# Peoples Gas (PGL) and North Shore Gas (NSG)

## History of NTG Values for GPY1 through 2018 (GPY7)

# Updated to include NTG Values for 2019

# October 1, 2018

# Updated with Faucet Aerator and Showerhead Correction—April 12, 2019

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	Pocidential Program Home Energy Jumpetart
GPY1	Residential Program Home Energy Jumpstart
Grii	Peoples Gas NTG: 0.86  Free ridership Net estimated congretely from NTC
	Free ridership Not estimated separately from NTG  Spillover Not estimated separately from NTG
	Water Efficient Showerheads NTG 0.93
	Water Efficient Kitchen Aerators NTG 0.94
	Water Efficient Bath Aerators NTG 0.94
	Pipe Wrap NTG 0.67
	<b>Method and Source</b> : Program launched in Peoples Gas in the fourth quarter of GPY1 and
	experienced limited participation for the year. GPY1 NTG was based on evaluation review
	and recommended acceptance of program administrator ex ante NTG assumptions by
	measure, weighted by program-level measure savings to a single NTG ratio for the program.
	incasure, weighted by program-level incasure savings to a single 1v10 ratio for the program.
GPY2	Peoples Gas: NTG 0.96; Free ridership 0.08; Participant Spillover: 0.04
	North Shore Gas: NTG 0.96; Free ridership 0.08; Participant Spillover: 0.04
	Method and Source: Evaluation research consisting of GPY2 participating customer self-
	reports. In GPY2, the Peoples Gas program distributed measures to 4,004 participants, and
	the North Shore Gas program distributed measures to 348 participants. A total of 80
	participants were sampled from the combined population (71 from Peoples Gas, 9 from
	North Shore Gas).
GPY3	Peoples Gas: NTG 0.96; Free ridership 0.08; Participant Spillover: 0.04
GI 15	North Shore Gas: NTG 0.96; Free ridership 0.08; Participant Spillover: 0.04
	Method and Source: Deemed by SAG consensus from GPY2 evaluation research.
	Wethou and Source. Declined by 5710 consensus from Of 12 evaluation research.
GPY4	Peoples Gas: NTG 0.96; Free ridership 0.08; Participant Spillover: 0.04
	North Shore Gas: NTG 0.96; Free ridership 0.08; Participant Spillover: 0.04
	Method and Source: Deemed by SAG consensus. Values from GPY2 evaluation research.
GPY5	Peoples Gas and North Shore Gas:
	Deemed NTG 0.96; Free ridership 0.08; Participant Spillover: 0.04
	Method and Source: Values from GPY2 evaluation research.
GPY6	Peoples Gas and North Shore Gas:
	Deemed NTG 0.96; Free ridership 0.08; Participant Spillover: 0.04
	Method and Source: Values from GPY2 evaluation research.
2018	All Measures Except Faucet Aerators:
(GPY7)	NTG: 0.96; Free Ridership: 0.08; Participant Spillover: 0.04
	Faucet Aerators:
	NTG: 1.04; Free Ridership: 0.00; Participant Spillover: 0.04
	<b>Method</b> : For measures except faucet aerators: No new research; retained GPY6 final values;
	FR & PSO (IL EM&V GPY2); NPSO (no value).
	For faucet aerators: TRM version 6.0 specifies that the free ridership for faucet aerators be set
	at zero when estimating gross savings using the TRM specified baseline average water flow
	rate.
2019	HEJ - Smart Thermostats; NTG=NA
	The savings for natural gas heating provided in Illinois TRM Version 7.0, Section 5.3.16 were
	derived from a billing regression analysis with an experimental design that does not require
	further net savings adjustment.

# **Residential Program Home Energy Jumpstart**

#### HEJ - Faucet Aerators and Showerheads NTG=1.02

FR=0: TRM version 7.0 specifies that the free ridership for faucet aerators and showerheads be set at zero when estimating gross savings using the TRM specified baseline average water flow rate. PSO=0.02: 2018 Survey of 110 GPY6 participants. Memo: Net-to-Gross Research Results from GPY6 for the Peoples Gas and North Shore Gas Home Energy Jumpstart Program, Navigant, 8/23/18, second revision 9/19/18.

#### HEJ - Programmable Thermostat NTG=0.88

FR=0.14 and PSO=0.02: 2018 Survey of 110 GPY6 participants. Memo: Net-to-Gross Research Results from GPY6 for the Peoples Gas and North Shore Gas Home Energy Jumpstart Program, Navigant, 8/23/18, second revision 9/19/18. FR: 28 responses for this measure.

