



# 2022-2025 Evaluation Plan

**Nicor Gas**

April 13, 2022

# Agenda

- Introduction to 2022-2025 evaluation activities and timeline
  - Key evaluation activities in 2022
- Program-Level Research
  - Impact
  - Net-to-Gross (NTG)
  - Process
  - Income Eligible / Income Qualified
  - Market Transformation
- Portfolio-Level Research
- Budget Allocation
- Coordination
- Q&A + feedback

# Introduction

**2022 to 2025 Portfolio Evaluation**

# The Nicor Gas 2022 Portfolio

Sector / Category	2022	
	Program Budget	Net Therms
Income Eligible	28%	10%
Residential	26%	38%
Small Business	4%	8%
C&I and Public Sector	20%	44%
Portfolio Functions	21%	0%
<b>Portfolio Total</b>	<b>\$45,705,000</b>	<b>14,127,406</b>

# Introduction to 2022-25 Evaluation

## Program-Level Research

### Gross Impact Research:

- Conducted annually, all programs

### Net-to-Gross (NTG) Research:

- Conducted once per cycle for most programs

### Process Research:

- Conducted based on program need, cost, and joint opportunities

### Market Transformation (MT):

- Advise statewide efforts
- Research and verification of implemented initiatives

### Income Eligible:

- Explore joint research opportunities targeting program outreach and delivery
- Conduct research

## Portfolio-Level Research and Activities

### TRM Update Support

- TRM v11, Q1 through Q3
- Prioritize support for future updates
- Refine NTG and MT protocols

### Non-Energy Impacts (NEIs):

- Economic impacts model development (joint)
- Joint research on Societal, Utility, and Participant NEIs

### Annual Reporting:

- Verified savings and TRC
- Economic impacts

### Collaboration:

- With ComEd on joint programs and research
- Statewide

## Key Activities for 2022

### Program-Level:

- Gross impact on all 2022 programs, starting mid-year, custom sampling Q3/Q4, End-of Year in 2023 Q1/Q2
- NTG for selected programs starting Q3
- Research projects for Non-Res New Construction NTG
- Sector Non-Participant Spillover
- Income Eligible survey ongoing

### Portfolio-Level/Statewide:

- Finish 2021 and 2018-21 reporting
- 2022-25 Planning
- TRM v11 update participation
- Other research is under consideration and could begin 2022 Q2, Q3, or Q4

# Program-Level Research

**Summary of 2022-2025 evaluation activities  
and timelines**

# Overview of 2022-25 Evaluation

## Program-Level Research

### Gross Impact Evaluation Research

**Timing:**

- End-of-Year on all programs
- Larger programs and new measures receive mid-year review
- Parallel path / early review for large or complex custom projects

**Methodology:**

- TRM-based measures verification
- Custom projects M&V protocols
- Consumption data regression

**Approach:**

- TRM measures: Census review
- Custom Projects: File review on a sample, site M&V for a subset
- Consumption Data Regression: single project or population

### NTG Research

**Timing:**

- Once per cycle for most programs
- Change in program or market
- Prioritize need

**Methodology:**

- Apply statewide protocol in TRM

**Approach:**

- On-line survey and/or telephone
- Free-Ridership survey close to participation, rolling interviews
- Spillover survey 12+ months after participation to allow for actions

**Target:**

- Participating Customers
- Trade Allies
- Non-Participants

### Process and Other Research

**Timing:**

- Conduct based on program need, cost, and joint opportunities
- Can combine with NTG surveys

**Methodology:**

- Evaluation best practices

**Approach:**

- Review program materials
- Often use survey research, on-line and/or telephone
- Interviews and focus groups
- Benchmarking
- Secondary research

**Target:**

- Program managers, contractors
- Customers and Trade Allies
- Non-Participants

# Impact Evaluation Timeline, 2022 Programs

Activity	Target	2022				2023			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Interim Impact Review and Reporting	TRM-Based Measures			Interim Data					
	Sampled Custom Projects			Wave 1	Wave 2				
Annual Impact Evaluation and Reporting	Program-Level Impacts					2022 End of Year			
	Verified Portfolio Cost and Savings Results							2022	
Parallel Path Review	Large or Complex Projects in Pre-App Stage	Reviews occur when program brings project to evaluators							



