



# Peoples Gas and North Shore Gas 2021 Evaluation Plans

Presentation to the Illinois SAG

December 2, 2020



# Agenda

1. **Overview of 2021 Evaluation Activities and Timeline**
2. **Program-Level Research**
  - Impact
  - Process, Net-to-Gross (NTG)
  - Income Qualified
  - Pilots, Market Transformation
3. **Portfolio-Level Research**
4. **Budget Allocations**
5. **Coordination**
6. **Q&A**

**Purpose:** To provide SAG participants with an overview of the draft evaluation work plans for 2021

# Overview of Current and Planned Evaluation Activities

1. **Program Year 2019**: Finishing summary reporting and TRC
2. **Program Year 2020**: Working on impact verification, NTG, process, and other research that will be active through Q3 2021
  - ❑ Impact Evaluation: Q1-Q2 2021
  - ❑ Process/NTG: Q1-Q3 2021
  - ❑ TRM, Research, Reporting: Active now through Q3 2021
3. **Program Year 2021**: Drafting evaluation plans for work that will begin mid-year 2021 and wrap up in 2022
  - ❑ Impact Evaluation: Interim Reviews Q3 2021, End of Year Q1-Q2 2022
  - ❑ Process/NTG: Q4 2021 through Q2 2022
  - ❑ TRM, Research, Reporting: through Q3 2022
  - ❑ Four-Year Summary Reporting, Q3 2022

# 2020-21 Evaluation Plan Overview

Program Offering	Impact	NTG	Process	Notes on NTG and Process
<b>RESIDENTIAL</b>				
Home Energy Rebate	✓			
Home Energy Jumpstart	✓	✓	✓	2021 participants
Elementary Energy Education	✓			
Multi-Family Direct Install and Retrofits	✓			
Home Energy Reports	✓			
<b>Income Qualified</b>				
Single Family Retrofits	✓		✓	2020 IHWAP participants
Multi-Family Retrofits	✓		✓	2020 IHWAP Property Owners/Managers
Weatherization Kits	✓			
Public Housing	✓			
Affordable New Construction	✓			
<b>Business and Public Sector</b>				
Prescriptive Rebates	✓	✓	✓	2020 Public Sector participants
Custom Rebates	✓	✓	✓	2020 Public Sector participants
Gas Optimization	✓	✓	✓	2020 participants
Retro-Commissioning	✓	✓		2019/2020-21 participants
Strategic Energy Management	✓			
Non-Residential New Construction	✓	✓		2021 participants
Small Mid-Sized Direct Install and Retrofits	✓	✓	✓	2020 participants
<b>Pilots</b>	✓			

# 2020-21 EVALUATION ACTIVITIES AND TIMELINE – VERIFIED SAVINGS IMPACT

Activity	Task	2020		2021				2022			
		Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Interim Impact Reporting	TRM-Based Programs	2020				2021					
	Custom Projects	2020 Wave 1	2020 Wave 2			2021 Wave 1	2021 Wave 2				
Annual Impact Evaluation and Reporting	Program-Level Impacts			2020 End of Year				2021 End of Year			
	Portfolio Summary, TRC	2019				2020				2021	
Final Summary Reporting	Portfolio Summary, TRC									2018 - 2021	

## Annual Impact Reporting

- Joint Reports – Draft reports by March 15, final reports by April 30
- Non-Joint Reports – Best efforts to produce finals by April 30, complete in Q2
- Verify Adjustable Savings Goals updated accurately in December and January

## Interim Impact Reporting

- Begin interim analysis and reporting for TRM-based programs when data is ready – June/July to September
- Conduct custom project sampling and verification when there is a sufficient number of completed projects
  - Our preference is to sample projects prior to end of year
  - Core C&I and PS custom programs generally sampled Q3, Q4
  - Some programs sampled quarterly (RCx) or as a census when projects are complete (Small Bus custom, MF custom)

# 2020-21 Survey Research Plan - NTG

## 1. Programs with NTG on 2020 Participants

- Public Sector Custom and Prescriptive Rebates
- Small and Mid-Sized Businesses and Trade Allies
- Gas Optimization Participants (continue into 2021 if needed)
- RCx Participants and Study Providers (On-going from 2019)