#### HEJ - Re-Programming Thermostat NTG=0.80

FR=0.22 and PSO=0.02: 2018 Survey of 110 GPY6 participants. Memo: Net-to-Gross Research Results from GPY6 for the Peoples Gas and North Shore Gas Home Energy Jumpstart Program, Navigant, 8/23/18, second revision 9/19/18. FR: 21 responses for this measure. ICC Staff suggestion with SAG consensus for Nicor Gas was combining the Nicor Gas (12 responses) and PGL & NSG (21 responses) survey question results for the re-programming t-stat value (combined 33 responses average FR=0.34), and then take an average of those results and the Nicor Gas water heater temp setback results (FR = 0.09) (SAG consensus). Final FR=0.22. Navigant recommended the same value for PGL & NSG.

#### HEJ - Boiler Pipe Insulation, DHW Pipe Insulation NTG=0.88

FR=0.14 and PSO=0.02: 2018 Survey of 110 GPY6 participants. Memo: Net-to-Gross Research Results from GPY6 for the Peoples Gas and North Shore Gas Home Energy Jumpstart Program, Navigant, 8/23/18, second revision 9/19/18. Boiler pipe insulation and pipe insulation domestic hot water (DHW) outlet – had low participation in GPY6 (about 3 percent of overall program savings combined) and were not represented in the GPY6 HEJ survey research. Navigant recommends a free ridership of 0.14 for those measures, matching the findings for programmable thermostats, because they are equipment measures whereas re-programming thermostats is a service measure.

	Residential Program Home Energy Rebate
GPY1	Peoples Gas: NTG 0.72; Free ridership 0.28; Participant Spillover 0.00 North Shore Gas: NTG 0.67; Free ridership 0.33; Participant Spillover 0.00 Method and Source: Evaluation research consisting of GPY1 participating customer self-reports and participating trade ally interviews. For Peoples Gas: 68 NTG interviews completed from a population of 1,363 participants. For North Shore Gas: 71 NTG interviews completed from a population of 991 participants. No quantifiable participant spillover was found from customer self-reports. Significant qualitative evidence of spillover was found from 30 trade ally interviews, but was not quantified.
GPY2	Peoples Gas: NTG 0.82; Deemed Free ridership 0.28; Non-Participant Spillover: 0.10 North Shore Gas: NTG 0.80; Deemed Free ridership 0.33; Non-Participant Spillover: 0.13 Method and Source: Spillover results for GPY2 based on evaluation research to estimate spillover from non-participating trade allies. For the spillover calculation, 59 interviews were conducted sampled from two groups of non-participating trade allies: 1) Trade allies that dropped out of the program (so-called "drop out" trade allies): those who had participated in GPY1, but did not participate in GPY2; and 2) True non-participating trade allies - those who reported that they were aware of the program, but had never participated. Free-ridership for GPY2 was deemed from GPY1 evaluation research based on SAG consensus. Evaluation did not research free-ridership in GPY2.
GPY3	Peoples Gas: NTG 0.82; Deemed Free ridership 0.28; Non-Participant Spillover: 0.10 North Shore Gas: NTG 0.80; Deemed Free ridership 0.33; Non-Participant Spillover: 0.13 Method and Source: Deemed by SAG consensus from GPY1 and GPY2 evaluation research.
GPY4	Peoples Gas: NTG 0.82; Deemed Free ridership 0.28; Non-Participant Spillover: 0.10 North Shore Gas: NTG 0.80; Deemed Free ridership 0.33; Non-Participant Spillover: 0.13 Method and Source: Deemed by SAG consensus. Values from GPY1 and GPY2 evaluation research.
GPY5	Peoples Gas and North Shore Gas: NTG 0.81; Free ridership 0.30; Participant Spillover 0.00; Non-Participant Spillover: 0.11 Method and Source: A single value was developed for both PGL and NSG programs based on weighting GPY4 values 60% PGL to 40% NSG. Weighting based on GPY5 planning values.
GPY6	Peoples Gas and North Shore Gas: NTG 0.81; Free ridership 0.30; Participant Spillover 0.00; Non-Participant Spillover: 0.11 Method and Source: A single value was developed for both PGL and NSG programs based on weighting GPY4 values 60% PGL to 40% NSG, no changes for GPY6.