# Impact Evaluation

Program / Market Offering	TRM-Based Verification	Custom M&V	Custom Project Parallel Path Review	Interim Review Type
<b>Income Eligible Programs</b>				
<b>Single Family</b>				
IHWAP	√	--	--	TRM
Contractor Channel and Healthy Home	√	--	--	TRM
<b>Multi-Family Program</b>				
IHWAP	√	√	If Requested	TRM
Contractor Channel and Healthy Home	√	√	If Requested	TRM
<b>Public Housing Authority</b>	√	√	If Requested	--
<b>Affordable Housing NC</b>	--	√	If Requested	--
<b>Energy Saving Kits</b>	√	--	--	TRM
<b>Residential Programs</b>				
<b>Energy Education &amp; Outreach</b>				
Energy Education Kits	√	--	--	TRM
Energy-Saving Kits	√	--	--	TRM
Home Energy Reports	--	RCT Billing	--	--
<b>Home Energy Savings</b>				
Assessments and DI	√	--	--	TRM
Advanced Thermostats	√	--	--	TRM
Weatherization Rebates	√	--	--	TRM
<b>Home Energy Efficiency Rebates</b>				
Space & Water Heating Rebates	√	--	--	TRM
Advanced Thermostats	√	--	--	TRM
<b>Res. New Construction</b>	√	--	--	TRM
<b>Multi-Family Program</b>				
Assessments and DI	√	--	--	TRM
Rebates: Prescriptive	√	--	--	TRM
Rebates: Custom	--	√	If Requested	Q3, Q4 Samples
Central Plant Optimization	√	--	--	TRM

Program / Market Offering	TRM-Based Verification	Custom M&V	Custom Project Parallel Path Review	Interim Review Type
<b>Business and Public Sector Programs</b>				
<b>Business Energy Efficiency Rebates</b>				
Assessment and DI	√	--	--	TRM
Rebates	√	--	--	TRM
Business Optimization	√	--	--	TRM
Commercial Food Service	√	--	--	TRM
<b>Coordinated New Construction</b>	--	√	--	Q3 Sample
<b>Business Custom</b>				
Custom Rebates	--	√	If Requested	Q3, Q4 Samples
Combined Heat and Power	--	√	If Requested	--
Coordinated Retro-Commissioning	--	√	--	Quarterly Sample
Stand-Alone Retro-Commissioning	--	√	If Requested	Q3, Q4 Samples
<b>Small Business</b>				
Assessments and DI	√	--	--	TRM
Rebates: Prescriptive	√	--	--	TRM
Rebates: Custom	--	√	--	Q3, Q4 Samples
<b>Strategic Energy Management</b>	--	√	If Requested	--

# NTG Evaluation Timeline – Wave 1

Activity	Timing	2022						2023												2024	
		July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	
Interview program staff, design survey instruments	July to September 30	█	█	█																	
Prepare survey for fielding and launch. Field data collection lasts 4 weeks up to 5 to 6 months when rolling interviews are employed	October 1 to April 30				█	█	█	█	█	█	█										
Evaluators analyze data and report NTG results	May 1 to July 15											█	█	█							
Finalize all NTG research memos	July 15 to August 31												█	█							
Evaluators present NTG recommendations to SAG and Utilities, best efforts to reach consensus	September 1 to September 30														█						
Final consensus NTG ratios deemed	October 1																			★	
New consensus NTG ratios in effect	January 1																				★

