

Illinois Energy Efficiency Stakeholder Advisory Group

2020 SAG Portfolio Planning Process Proposed Energy Efficiency Ideas Template

Due Date: By 5:00 pm (CST) on Monday, April 27, 2020

Purpose: The [SAG Portfolio Planning Process](#) is an opportunity for SAG participants to understand current energy efficiency (EE) portfolios and provide feedback to Illinois utilities (Ameren Illinois, ComEd, Nicor Gas, Peoples Gas & North Shore Gas) as they develop their 2022-2025 EE Plans. The objective of the SAG Portfolio Planning Process is to reach consensus on EE Portfolio Plans prior to utilities filing plans for approval with the Illinois Commerce Commission on or before March 1, 2021.

SAG participants are invited to submit:

1. Feedback on current portfolios, focused on suggested changes for the 2022-2025 EE Plans;
2. Stakeholder ideas/approaches for utility consideration, such as program approaches or new measures that have been successfully implemented in other jurisdictions; and
3. Innovative ideas that could be researched during the next EE Plan cycle by utilities, evaluators, SAG, or another advisory group (IL-TRM Technical Advisory Committee; Income Qualified EE Advisory Committee).

How to Submit an Energy Efficiency Idea:

- SAG participants are encouraged to make a good faith effort to fill out as much information as possible in this template by the due date. Templates submitted after the April 27th deadline may not be considered due to time constraints.
- If you need help filling out the Energy Efficiency Idea Template or researching required information, contact the SAG Facilitator for assistance: Celia Johnson (Celia@CeliaJohnsonConsulting.com).
- Ideas will be reviewed by a small group Review Committee, organized by the SAG Facilitator. The SAG Facilitator may follow-up and request additional information after ideas are submitted.
- SAG participants that submit an idea may be invited to present their idea at the May 12-13 SAG meetings. Utilities will respond to feedback and ideas during the June 16-17 SAG Meetings.
- Please email your idea, with any supplemental materials, to the SAG Facilitator via the email above. Questions may be directed to the SAG Facilitator by email (Celia@CeliaJohnsonConsulting.com) or by phone: (312) 659-6758.

Submitter Contact Information

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Energy Efficiency Idea Questions

Please check the boxes below to identify 1) the type of idea; 2) which Illinois utility or utilities will be impacted by the idea; and 3) which EE sector the idea impacts.

Check	Type of Energy Efficiency Idea
<input type="checkbox"/>	New Measure or New Program Idea
<input checked="" type="checkbox"/>	Proposed Program Approach
<input type="checkbox"/>	Innovative Idea

Check	Illinois Utility Impacted by Energy Efficiency Idea
<input type="checkbox"/>	Ameren Illinois
<input type="checkbox"/>	ComEd
<input type="checkbox"/>	Nicor Gas
<input type="checkbox"/>	Peoples Gas & North Shore Gas
<input checked="" type="checkbox"/>	All Illinois Utilities

Check	Energy Efficiency Sector Targeted by Energy Efficiency Idea
<input type="checkbox"/>	Residential Customers – Single Family (non-income qualified/income eligible)
<input checked="" type="checkbox"/>	Residential Customers – Multifamily (non-income qualified/income eligible)
<input type="checkbox"/>	Residential Customers – Single Family Income Qualified/Income Eligible
<input checked="" type="checkbox"/>	Residential Customers – Multifamily Income Qualified/Income Eligible
<input checked="" type="checkbox"/>	Small Business Customers (commercial & industrial sector)
<input checked="" type="checkbox"/>	Medium/Large Business Customers (commercial & industrial sector)
<input type="checkbox"/>	Other (research & development, emerging technologies, market transformation)

Additional Questions

1. **Description of Idea:** Describe the proposed idea, including the purpose of the suggested idea and rationale. Describe whether this is an idea that could be implemented in an existing EE program, or whether the idea involves establishing a new measure or program. Please indicate whether additional research may be required before implementation.

Questions to consider: What issue will this proposed change resolve? Will the proposed change increase participation and result in increased energy savings? Will this reduce costs? Will this increase customer satisfaction? Will this help achieve statutory goals? Will this help increase program penetration?

Warming and cooling centers across the state of Illinois are expected to provide reliable public health emergency services to the general public. The proposed idea is for the utilities to consider offering a custom incentive for HVAC upgrades for facilities designated as warming or cooling centers by the state, county or municipality, and senior centers and living assistance communities that are designated as such.

The goal of this program approach is to ensure that warming and cooling centers have HVAC systems that meet industry-recognized retrofit compliance requirements, so they reliably and efficiently function during public health emergencies.

