

## **Illinois Energy Efficiency Stakeholder Advisory Group**

Large Group Meeting

**Tuesday, July 31, 2018**

10:00 am – 4:00 pm

Midwest Energy Efficiency Alliance (MEEA)  
20 N. Wacker Drive, Suite 1301, Chicago, IL

### **Attendees (in-person)**

Celia Johnson, SAG Facilitator

Nick Hromalik, Midwest Energy Efficiency Alliance (MEEA) – SAG Meeting Support

Kristol Simms, Ameren Illinois

Cheryl Miller, Ameren Illinois

Dana Bolton, ComEd

Mike Brandt, ComEd

Todd Thornburg, ComEd

Jim Fay, ComEd

Noel Corral, ComEd

Jim Lyon, ComEd

Jim Fay, ComEd

Molly Lunn, ComEd

Julie Hollensbe, ComEd

Randy Opdyke, Nicor Gas

Mark Szczygiel, Nicor Gas

Chris Vaughn, Nicor Gas

Omayra Garcia, Peoples Gas – North Shore Gas

Christina Pagnusat, Peoples Gas – North Shore Gas

Koby Bailey, Peoples Gas – North Shore Gas

Paige Knutsen, Franklin Energy on behalf of Peoples Gas – North Shore Gas

Blaine Fox, CMC Energy

Chris Energy, Energy Futures Group on behalf of NRDC

Stacey Paradis, MEEA

Leah Scull, MEEA

Nick Dreher, MEEA

Bryan Tillman, 360 Energy Group

David Baker, Energy Resources Center, UIC

Stefano Galiasso, Energy Resources Center, UIC

Noelle Gilbreath, Community Investment Corp.

Holly Spears, SEEL

Sari Mira, SEEL

Ashley Lucier, SEEL

Andrey Gribovich, DNV-GL

Brett Bridgeland, Seventhwave

Phil Flaherty, Bidgely

Laura Agapay-Read, Navigant

Randy Gunn, Navigant

Rob Neumann, Navigant  
Briana Parker, Elevate Energy  
Ashley Palladino, Resource Innovations  
Atticus Doman, Resouce Innovations  
Angie Ziech-Malek, CLEARResult  
Shaun Dentice, CLEARResult  
Theo Okiro, Future Energy Enterprises  
Andre Walton, Future Energy Enterprises  
Aimee English, Citizens Utility Board (CUB)  
Kristin Munsch, CUB  
Will Baker, Google  
Jason LeFleur, Gas Technology Institute (GTI)  
Dan LeFevers, GTI

**Attendees (by phone)**

Michelle Ackmann, ComEd  
Gary Ambach, Seventhwave  
Josh Arnold, Navigant  
Janice Boman, Embertec  
James Carlton, (add)  
Jane Colby, Cadmus Group  
Andrew Cottrell, Applied Energy Group  
Claire Cowan, Seventhwave  
Tim Cycyota, CLEARResult  
Mark DeMonte, Jones Day on behalf of Ameren Illinois  
Erin Daughton, ComEd  
Allen Dusault, Franklin Energy  
Jonathan Feipel, Environmental Law & Policy Center  
John Flotterud, Michaels Energy  
Delmar Gillus, Elevate Energy  
Keith Goerss, Ameren Illinois  
Amir Haghighat, CLEARResult  
Jim Heffron, Franklin Energy  
Travis Hinck, GDS Associates  
Tamaira Jackson, Ameren Illinois  
Jonathon Jackson, Ameren Illinois  
Cheryl Jenkins, VEIC  
Cheryl Johnson, People for Community Recovery  
Lawrence Kotewa, Elevate Energy  
Chelsea Lamar, Navigant  
John Lavallee, Leidos  
Monique Leonard, Ameren Illinois  
Teri Lewand, ComEd  
Juan Carlos Linares, LUCHA  
Tim Melloch, Future Energy Enterprises  
Keith Martin, Ameren Illinois

