, Franklin Energy
Sue Nathan, AEG
Pat M Michalkiewicz, Peoples Gas-North Shoes Gas
Chris Vaughn, Nicor Gas
Brigid Lutz, Nicor Gas
Ted Weaver, First Tracks Consulting, on behalf of Nicor Gas
Jon Jackson, Ameren IL
Keith Goerss, Ameren IL
Mike Brandt, ComEd
Jim Jerozal, Nicor Gas
Becky Stanfield, NRDC
Stefano Galiasso, ERC/UIC
David Baker, DCEO
Cass Kubes, MEEA
Justin Vickers, ELPC
Karen Lusson, IL AG
Ashley Collins, 360 Energy Group
Brittany Gifford, Mayor's Office
Rob Neumann, Navigant
Paul Issac, Franklin Energy
Kate Tomford, DCEO
Blake Baron, Giordano & Associates, Ltd.
Will Baker, MEEA
Malcolm Quick, Nicor Gas
Phil Mosenthal, Optimal Energy on behalf of IL AG
Shraddha Raikar, ERC/UIC
Travis Hinck, GDS Associates
Anthony Star, IPA
Deb Perry, Ameren IL
Erin Carroll, VEIC
George Malek, ComEd
Jane Colby, Cadmus
Jennifer Hinman, ICC Staff
Jim Zolnierak, ICC Staff
John Knuth, APT
John Paul Jewell, EPC

Ken Woolcutt, Ameren IL
Louis Lampley, ComEd
Pat Sharkey, Environmental Law Counsel, on behalf of MCA
Ryan Hoger, TEC
Norma Elizondo, ShowerStart
Jansen Pollock, ComEd
Hammad Chaudhry, Nicor Gas
Kim Ballard, Ameren IL
Tim McAvoy, CLEAResult
Jamie Doss, ShowerStart
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Chelsea Lamar, Navigant
Grace Pedersen, UIC
Ben Lipscomb, PEI

Kevin Grabner, Navigant
Dean Karafa, EDS Power
Steve Baab, ComEd

Meeting Notes

Smart Devices – Curt Volkmann, ELPC; Kristin Munsch, CUB

- Jim Eber: What is the pricing incentive related to the programs?
 - Curt Volkmann: will send link to ACEEE paper.
- Annette Beitel: What was decided regarding customer usage data?
 - Follow-up: Final Order / Commission Conclusion regarding framework on customer usage data. This may have implications for EM&V; Kristin can come back to SAG with additional information once Final Order is released.

- Green Button Download – a DOE sponsored, utility-led initiative that establishes standards.
 - Chris Neme: When will this be available?
 - Jim Eber: The download is available now; if you don't have a smart meter, you can get monthly data (it is every 30 minutes for residential customers. It will be faster.)
 - Kristin: There will be a lot more functionality available in Q1 2015 for ComEd. Ameren IL has a slightly slower roll-out period. There is an ICC discussion going on right now. **If anyone is interested, let Kristin know.**
- Phil Mosenthal: How would a utility have access to this data?
 - This could be used where the utility has a program for that customer.
- Think-E plug for window A/C units – a program in NY uses this.
- Commission Final Orders
 - Important to take a step back and look at how devices can be used. Commission was clear that stakeholders should start thinking about how we can use this / where it has potential.
 - Where can we fill gaps? Are there ways to use smart devices to bring down costs, verify actual savings using bill data?
- Keith Martin, Ameren IL: What does the language mean, in interpreting how smart devices can be incorporated?
 - Kristin Munsch, CUB: It's a balance; this does not have to be restricted to smart devices that only use AMI data.
- Jim Eber, ComEd: First Smart Devices from ComEd; ComEd is calling this a "smart meter connected device." Second round of technology trials are currently being finalized.
 - Customers purchase these devices; cost is \$80-\$100. Savings estimate 8-12%.
 - Other updates: Peak time savings program is launching in the fall; Nest program is fully subscribed.
 - Jim would like to identify a customer enabling program.
- Keith Goerss, Ameren IL: What price signals are customers getting? Vast number of people have a flat price. There is a need to get the suppliers engaged somehow.
 - **Kristin Munch, CUB: It may be useful to come back and fill in the SAG for discussions that have gone on. There may be alternate suppliers offering additional rates. CUB would like to see the development of other dynamic pricing options.**
- Chris Neme, Energy Futures Group/NRDC: Ameren IL program showed that aggregate consumption went up; what if
 - Jim Eber, ComEd: ComEd analysis showed 4% conservation over 4 years.
- Next steps: Full transparency of device compatibility and availability on the ComEd and Ameren websites; a vendor forum; etc.
- Keith Martin, Ameren IL Update: The most basic thing is putting the data out there. Ameren IL is in discussion with several manufacturers. One thing that needs to be studied in the roll-outs in the engagement rate / penetration rate.