## 2. Programs with NTG on 2021 Participants

- Home Energy Jumpstart
- Non-Residential New Construction Participants

# 2020-21 Survey Research Plan - Process

## 1. Process Research Conducted with NTG Survey

- Public Sector Custom and Prescriptive Rebates
- Small and Mid-Sized Businesses and Trade Allies
- Gas Optimization Participants (continue into 2021 if needed)
- Home Energy Jumpstart

## 2. Process Only

- Income Eligible – MF IHWAP Property Owner/Manager Survey
- Income Eligible – SF IHWAP Participant Survey

# 2020-21 EVALUATION ACTIVITIES AND TIMELINE – NTG AND PROCESS

Activity	Task	2020				2021				2022			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Process-Only, 2020 Participants	IHWAP SF Participants				Survey Design	Fielding	Process						
	IHWAP MF Property Owner/Mgrs.												
Net-to-Gross and Process, 2020 Participants	Public Sector							Report NTG					
	Small/Mid-Sized Business												
	Gas Optimization Participants												
	Retro-Commissioning (NTG-Only)												
NTG and Process, 2021 Participants	Joint Non-Res NC (NTG-Only)												
	Home Energy Jumpstart												

Net-to-Gross and Process	
	Survey Design
	Sample Prep and Fielding
	NTG Analysis and Reporting
	Process Analysis and Reporting

# Program-Level Research – Income Qualified

## 1. Completed in 2020 with 2019/2020 Participants

- Multi-Family Income Eligible Kits distribution: satisfaction and in-service rates
- IEMS Multi-Family Property Owner/Manager Survey

## 2. Impact Evaluation with 2020 and 2021 Participants

- TRM-Based Program Savings
- Custom Project Savings

## 3. Process Research with 2020 Participants, Occurring in Q1 2021

- Income Eligible – MF IHWAP Property Owner/Manager Survey
- Income Eligible – SF IHWAP Participant Survey

## 4. Other Research in 2021 and 2022

- Cooperating with ComEd survey that will attempt to estimate participant NEIs

# Program-Level Research – Pilots, Market Transformation

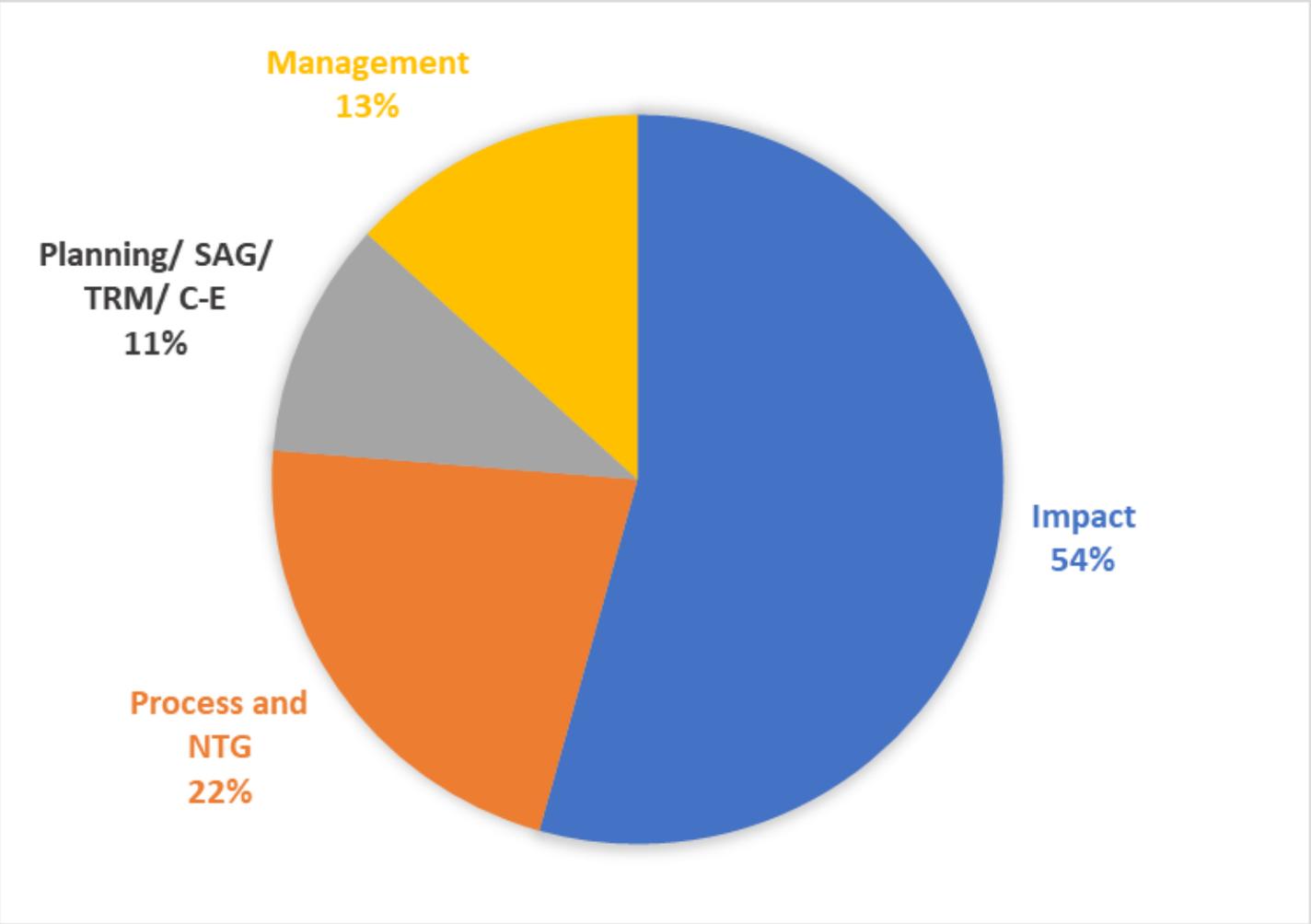
- 1. Evaluate pilot and market transformation efforts when proposed or launched if savings will be claimed**
- 2. Limited involvement in Market Transformation at this stage**
  - Participate in TRM Market Transformation framework development
  - Observe the initial planning stages of market transformation initiatives
- 3. In 2020 and 2021, Commercial Food Service impacts are evaluated under a resource acquisition framework**
- 4. Participant feedback on Virtual Delivery and Installation effort in Home Energy Jumpstart (2021 participants)**
- 5. Provide impact evaluation technical support to PGL and NSG on unique custom projects and TRM work-papers**