Darren Meyers, IECC, LLC  
Wade Morehead, Leidos  
Jennifer Morris, ICC Staff  
Phil Mosenthal, Optimal Energy on behalf of IL Attorney General's Office  
Agnes Mrozowski, Ameren Illinois  
John Myers, Ameren Illinois  
Victoria Nielsen, Applied Energy Group  
Julia Sander, Leidos  
Edward Schmidt, MCR Group  
Milos Stefanovic, ComEd  
Suzanne Stelmasek, Elevate Energy  
Jordana Temlock, Bidgely  
Evan Tincknell, Opinion Dynamics  
Brian Tomkins, Metropolitan Mayors Caucus  
Andy Vaughn, Ameren Illinois  
Joanne Williamson, Ameren Illinois  
Ellen Craig, Enovation Partners  
Michael Marks, Applied Energy Group  
Anthony Santarelli, Energy Resources Center, UIC  
Laura Agapay-Read, Navigant  
Ken Anno, CIC Energy Consulting  
Brett Bridgeland, Seventhwave  
Blaine Fox, CMC Energy  
Mary Ellen Guest, Chicago Bungalow Association  
Michael Jung, Varentec  
Jason Kazmar, CLEAResult  
Anne McKibbin, Elevate Energy  
Patricia Plympton, Navigant  
Maged Kafafy, DNV-GL

### **Meeting Notes**

Next steps/action items are indicated **in red**. Questions that require follow-up are indicated **in yellow**.

### **Opening and Introductions (Celia Johnson, SAG Facilitator)**

- Introduction to Nick Hromalik, policy manager at MEEA. Nick will provide meeting support to the SAG.

### **SAG Planning (Celia Johnson, SAG Facilitator)**

- Overview of draft 2018 SAG Plan and schedule; draft SAG Process Guidance document.
- Overview of SAG goals; SAG is forum to allow parties to express different opinions, better understand opinions of others, and foster collaboration and consensus.
- SAG should also be a platform to share ideas and innovative topics. Suggestions on innovative topics and/or how best to incorporate this into SAG are welcome.

- Moving to quarterly large group meetings (from monthly).
- The main subcommittee this year will be the Policy Manual Subcommittee.
- Working Groups are designed to resolve short-term issues via teleconference. Working Groups for 2018 include: Non-Energy Impacts; Annual Report Template; and Income Qualified (as needed).
- **Policy Manual Subcommittee**
  - The first meeting will be held in September.
  - The updated Proposed Policy template will be circulated to SAG.
  - There is an existing list of policy issues that need to be addressed in Version 2.
  - The key focus of the first meeting will be to determine the prioritization list.
  - The goal is to finalize Version 2.0 by March 1, 2019.
  - Anticipated effective date of the Policy Manual – this is an open question. Interested in thoughts as to what the date should be.
- **EM&V Subcommittee**
  - Subcommittee is expected to launch in early 2019.
  - Plan for this year: will meet with interested parties to discuss prioritization and create a plan of action for our process in 2019.
- **SAG Working Group: Non-Energy Impacts**
  - Defensible methodologies will be discussed.
  - Draft research plans will be discussed.
  - Process discussion also needs to occur before first set of results released: how should NEIs be incorporated into the TRM and/or used in cost effectiveness analysis?
  - Q: Job impacts needs to be a part of this discussion, but maybe a different framing than other NEIs, is this to be a part of this working group or somewhere else?
    - A: Yes, the job impacts discussion will start with this group. Navigant is looking at job impacts as part of their research. This may be a new Working Group next year, if needed.
- **Annual Report Template Working Group**
  - Goal is get a statewide report set of template tables to be included in utility Annual Reports. There is a list of topics for the Annual Report Template in the Policy Manual.
  - Calls will begin in early October.
  - Annual Report Template will be finalized early December.
- **Income Qualified Working Group**
  - If a policy or technical issue needs to be addressed it should be covered in SAG. As of now there are no issues that do not currently belong in the Income Qualified EE Advisory Committee.
- **SAG Website Re-Design**
  - The SAG website will be re-designed in 2018.
  - RFP will be finalized soon and circulated to SAG.
- **Next steps –**
  - **SAG Planning Materials**