2018 (GPY7)

#### For all program measures except Duct Sealing, Air Sealing, and Insulation

**NTG:** 0.64

Free ridership: 0.49

**Method**: Value is from GPY5 evaluation on-line survey completed with 119 GPY5 HER Program participants. The FR result is based on applying the TRM v6.0 NTG methodologies. Overall program FR value uses GPY5 HER Program verified gross savings to weight measure category free ridership: AFUE 95+ (FR=0.48, weight=75%); programmable thermostats (FR=0.64, weight=11%); other measures in survey (FR is not based on enough responses to report statistically significant results at the measure level, weight = 14%). Program measures that were not researched were assigned the overall FR average. This NTG value is not recommended for air sealing, insulation, or duct sealing.

Navigant described our concerns with the TRM v5.0 NTG algorithm and offered an alternative approach in an August 23, 2016 memo. Our alternative was not adopted for TRM v6.0, but the approach that did make it into TRM v6.0 addresses what we believed were weaknesses of TRM v5.0 and produces results similar to our August 23 recommended alternative. Navigant recommends the algorithm in TRM v6.0 over the algorithm in TRM v5.0 to estimate free ridership for residential prescriptive rebate programs. A Navigant memo dated December 30, 2016 provides further discussion.

#### Participant Spillover: 0.02

**Method**: The PSO value is from GPY5 evaluation telephone survey research conducted with 100 GPY4 Nicor Gas HEER Program participants. The PSO result is based on applying the TRM v5.0 methodologies to identify spillover candidates, and estimating spillover savings using the Illinois TRM and Nicor Gas program data from GPY4. The TRM version 6.0 participant spillover methodology advises using a lower, more inclusive spillover threshold score of 5.0 rather than 7.0. Navigant re-examined our survey responses applying a threshold of 5.0, but no additional gas spillover was found. A Navigant memo dated December 16, 2016 provides further discussion. Navigant recommends the PSO value from the Nicor Gas study for PGL & NSG. The last participant spillover study for the PGL & NSG HER Program was conducted in GPY1, where evidence of PSO was found, but it was not quantified.

#### Non-Participant Spillover: 0.11

Method: Non-participant spillover value for 2018 (GPY7) is based on GPY2 evaluation research conducted for Peoples Gas and North Shore Gas to estimate spillover from non-participating trade allies. For statewide consistency, the methodology and survey instrument were derived from evaluation research completed for Ameren Illinois by Cadmus. For the spillover calculation, 59 interviews were conducted sampled from two groups of non-participating trade allies: 1) Trade allies that dropped out of the PGL or NSG program (so-called "drop out" trade allies): those who had participated in GPY1, but did not participate in GPY2; and 2) True non-participating trade allies - those who reported that they were aware of the PGL and NSG program, but had never participated. The value of 0.11 is a weighted average of 0.10 for Peoples Gas and 0.13 for NSG.

## **Residential Program Home Energy Rebate**

For Duct Sealing, Air Sealing, and Insulation

NTG: 0.90

Free ridership: 0.10 Spillover: 0.00

**Method**: The free ridership value was taken from the "Home Energy Savings Program GPY2/EPY5 Evaluation Report" prepared for Nicor Gas and ComEd (Navigant, 3/25/2014). Results for Nicor Gas for the weatherization component were: FR=0.10. No recommendation was made for spillover.

The GPY5 HER FR research did not have a representative mix of duct sealing, air sealing and insulation measures, which contribute significant portions of the PGL & NSG program savings. Navigant concludes the GPY5 overall HER Program NTG (0.64) is not reasonable for duct sealing, air sealing, and insulation. Duct sealing, air sealing, and insulation FR and PSO research is planned for the first half of 2017. Navigant may recommend updated free ridership and spillover values using data from the PGL & NSG Home Energy Rebate Program survey planned for the first half of 2017 if results are final prior to May 30, 2017.

# Home Energy Rebate (HVAC and other equipment, excluding Smart Thermostats, Duct Sealing, Air Sealing, and Insulation Measures)

NTG: 0.63; Free Ridership: 0.49; Participant Spillover: 0.01; Non-Participant Spillover: 0.11 Method: FR and PSO: 2017 Survey of 74 GPY6 HVAC/Other Equipment participants and 60 participating trade allies. Memo: Net-to-Gross Research Results from GPY6 for the Peoples Gas and North Shore Gas Home Energy Rebate Program, Navigant, 5/26/17 NPSO: 2013 Survey of 59 non-participating trade allies. Residential Prescriptive Rebate Program GPY2 Evaluation Report, Navigant, 2/10/14