# NTG Evaluation Draft Timeline

Program (s)	Target/Measures	Research	2022				2023				2024				2025				2026	
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	
Non-Residential Sector	All Measures	NPSO	Blue	Orange	Yellow		EFF													
Home Energy Savings	Direct Install	FR, PSO			Blue	Orange	Orange	Yellow	Yellow		EFF									
Home Energy Savings	Weatherization	FR, PSO			Blue	Orange	Orange	Yellow	Yellow		EFF									
Residential	Advanced Thermostats	FR, PSO			Blue	Orange	Orange	Yellow	Yellow		EFF									
Comm. Food Service	Rebates	FR, PSO			Blue	Orange	Orange	Yellow	Yellow		EFF									
Coordinated NRNC	All C&I and Public Sector	FR, PSO			Blue	Orange	Orange	Yellow	Yellow		EFF									
Res New Construction	All Measures	FR, PSO			Blue	Orange	Orange	Yellow	Yellow		EFF									
Residential Sector	All Measures	NPSO					Blue	Orange	Yellow		EFF									
Multi-Family	All Measures and Offerings	FR, PSO						Blue	Orange	Orange	Yellow	Yellow		EFF						
BEER	All Measures	FR, PSO						Blue	Orange	Orange	Yellow	Yellow		EFF						
Strategic Energy Mgt	All C&I and Public Sector	FR, PSO						Blue	Orange	Orange	Yellow	Yellow		EFF						
Coordinated RCx	All C&I and Public Sector	FR, PSO						Blue	Orange	Orange	Yellow	Yellow		EFF						
Nicor Gas RCx	All C&I and Public Sector	FR, PSO						Blue	Orange	Orange	Yellow	Yellow		EFF						
Home Energy Rebates	HVAC, Water Htg	FR, PSO										Blue	Orange	Orange	Yellow	Yellow			EFF	
Energy Saving Kits	All Measures	FR, PSO											Blue	Orange	Orange	Yellow	Yellow		EFF	
Small Business	Rebates	FR, PSO												Blue	Orange	Orange	Yellow	Yellow	EFF	
Coordinated NRNC	All C&I and Public Sector	FR, PSO												Blue	Orange	Orange	Yellow	Yellow		
Custom	All Measures	FR, PSO													Blue	Orange	Orange	Yellow	Yellow	EFF
<b>Net-to-Gross Key</b> FR= Free-rideship PSO = Participant Spillover NPSO=Non-Participant Spillover		Survey Design/Sample Prep	Blue																	
		Fielding	Orange																	
		NTG Analysis and Reporting	Yellow																	
		Year NTG Effective	EFF																	

# Market Transformation

## 1. The Evaluator's role in MT depends on the maturity of the initiative and the Company's involvement:

- **Company and stakeholders are engaged in MT concept and strategy development of an initiative**
  - Evaluators provide “as needed” support to the effort
  - Evaluators advise on key elements of the MT savings protocol of promising initiatives
    - Program Theory and Logic Model, Natural Market Baseline, Savings per Unit / Gross Market Potential, Market Progress Indicators, Data Collection, Attribution and Allocation
- **Company implements an initiative and expects to claim savings**
  - Evaluators conduct research and verification to estimate savings attributable to the Company following IL TRM Attachment C

## 2. Nicor Gas is engaged in

- Advanced (thin triple-pane) Windows
- Energy Code Advancement
- High Efficiency Rooftop Units
- Secondary Glazing Systems
- Gas Heat Pump Water Heater
- Gas Heat Pump Combination Units

## 3. MT is coordinated with Peoples & North Shore Gas, ComEd, Ameren Illinois, Third-Parties, SAG

- Other initiatives are being developed, led by other parties
- Coordination is within Illinois and Nationally
- Evaluation for Nicor Gas will be coordinated with other evaluation teams

# Portfolio-Level Topics

**Research, Budget, Coordination**

# Overview of 2022-25 Evaluation

## Portfolio-Level Topics

### TRM Support and Research

#### TRM Update Support

- TRM v11, Q1 through Q3 2022
- Submit / review workpapers
- Participate in subcommittees
- Participate in late October “Evaluation Priorities” discussion led by TRM Administrator
- Refine NTG and MT protocols via Working Groups

#### TRM Research:

- Prioritize by need, impact, and cost
- Several evaluation priorities identified in October 2021 are being considered: modest scope and budget, meaningful impact

### Other Research Planned or Under Consideration

#### Opportunities to conduct joint research with ComEd, Ameren, Peoples & North Shore Gas

- Income Eligible: Explore joint research opportunities targeting program outreach and delivery
- NEIs: Economic impacts model development.
- NEIs: Research on Societal, Utility, and Participant NEIs
- Non-Participant Spillover: Residential, Non-Residential
- Program-Specific Topics