- Comments on the draft 2018 SAG Plan/schedule are due by COB on Tuesday, August 14.
- Comments on the draft SAG Process Guidance document are due by COB on Tuesday, August 14.
- **Policy Manual Subcommittee**
  - Proposed policies are due by COB on Friday, August 31 – please complete the Proposed Policy Template.
    - Participants are encouraged not to propose substantive changes to policies already agreed upon in the existing Policy Manual, unless there is rationale to make the change.
  - SAG Facilitator will follow-up with Policy Manual Subcommittee participants in August on the tracking list of policy issues. There is an existing list of policy issues that need to be addressed in Version 2.
- **SAG Website Re-Design**
  - If you have any web developers to suggest, please send to SAG Facilitator.

## **ComEd EE Research & Development (R&D) Programs (Jim Fay, Noel Corral and Jim Lyon, ComEd)**

### ***Emerging Technologies Framework (Noel Corral)***

- Background: FEJA permits ComEd to spend 6% of its EE budget for research development (\$13.3 million per year).
- There is immediate need for R&D.
- Large list of stakeholders and participants helped with vision and development.
- 5 key visionary statements:
  - Be a leader in innovation
  - Strongest market and program impacts
  - Highest customer satisfaction
  - Steady stream of new products transitioned into customer offerings
  - Industry leadership (tech papers, conferences)
- Purpose: to identify, test, validate, and integrate into program offerings. New energy technologies, but also EE program delivery strategies, reaching customers and getting their participation.
- Criteria: alignment with eight objectives, potential benefit per ET dollars, probability of success, timing of the pay-off.
- Key initiatives: Developed program framework, built structure, hired CLEAResult to administer program.
- Next step will be to have strategy discussions between ComEd team with implementation contractor, then conduct a baseline study.

### ***Income Eligible Call for Ideas (Jim Fay, ComEd)***

- Spend goal (\$6mil over 4 years); component of overall Emerging Technologies program.

- Goals for call for ideas: new ideas, two dozen new ideas from new sources, cast wide net to sources ComEd does not usually hear from.
- Focused on program delivery and broader definition of innovation.
- There were early discussions on benchmarking; spoke to ARPA-E and New York colleagues.
- Knew we needed to simplify: 5 page solicitation, 3 page response limit.
- Sent “call” out on March 8; on April 5 received 109 responses.
- Current implementer responses totaled less than 20%. Also heard from governments (5%), universities (22%), nonprofits (18%), for-profits (23%), research-based (14%). 51 different organizations.
- Most projects were 1-2 years.
- Next round of calls needs to emphasize speed to market.
- Most proposals were new ideas for customer outreach (over half), not just new technology.
- 15 ideas were implementation ready.
- 6 ideas were not specific Income Eligible ideas so moved over to R&D.
- Many were deferred until 2019 and we are conducting technological assessments to determine if the idea can move forward.
- Q: Any local responses?
  - A: Mostly local, but we got responses nationally as well.
- Q: What are the costs involved?
  - A: Over \$75 million was provided, but a range of projects amounts, so forced us to prioritize projects.
- Q: Of the 20-23 moving forward what is that budget outlay look like?
  - A: Still figuring out 2018 and 2019 outlay.
- Q: Of the ideas moving forward, are any community-based organizations?
  - A: Most were traditional tech implementors, but a few were community organizations.
- Q/Statement: We should have a bidders’ call for all who submitted ideas and be proactive in engaging with people if we want to get new ideas in the future.
- Q: Who is measuring success of the program?
  - A: The program/ideas will be evaluated by Navigant just like all our other programs.

***Baseline Study (Jim Fay)***

- Statistical representation survey of all ComEd customers to determine energy using equipment stock, efficiency, age, utilization.
- Potential study to determines energy saving potential.
- Timeline: Feb. RFP sent out, April 5 got good bids, June selected Itron, hope for contract with Itron in August, final report in Summer 2019.
- Q: Can the results of the baseline be an agenda item for a SAG large group?
  - A: Yes.
- Utilizing and incorporating AMI data is a big feature of this baseline study.
- Dealing with aggregation bias: For the baseline survey results don’t want it to be static results, want data analysis capability.