# Portfolio-Level Research

Activity	Status	2018	2019	2020	2021
<b>Residential and Income Eligible Research</b>					
Kits In-Service Rate and Satisfaction Survey	Completed		4Q	1Q-2Q	
Home Energy Jumpstart Virtual Delivery (with NTG and Process)	Planned				3Q-4Q
<b>Business and Public Sector Research</b>					
Steam Traps – Background Research on Viability of Impact Study	Completed	2Q-4Q	1Q		
Steam Traps – Support TRM Algorithm Update	Completed		4Q	2Q	
Non-Residential Pipe Insulation – Thermal Regain Factors	Completed	4Q	1Q-4Q	1Q-2Q	
Space Heating and Process Boiler Tune-ups – Average Efficiency Increase	Completed		4Q	1Q-2Q	
Assessment of Natural Gas Savings in Unique Custom Projects	Active			On Request	
<b>Other Research</b>					
TRM Working Group Participation and Technical Review	Active		On-going, primarily Q1-Q3		
Non-Energy Impacts (NEIs) Economic Impact	Completed		4Q	1Q-2Q	
Monetized NEI Values Estimation and Secondary Research	Active			1Q-4Q	

*Note: Program-level process survey research is not shown on this table*

# Budget Allocations (All Years)



# COORDINATION ACROSS UTILITIES

- 1. Guidehouse coordinates with the other utilities and their evaluation teams on an ongoing basis - this includes Ameren, ComEd, and Nicor Gas**
- 2. Coordination beyond specific programs occurs as follows**
  - SAG meetings on specific topics and issue management
  - Illinois-wide issues that may impact multiple utility programs
  - Illinois NTG Framework and Protocol Working Group
  - Illinois TRM Technical Advisory Committee
  - Coordination calls (monthly)
- 3. Gas/Electric Joint Program Evaluations (with ComEd evaluation team)**
  - Some evaluations are done jointly (Non-Res NC, RCx, EEE, Income Qualified)
  - Joint programs are evaluated separately in some cases
- 4. Support Coordination on Research Studies**
  - TRM measure research considered on a case-by-case basis

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