

ILLINOIS ENERGY EFFICIENCY STAKEHOLDER ADVISORY GROUP

Non-Energy Impacts Working Group
Draft NEI Research Plan for Ameren Illinois

Wednesday August 29, 2018
12:30 – 3:30 PM



Timeline for Non-Energy Impact Research and Results

Ann Collier, Opinion Dynamics



Ameren Illinois 2018 NEI Research Timeline

	Q3 2018			Q4 2018			Q1 2019			Q2 2019			Q3 2019		
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Review Literature															
NEI Map by AIC Initiative															
Develop NEI Evaluation Tools															
Data Collection: Income Qualified															
Data Collection: Public Housing															
Data Collection: Multifamily															
Jobs Impact Assessment															
NEI Analysis and Reporting															
SAG and Cross-Utility Coordination															

- Draft plan submitted – August 2018
- Agreement on evaluation plan and methods - September 2018
- Conduct program-specific NEI research - Concurrent with 2018 program evaluation
- Share draft program-specific NEI findings - Spring 2019
- Provide 2018 program job creation impacts - Fall 2019

Job Impacts

Zach Ross, Opinion Dynamics



Job Impact Quantification – Approach

- Opinion Dynamics portfolio evaluation plan outlines approach to quantifying job benefits from the AIC programs
 - We plan to assess job impacts a **portfolio level**
- We plan to use IMPLAN software to estimate job impacts
 - IMPLAN is a relatively cost-effective tool; Navigant is also planning to use it
 - AIC and ComEd evaluation teams plan to ensure that our models and methodology align to the degree possible
- Considerations for future years
 - If there is an desire from stakeholders and/or AIC to produce a more granular estimate of job impacts or economic impacts, we will consider developing a more detailed model

Job Impact Quantification – Deliverables & Timeline

- Deliverables

- We expect to deliver results that quantify the change in employment as a result of the 2018 AIC portfolio, including:
 - First-year job impacts (impacts from benefits realized in 2018)
 - Lifetime job impacts (impacts from benefits realized over the life of energy efficiency measures)

- Timeline

- The inputs required for jobs modeling make it most efficient to conduct this analysis simultaneously along with cost-effectiveness
- We expect to provide results in our annual cost-effectiveness report for the AIC portfolio – anticipated no later than September 30, 2019
- Note: we do not expect to use any results from our 2018 job impact analysis as an input to cost-effectiveness



Non-Energy Impacts Research Plan Overview

Ann Collier, Opinion Dynamics



Early Coordination: Ameren and ComEd Evaluation Teams

- Met to share draft plans; assess similarities in our plans and approaches
 - Gathering IL-specific data, in response to prior SAG process outcomes
 - Focusing on establishing program-level NEI values
 - Working towards the goal of aligning methodologies
- Proposed 2018/2019 research activities focusing on similar breadth of NEI categories

Participant	Societal	Utility
<ul style="list-style-type: none">■ Income Qualified programs (both)■ Multi-Family market-rate program (ODC)	<ul style="list-style-type: none">■ Job creation (both)	<ul style="list-style-type: none">■ Customer and utility metrics (both*)

* ODC expects to assess utility benefits in 2019 (not noted in draft 2018 plan).



NEI Research Approach for Ameren – Key Objectives

- Overarching Objective: Support the development of a statewide research approach to NEIs, balancing the needs for consistency across utilities with the unique context of different jurisdictions and portfolios
- Planned Evaluation Objectives:
 - Complete Ameren Illinois' first NEI assessments
 - Leverage planned 2018-2020 evaluation activities where possible
 - Complete a phased research effort
 - 2018: Develop a framework to organize NEI activities in this program cycle, and begin work
 - 2019-2021: Execute the framework to produce a complete NEI assessment

NEI Research Approach for Ameren – 2018 Research Questions

1. Which AIC 2018-2021 programs and initiatives are likely to produce NEIs? Which NEIs might result from each initiative? How do initiative activities produce these NEIs?
2. Which NEIs can be qualitatively assessed for programs in the AIC portfolio? Which can be quantified? To inform future cost-effectiveness testing, which NEIs could be monetized, and how?
3. How applicable are available NEI assessment methods and researched values to the AIC service territory, including those put forth by other Illinois evaluators? What adjustments may be needed to reflect the AIC context?
4. Which NEIs are most suitable for an initial quantitative assessment?
5. What types of survey data are needed to quantify key participant NEIs for AIC's residential programs? Do 2018 participants perceive changes in these outcomes, as applicable to the upgrades they have made or received?
6. What data and information are needed to support future NEI assessments?



NEI Research Approach for Ameren – Key Methods (2018)

Activity	Details
Review Literature	<ul style="list-style-type: none">▪ Assess existing NEI research▪ Identify studies useful in shaping AIC 2018-2021 evaluations▪ Note which NEIs appear to be quantifiable and monetizable
NEI Map by AIC Initiative	<ul style="list-style-type: none">▪ List NEIs expected to stem from each AIC initiative (leverages existing literature)
Develop NEI Evaluation Tools	<ul style="list-style-type: none">▪ Develop NEI questions for 2018 program evaluation surveys▪ As data allow, benchmark monetary values of these NEIs in AIC service territory▪ As data allow, combine inputs to quantify the key NEIs
SAG and Cross-Utility Coordination	<ul style="list-style-type: none">▪ Participate in the IL SAG NEI Working Group▪ Coordinate with other Illinois utilities' evaluators

Initial 2018 Program Areas

Per draft evaluation plan, focusing our 2018 activity on three programs:

- Income Qualified (Single- and Multi-Family)
 - Community Action Agency in-depth interviews
 - Participant surveys (single-family, multi-family)
- Multi-Family (Market-Rate)
 - Participating property manager survey
 - Survey of tenants living in upgraded properties
- Public Housing
 - Public Housing Authority representative in-depth interviews
 - Public housing property manager in-depth interviews

Comments Received on Draft Plan

- Thank you for the detailed feedback!
- We will respond to comments in detail, following this meeting
- At a high level, written comments centered on:
 - Leveraging existing work in Illinois and elsewhere
 - Coordinating statewide with SAG, other evaluation teams, and stakeholders
 - Prioritizing specific NEIs in 2018 research and beyond, such as
 - Job impacts, utility impacts (e.g., arrears), and others
 - Explicitly consider negative NEIs