- Stock turnover model goal: build a dynamic view of how the market is changing over time, and what our role is in changing the stock.
- Want to understand the energy distribution; want to understand how to engage more customers.
- Baseline will start Summer 2018, with results Summer 2019.
- Baseline will help us better understand our program potential moving forward.
- Q: Are you doing on-site surveys for all sectors?
  - A: Yes, but using a different sample approach depending on the sector.
- Q: Chris Neme – For C&I, to what extent are you assessing custom savings?
  - A: ComEd will discuss internally and follow-up.
- Q: How do you deal with large customer exemptions in your baseline?
  - A: We know who those customers are and we exclude them.
- Next steps: SAG Facilitator will schedule a presentation on ComEd's baseline study in 2019.

### ***Emerging Technologies Program (Jim Lyon in place of Mark Milby)***

- LUCHA Passive House:
  - Focus on super tight weatherized homes, can downsize mechanical equipment to cover increased cost of weatherization, which all comes out about the same price.
  - Will do comparison, assess air quality, comfort, market potential, develop new standards for construction potential.
- HVAC SAVE:
  - Trade ally tool, with CLEAResult and MEEA as our partners.
  - Create score on if it is a quality install or not.
  - Collecting data from Navigant to see if can be included in TRM next year.
- Energy Water Nexus:
  - Developed with Elevate Energy, research study on what is the kilowatt to gallon of water delivered.
  - Presented to SAG previously, if this became part of TRM it could provide some real potential to lower customer costs, could create an agriculture program with new irrigation technology.
- Save and Share Mobile App:
  - Working in Bronzeville area with Faith in Place to provide innovative week ahead energy forecasting
  - EnergySavvy data analytics is able to broadcast next week's accurate use and potential savings.
- enVerid Adsorbent Air Cleaner:
  - Seventhwave helped design: scrubs contaminants from indoor air to reduce the amount of outside air ventilation required to proper IAQ, which means you don't have to treat as much outdoor air.
  - Developing a TRM measure at the same time we are studying the nuts and bolts of installation and what building engineers think about it.
- Q-Synce Synchronous Motors:
  - Seventhwave and QM Power, EE motors for refrigerators in grocery store walk-in display cases.

- Ductless Heat Pumps:
  - Main issue is how we encourage market impact in income eligible and multi-family; trying to expand this program.
- Q: How are these ideas being included in the baseline studies?
  - A: No current emphasis to include them; we want the baseline to be more about where we are today.
- Q: Do you have evaluated savings for HVAC Save for Iowa program?
  - A: We do have them, looking to have updated numbers in time for the next version of the IL-TRM. Draft report next spring.

## **Ameren Illinois Quarterly Report-Out (Q1 2018); Overview of PY9 and Transition Period Results (Kristol Simms, Ameren Illinois)**

### ***Overview of PY9 and Transition Period Results***

- Appliance Recycling Program is being offered.
- Multifamily is now being implemented, but not in transition period.
- Full buildings program in 2018 with incentives, continued BOC with MEEA during transition.
- Home efficiency income qualified: we serve those at 300% poverty line or below.
  - 26 community action agencies, coordinated by an administrator.
- Lighting discounts- 800 retail stores, including smaller stores (beyond big box) to reach more customers locally.
- Appliance recycling is back and in full swing, \$50 rebate for fridge.
  - Appliance does not need to be 10 years old (note: slide incorrect); this was a previous requirement.
- Goal: Achieve ICC-approved saving targets, but really also want to improve quality of life for all communities.
- Market Development Initiative has three main goals:
  - Increase diversity of workforce
  - Increase diverse vendors
  - Increase customers or communities not normally participated in program
- Working with community-based organizations to help implement different programs, with a variety of delivery methods/mechanisms.
- EE Summer internship program:
  - Has a diversity focus to increase the pipeline within our service territory.
  - Provide 20% of their time with EE education plus a two day seminar.
- Smart Thermostat Initiative:
  - Plan to provide 300,000 to customers over life of FIJA.
  - Strongly committed to program even if some technical issues.
  - Strong interest in technology, there is a need and interest.
  - Allows us to add additional programs to the customer once they are in smart thermostat.
- Q: What is the incentive for waste water?
  - A: \$0.21 (same as ComEd)
- Q: Chris Neme – What is the breakdown between multi-family and single family?
  - A: Ameren IL will look into this and follow-up.



