



# Nicor 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 Nicor Gas evaluation work plan 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 Q2 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 Q2 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 Efficiency Rebates	√			
Home Energy Savings	√		√	Virtual Delivery and ISRs
Residential New Construction	√	√	√	2021 participants
Energy Savings Kits	√	√	√	2020 participants, includes ISR research
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 participants
Public Housing	√			
Affordable New Construction	√			
<b>Business and Public Sector</b>				
BEER (Prescriptive Rebates)	√			
Custom Incentives	√	√	√	2020 participants
Joint Retro-Commissioning	√	√		2019/2020-21 participants
Nicor-Gas-Only Retro-Commissioning	√	√		2020-21 participants
Strategic Energy Management	√			
Non-Residential New Construction	√	√		2021 participants
Small Business Direct Install and Retrofits	√	√	√	2020 participants

# 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

- Energy Saving Kits
- Custom Incentive Program
- Small Businesses and Trade Allies
- RCx Participants and Study Providers (Nicor-only and joint w/ComEd, On-going from 2019)

## 2. Programs with NTG on 2021 Participants

- Residential New Construction Participants
- Non-Residential New Construction Participants

# 2020-21 Survey Research Plan - Process

## 1. Process Research Conducted with NTG Survey

- Energy Saving Kits (Water-Saving and Weatherization Measures)
  - Includes questions on measure in-service rates, for potential TRM updates
- Custom Incentive Program
- Small Business Program
- Residential New Construction

## 2. Process Only

- Income Qualified – MF IHWAP Property Owner/Manager Survey
- Income Qualified – 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	Energy Saving Kits							Report NTG					
	Custom Incentives												
	Small Business												
	Retro-Commissioning (NTG-Only)												
NTG and Process, 2021 Participants	Joint Non-Res NC (NTG-Only)												
	Residential New Construction												

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. Impact Evaluation with 2020 and 2021 Participants