How do we get customers engaged. The best technology is a smart device that is a “set it and forget it” technology. Mentioned logistical customer service challenges; customers may purchase a device but smart meters may not have entered their territory yet.

- Follow-up: Functionality / broader framework discussion – how can we integrate for R&D spend? How can the framework and principles be set up?

IL EE Policy Manual – Karen Lusson, IL AG’s Office

- Jim Jerozal: Question on whether this is strictly limited to evaluation procedures?
- Chris Neme: It depends on how you define evaluation. Everything listed can be considered under the umbrella of the term “evaluated.”
- What do the potential studies have to do with evaluation?
 - Karen Lusson, IL AG: Potential studies have to do with delivery of the programs; it is an important component.
- Keith Goerss: Will the Subcommittee reach out to other parties to help them engage?
 - Karen Lusson, IL AG: Yes. Also, the purpose is to provide a document to the Commission. Not every topic will be discussed in this subcommittee (for example: CHP savings will be discussed elsewhere). It will be important for volunteer subcommittee members for a particular topic to research what the Commission has said on the topic (for example: administrative costs definition).
- Keith Goerss, Ameren IL: What happens if there is not consensus on a particular issue in the Policy Manual?
 - Karen Lusson, IL AG: This will be an open docket, filed with the Commission. There is a possibility there will be non-consensus items.
 - Keith Goerss, Ameren IL: Legal needs to be engaged up-front. Mentioned concerns about taking on topics in the Policy Manual that not all utilities have.
- Karen Lusson, IL AG: Goal is to create a policy that will result in less litigation.
- Randy Gunn, Navigant: Have you looked at other successful policy manuals that this should be modeled on?
 - Karen Lusson, IL AG: Not necessarily; this is not meant to be an incredibly lengthy document.
- Keith Goerss, Ameren IL: Looking at a consensus-only document is different that including non-consensus items.
- Annette Beitel: The SAG has not been limited in the past by specific issues.
- Follow-up: Email Celia within 5 business days with suggestions of other topics; also to be a member of the Subcommittee. If anybody thinks there are issues that should come off of Karen’s list, please send that as well. If there is interest on a legal discussion prior to the 15th, please email Annette.

Gas EE Plan Final Orders (Celia Johnson, SAG Senior Policy Analyst)

- Overview of Commission Analysis and Conclusions, including directives to SAG.
- Follow-up: EE SAG Process and Plans Memo and Draft Schedule for 2014-2015 will be updated and added to the website (www.ilsag.info).

CHP Discussion (Annette Beitel, SAG Facilitator; All)

- Overview of Commission Directives
- Ted Weaver, First Tracks Consulting, on behalf of Nicor Gas: There are two measures approved in the Program related to CHP.
 - There are a few pages of Jim Jerozal's testimony regarding CHP.
- There are no measures related to CHP for Peoples Gas-North Shore Gas.
- Issue 1: What is the timing for this?
 - Pat Sharkey suggested pushing this up to September. No participants objected to this – date will be updated to September. Pat also advocated for expediting the Subcommittee meetings as was done with the Large C&I Subcommittee, and no participants objected to this.
- Issue 2: Whether this Subcommittee should cover defining fuel-switching; other fuel-switching measures?
 - Phil Mosenthal: There may be other fuels included (like oil).
 - Pat Sharkey – MCA objects to Phil's suggestion that this Subcommittee focus more generally on "fuel switching" measures, if that means delaying evaluation of the standalone CHP program which the ICC specifically ordered be addressed by the SAG ASAP. This is a very important point for MCA.
- Issue 3: Calculating savings for CHP (3 sub-issues).
 - Phil Mosenthal: Additional issue is the cost allocation. Should costs be coming from both gas and electric ratepayers?
- John Cuttica, ERC/UIC: The first issue of site vs. source has been settled by the Commission.
 - Issues will be discussed further at the first Subcommittee meeting (Tues. July 15th).
- Overview of additional issues in circulated document.
- First Subcommittee meeting (Tues., July 15th):
 - Timeline, process, discussion of issues.
 - Additional issue to discuss at first meeting:
 - Should the same CHP requirements be consistent across the state?
 - Will CHP be a separate program, or will CHP be a measure within another utility program?
 - Will this be a measure, or a program in the TRM?
- Follow-up: Email Celia within 5 business days with other issues, also whether you would like to be a member of the Subcommittee.
- Jim Jerozal to send his testimony to Annette regarding CHP.