**If non-joint, ensure that natural gas related topics are considered if appropriate**

### Annual Reporting

#### Annual Reporting:

- Verified savings and program costs
- Water savings, CO<sub>2</sub> reduction
- High Impact Measures for TRM
- Cost-effectiveness TRC / PACT
- Joint-program TRC
- Economic impacts

#### Timing:

- Q3 each year, when final data is available
- Q2 / Q3 2026 four-year summary

#### Ad Hoc Reporting

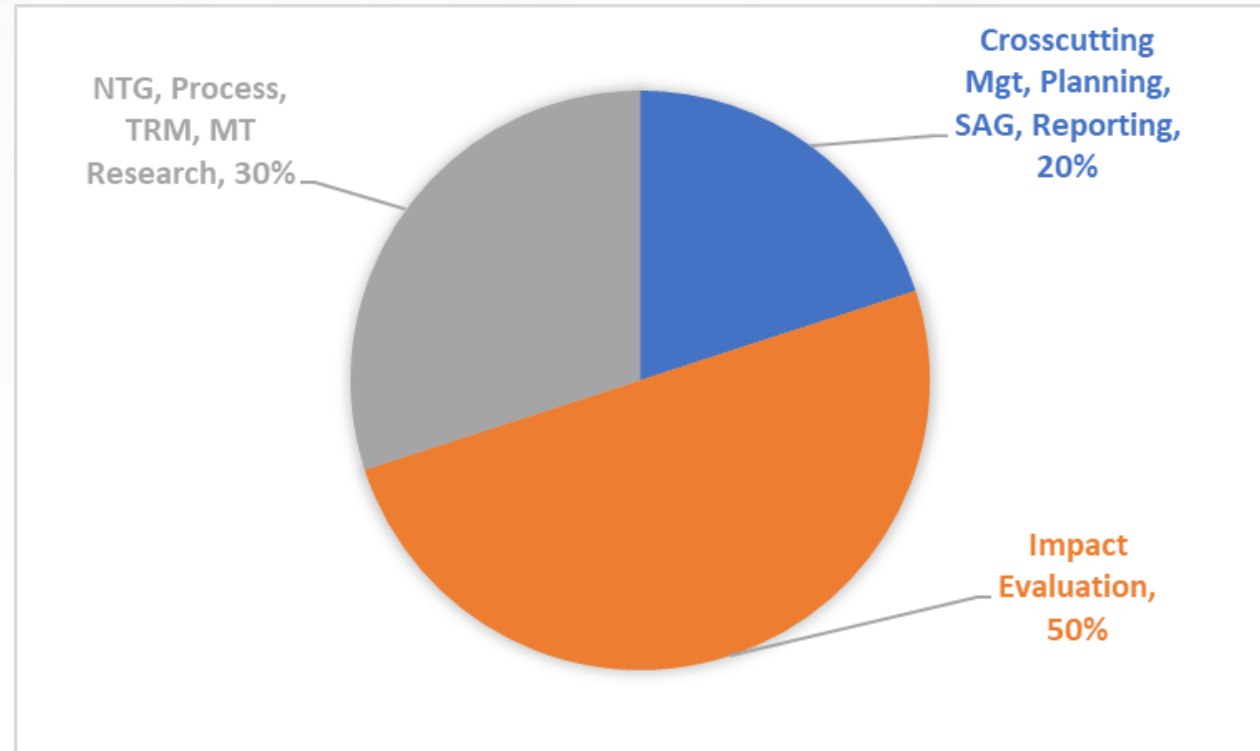
# Evaluation Budget

## 1. Overall Budget is split between:

- Impact Evaluation
- Crosscutting Activities (Management, Planning, and Reporting)
- Research (NTG, Process, MT, Other)

## 2. Prioritizing Resources

- Meet requirements for savings verification and reporting
- ICC Orders and SAG Input
- Program contribution to portfolio net savings
- Program/Implementer needs and effectiveness
- Opportunities to leverage joint research with other utilities