- Q: What is the status of affordable housing new construction program?
  - A: A few projects are still open, but the program is not continuing.
  - Additional information following meeting – Ameren Illinois remains committed to working with customers/allies/organizations for all new construction projects – including Affordable Housing. Applications for these projects can go through the [New Construction Lighting Application](#) or the [Custom Application](#).

## **ComEd Quarterly Report-Out (Q1 2018); Overview of PY9 and Transition Period Results (Julie Hollensbe, ComEd)**

### **2018 Q1 Overview**

- Overall highlights:
  - 17% to goal, 20% to budget.
  - Residential: lock step on goal and budget.
  - Residential has traditional programs from the past, so easier to stay in lock step with budget and goal.
  - Business, both public and private, there is a bit more of a ramp up needed.
- Q: Are you serving both public sector and private?
  - A: Yes, includes universities and public schools, but not counting it toward our stipulation.
- Residential:
  - Lighting discounts are a strong contributor in portfolio (2.2 million products) fixtures and bulbs, although it is primarily bulbs.
  - 10,300 units recycled, both fridge and freezer recycling.
- Q: Income eligible lighting, have you done any outreach through stores?
  - A: Yes.
- Q: On-bill financing status? Where is it managed?
  - A: In both residential and small business, not really a part of income eligible because there is no cost to the customer.
- Q: Linear lighting fixtures have bigger savings with integrated controls, thoughts?
  - A: Hard to balance the cost, it is a stretch for some but doable for others.
- Business:
  - Over 1,000 small business projects completed.
  - Over half a million instant discount projects.
  - 29 industrial projects with 66 more projects in the pipeline.
  - Customers are more aware which is why we did 350 assessments.
- Q: How is the LED street lighting program going?
  - A: Street lights on public are municipal-owned, the business ones are ComEd-owned.
  - Stacey Paradis: MEEA has lessons learned that we can share and model for other municipalities.
    - **SAG Facilitator to follow-up with MEEA and ComEd on LED street lighting; this may be scheduled at SAG for future discussion.**

## **Nicor Gas Quarterly Report-Out (Q1 2018); Overview of PY6 and Transition Period Results (Chris Vaughn, Nicor Gas)**

### ***Program Year 6***

- Therm savings target achieved.
- Maintained a balanced budget.
- During transition period, the goal was to maintain what the Department was already doing.
- Continued with weatherization assessments; completed over 120.
- Focused on market transformation like education for real estate that have non-therm benefits.
- Cold Water Laundry Pilot was successful, 20% transferred to market after pilot ended.

### ***2018, Q1***

- Boiler replacement was higher than expected.
- Programs were ramping up during Q1.

## **People Gas – North Shore Gas Quarterly Report-Out (Q1 2018); Overview of PY6 and Transition Period Results (Christina Pagnusat and Omayra Garcia, Peoples Gas –North Shore Gas)**

### ***Program Year 6***

- Home Energy Jumpstart:
  - 10,000 homes (PGL); 2500 homes (NSG)
- Completed 450 projects (Chicago Bungalow Energy Savers).
- 108 multi-family assessments completed in 2017.
- Smart Check Program:
  - 36 customers enrolled
  - Provides 3 year roadmap for EE plans
  - 5.5 million therms identified
- Small business:
  - 385 projects PGL
  - 85 projects NSG
  - Small business fuel efficiency breakfast provides collaboration and networking opportunities.
- Achieved triennial goals.
- Used bridge period to engage income eligible vendors.

### ***2018, Q1***

- Strategic management cohort with ComEd for 12 large industrial users.
- Working hard to engage our public sector customers.
- Residential: worked with ComEd on smart thermostat and therm-sharing agreement.