The objective is to provide HVAC upgrades or replacements at the highest efficiency possible for warming and cooling centers. Warming and cooling centers may have dual purposes, such as libraries. Considering the current pandemic, it is expected that more of the elderly, children, unemployed, those who have chronic medical conditions, and homeless people may be looking for relief during extreme weather events in public spaces designated as warming and cooling centers. This use will increase even its peak usage during extreme weather events.

This idea can be implemented through the existing custom incentive program offering and can increase the penetration of the HVAC measures in locations where cost barriers may impede equipment purchase and installation of HVAC measures. Upgraded HVAC equipment can lessen the risk of failure during an emergency. With better equipment and management systems, customers may see savings year over year. Customer satisfaction may also increase based on customer service, increased comfort and reliability. Additional research may be required prior to program design.

2. **Implementation:** How will this idea be delivered to the target market? Describe marketing strategies used to reach the target market and minimize market confusion.
 - Identify facilities designated as cooling and warming centers at the state, county and local levels across Illinois
 - Craft language for recruiting buildings
 - Emphasize public safety/health implications with factsheet, rooted in type of impacts in losing a cooling and warming center when it goes offline
 - This is especially the case in less dense communities where there aren't many additional options
 - Share widely with OSPs, ICs and contractors to use in their marketing language to customers
3. **Background:** Describe where the idea originated from, including whether this idea has been successfully implemented in other jurisdictions. Provide specific background information that will help utilities and SAG participants understand the proposed idea.

Questions to consider: In what jurisdiction has this idea been successfully implemented? Do you have information on eligible customers, participation achieved, and/or savings achieved? Do you have access to reports describing the successful idea / program approach?

Warming and cooling centers are not a new concept, but the heightened sense of awareness around public health and safety will increase the utilization of these facilities.

The idea stems from 1) The increased need for public preparedness and in response to shock events and 2) the increased need for public services and programs due to COVID-19.

There is not much available in regard to energy efficiency measures for warming and cooling centers because the majority of them have other primary purposes, but there is a report from the American Meteorological Society that evaluates warming and cooling centers in Maricopa County, AZ. (Source: <https://journals.ametsoc.org/doi/10.1175/WCAS-D-16-0033.1>). Though Arizona is climatologically different from Illinois, the evaluation of cost, capacity and operating hours is worth having in relations to IL warming and cooling centers.

The intent is to illustrate that understanding the load shape and operating factors about warming and cooling centers at the state or county level is useful for arming facilities managers that are part of these statewide emergency networks for improved energy management. Proactive measures will help Illinois communities be more resilient to future threats to public health and safety.

- Idea Impact:** Provide additional information on the customer segment that will be targeted with the program idea, including how and why this idea will have a positive impact on customers participating in Illinois EE programs.

Questions to consider: What level of impact will this idea have on current EE programs? How much additional market share do you estimate this change will impact?

The customer segment may include 1) public sector officials and administrators operating warming and cooling centers and 2) property managers that operate senior living facilities that need HVAC measures. This program will increase energy savings generated by an uptake in HVAC projects. There are 120 state facilities and 113 facilities in Chicago metro area designated as warming and cooling centers, and a varying number across counties and municipalities in Illinois. This program approach would allow these facilities to provide critical services during public health and safety emergencies and adequately serve those in need.

- Duration:** Is this idea intended to be offered for the duration of the 4-year EE Plan or as a pilot measure or program?

Full four years.

- Estimated Budget:** Provide the total estimated budget for each program year (2022 – 2025).

Marketing and Outreach: \$50,000 per year, for total of \$200,000

- Fact sheets
- Outreach 1-1, multiple touches, low and high touch engagement methods

Incentives: Assuming an average of \$10,000 per facility which may include expenses of either full replacement or tune-up, the approximate incentives portion of the budget is \$3M over four years.

Administration (estimated at 20% of total incentive budget): \$800,000 over 4 years.

Total estimated budget: \$4,000,000

7. **Estimated Participation:** Provide participation totals for each program year (i.e. number of measures installed, number of customer participants, etc.)

For four years, the program could offer HVAC measures to approximately 300 warming/cooling centers and senior living facilities.

- Approximate # of warming/cooling centers (customer participants); Of 600-700 estimated cooling centers
 - Year 1: 45
 - Year 2: 70
 - Year 3: 85
 - Year 4: 100
- Assumes 1-2 HVAC measures per site

Sources

If any sources will be useful to Illinois utilities in reviewing ideas, please either provide links within this template or send attachment(s) to the SAG Facilitator with the Energy Efficiency Idea submittal.