- TRM-Based Program Savings
- Custom Project Savings

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

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

## 3. Other Research in 2021 and 2022

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

# Program-Level Research – Pilots, Market Transformation

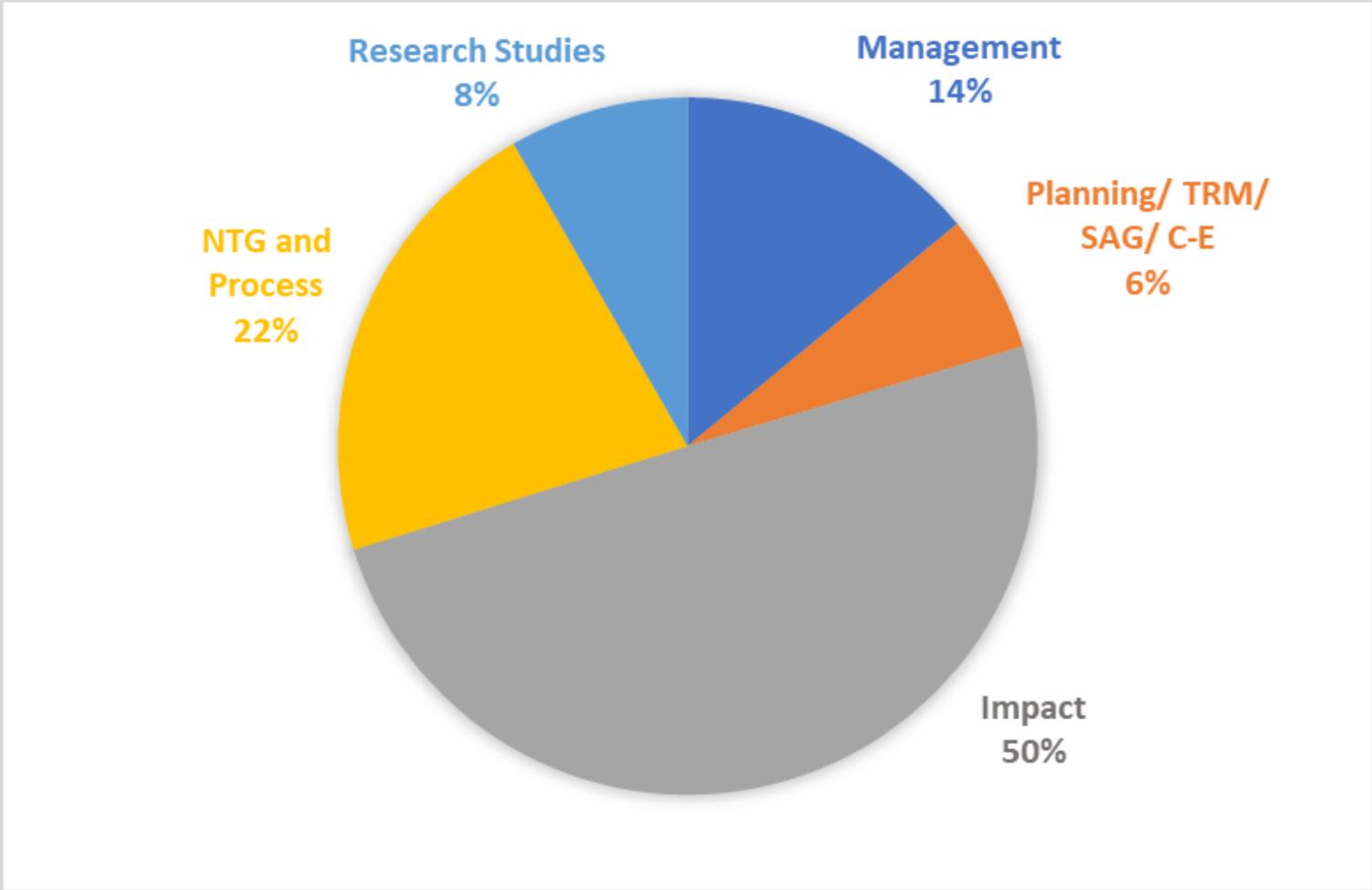
- 1. Evaluate pilot and market transformation efforts when proposed or launched if savings will be claimed**
- 2. Limited involvement in Market Transformation at this stage**
  - Participate in TRM Market Transformation framework development
  - Observe the initial planning stages of market transformation initiatives
- 3. In 2020 and 2021, impacts are evaluated under a resource acquisition framework**
  - Commercial Food Service
  - Building Operator Certification
- 4. Research results of Virtual Delivery and Installation pilot effort in Home Energy Savings**
- 5. Provide impact evaluation technical support on Nicor Gas Emerging Technology Program measures when these move from research to program implementation or TRM adoption**

# Portfolio-Level Research

Activity	Status	2018	2019	2020	2021
<b>Residential and Income Qualified Research</b>					
Residential Insulation and Air Sealing Billing Analysis and TRM Workpapers	Completed	1Q-3Q			
Emerging Tech Program Connected Savings RCT Pilot Impacts and Survey	Completed	1Q-4Q	1Q		
Residential New Construction – Updated Calibrated Simulations	Completed	4Q	1Q		
Kits In-Service Rate, NTG, and Satisfaction Survey	Active			4Q	1Q-3Q
Home Energy Savings Virtual Delivery and Installation	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 – Process Research Study	Completed	2Q-4Q	1Q-4Q		
Steam Traps – Support TRM Algorithm Update	Completed		4Q	2Q	
Custom Gas Measure EULs	Active		2Q-4Q	Ongoing	Ongoing
Small Business Programmable Thermostats – Billing Analysis of Past Participants	Active			2Q-4Q	1Q
<b>Other Research</b>					
Non-Energy Impacts (NEIs) Economic Impact	Completed		4Q	1Q-3Q	
Monetized NEI Values Estimation and Secondary Research	Completed			1Q-4Q	
Non-Energy Impacts (NEIs) Cooperate in ComEd Primary Research	Active			4Q	1Q-4Q

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

# Budget Allocations (All Years)



Diverse Suppliers 12%

# COORDINATION ACROSS UTILITIES

- 1. Guidehouse coordinates with the other utilities and their evaluation teams on an ongoing basis - this includes Ameren, ComEd, Peoples Gas and North Shore 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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