## **Closing and Next Steps (Celia Johnson, SAG Facilitator)**

### ***Any feedback or suggestions on future quarterly report outs? What would participants like to hear about?***

- A quick summary of numbers and then highlights of programs would be informative. Each utility could do a deeper dive on something they are working on (such as R&D) or a new initiative during quarterly report-outs.
- **Next steps:**
  - Quarterly report-outs will be combined into two presentations per year, to allow time for more topics to be presented at SAG.
  - Utilities will be asked to focus on a program/initiative for each twice-yearly quarterly report-out.
  - A link to download utility quarterly reports will be circulated to SAG for quarters when utilities are not presenting.

### ***Innovative Topics – Any feedback or suggestions on how to incorporate in future SAG meetings?***

- Presenter should have to answer 3-4 questions to keep the topic/conversation focused.
- Schedule a presentation in come eligible/qualified program challenges and successes, since it is a new issue for many people. There is room for this discussion in SAG, especially on evaluation and technical items.
- There is interest in learning more about MEEA's street lighting work. MEEA is still working on this.
- **Next steps:**
  - SAG Facilitator will prepare/circulate a template for innovative idea requests.
  - Please contact the SAG Facilitator with any innovative idea suggestions.
  - SAG Facilitator will follow-up with VEIC (IL-TRM Administrator) on a parallel process for new measure ideas to be submitted for the next version of the IL-TRM (Version 8.0), which will kick-off in spring 2019.

## **Summary of Next Steps/Action Items**

SAG Facilitation contact information:

- Celia Johnson
- [Celia@CeliaJohnsonConsulting.com](mailto:Celia@CeliaJohnsonConsulting.com)
- (312) 659-6758

**Participation in upcoming discussions:** If you want to be included in the Policy Manual Subcommittee, Non-Energy Impacts Working Group, and/or Annual Template Report Working Group, please email the SAG Facilitator by COB on Wednesday, August 15.

### **Draft SAG Planning Documents**

- **Comments on 2018 SAG Plan (draft):** Due by COB on Tuesday, August 14. Send comments and proposed edits directly to the SAG Facilitator.
- **Comments on SAG Process Guidance document (draft):** Due by COB on Tuesday, August 14. Send comments and proposed edits directly to the SAG Facilitator.
  - After the comment period has passed, calendar invites will be sent for the rest of 2018.

### **Policy Manual Subcommittee**

- Proposed policies are due by COB on Friday, August 31 – please complete the [Proposed Policy Template](#).
  - Participants are encouraged not to propose substantive changes to policies already agreed upon in the existing Policy Manual, unless there is rationale to make the change.
- SAG Facilitator will follow-up with Policy Manual Subcommittee participants in August on the tracking list of policy issues. There is an existing list of policy issues that need to be addressed in Version 2.

### **SAG Website Re-Design**

If you have any web developers to suggest, please send to SAG Facilitator by COB on Wed. August 15.

### **ComEd EE Research & Development (R&D) Programs**

SAG Facilitator will schedule a presentation on ComEd's baseline study in 2019.

### **ComEd Quarterly/Annual Report-Out**

SAG Facilitator to follow-up with MEEA and ComEd on LED street lighting; this may be scheduled at SAG for future discussion.

### **Feedback on Future Utility Quarterly Reports to SAG**

- Quarterly report-outs will be combined into two presentations per year, to allow time for more topics to be presented at SAG.
- Utilities will be asked to focus on a program/initiative for each twice-yearly quarterly report-out.
- A link to download utility quarterly reports will be circulated to SAG for quarters when utilities are not presenting.

### **Feedback on Incorporating Innovative Topics at SAG**

- SAG Facilitator will prepare/circulate a template for innovative idea requests.
- Please contact the SAG Facilitator with any innovative idea suggestions.
- SAG Facilitator will follow-up with VEIC (IL-TRM Administrator) on a parallel process for new measure ideas to be submitted for the next version of the IL-TRM (Version 8.0), which will kick-off in spring 2019.