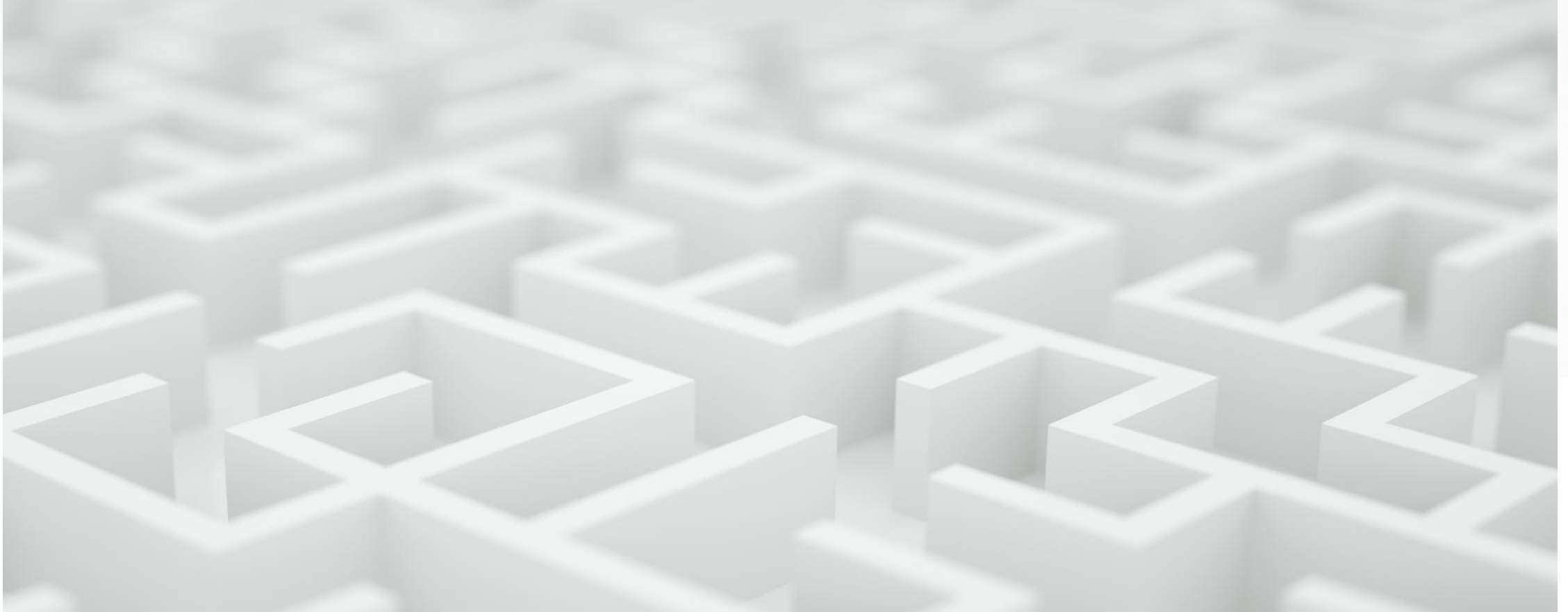
**Evaluation Budget – 4 Year: \$5,484,602**  
Per Program Year: \$1,371,150

# Evaluation Coordination

1. **Guidehouse coordinates with the other utilities and their evaluation teams on an ongoing basis - this includes Ameren, ComEd, and Peoples & North Shore Gas**
2. **Gas/Electric Joint Program Evaluations**
  - Some jointly delivered programs are evaluated by a single-team, producing a single report
  - Joint or coordinated programs and measures are evaluated separately in some cases
  - Evaluators calculate and report joint TRCs
3. **Coordination on Process and TRM Research Studies**
  - TRM measure research considered on a case-by-case basis
  - Process research is done jointly when it is beneficial to do so
  - Statewide research
4. **Coordination beyond specific programs occurs as follows**
  - SAG meetings, Illinois-wide issues
  - Illinois NTG Framework and Protocol Working Group
  - Illinois TRM Technical Advisory Committee
  - Evaluator coordination calls (monthly)



# Questions, Feedback



# Your Guides

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