# Home Energy Rebate - Duct Sealing, Air Sealing, and Insulation Measures NTG: 0.73 to 0.78, measure-level and program-level values described below

**Method:** FR and PSO: 2017 Survey of 86 GPY6 Air Sealing, Duct Sealing, and Insulation participants and 60 participating trade allies. Memo: Net-to-Gross Research Results from GPY6 for the Peoples Gas and North Shore Gas Home Energy Rebate Program, Navigant, 5/26/17

# All scenarios of Air Sealing plus Attic Insulation Installed in the Same Project (with or without additional measures installed in the same project)

**Method**: Applies only in scenarios where air sealing and attic insulation are installed at the same time, and only if the savings for natural gas heating are estimated using the Illinois TRM Version 7.0, Section 5.6.1 (Air Sealing) and Section 5.6.5 (Ceiling/Attic Insulation) adjustment factor of 72% that was derived from air sealing and insulation research by Navigant (2018). See Navigant (2018) ComEd and Nicor Gas Air Sealing and Insulation Research Report. The 72% adjustment factor was derived from a gas consumption data regression analysis with an experimental design that does not require further net savings adjustment.

#### Either NTG Approach Option 1 or Option 2 are acceptable.

# NTG Application Approach Option 1: Measure-level NTG values for air sealing, duct sealing, and insulation

a. All scenarios of Air Sealing plus Attic Insulation Installed in the Same Project (with or without additional measures installed in the same project)

NTG: Use 72% TRM savings adjustment factor and no further NTG adjustment

b. Air Sealing and Insulation Measures: Measure-level NTG value of 0.73 applies to any single measure or combined set of air sealing and insulation measures, alone or in combination with other measures installed in the same project, EXCLUDING the net savings for air sealing and attic insulation installed in the same project (those net savings are always calculated separately):

NTG 0.73 Free ridership 28% Spillover 1%

c. Duct Sealing Measures. Measure-level NTG value of 0.78 for duct sealing applies only if the measure level NTG of 0.73 is used for air sealing (w/o attic insulation) and other insulation measures.

# Residential Program Home Energy Rebate NTG 0.78 Free ridership 23% Spillover 1% NTG Application Approach Option 2: Program-level NTG value for air sealing, duct sealing, and insulation measures a. All scenarios of Air Sealing plus Attic Insulation Installed in the Same Project (with or without additional measures installed in the same project) NTG: Use 72% TRM savings adjustment factor and no further NTG adjustment b. Duct Sealing, Air Sealing and Insulation Measures, Program-level NTG value of 0.75 applies to all DS/AS/I measures, alone or in combination, EXCLUDING the net savings for air sealing and attic insulation installed in the same project (those net savings are always calculated separately): NTG 0.75

Free ridership 26% Spillover 1%

	Advanced (Smart) Thermostats defined in the Illinois TRM
GPY6	NTG Not Applicable
	Method: Research for TRM Version 5.0 savings value was conducted as a large sample
	regression analysis of energy use data with a control group. Natural gas savings shown in
	TRM Version 5.0 Section 5.3.16 are net savings; no additional NTG adjustment is applied.
2018	NTG: Not Applicable
(GPY7)	<b>Method</b> : No new research. The natural gas heating savings shown in Illinois TRM Version 6.0
	Section 5.3.16 is based on regression analysis on energy use data and thus is a net savings
	number; no additional NTG adjustment is applied.
2019	NTG: Not Applicable
	Method: No new research. The savings for natural gas heating provided in Illinois TRM
	Version 7.0, Section 5.3.16 were derived from a billing regression analysis with an
	experimental design that does not require further net savings adjustment.

	Low to Moderate Income Home Weatherization / Assessment
GPY6	Overall NTG 1.00
	Method: SAG consensus.
2018	NTG: 1.00
(GPY7)	Method: No new research. Retained GPY6 final value.
2019	NTG for savings in this customer category are covered by the Income Eligible Programs,
	Home Energy Jumpstart, or by Home Energy Rebate.

	Income Eligible Programs
2019	NTG: 1.00
	Method: NTG values for all Income Eligible programs are 1.00 as defined by the Illinois
	TRM version 7.0.

	Multi-Family Program
GPY1	Direct Install Program NTG: 0.90 Free ridership 0.10 Spillover 0.00 Method and Source: Evaluation research consisting of participating GPY1 customer self-reports (tenants and property decision-makers). NTG based on CATI telephone survey with participating decision-makers (21 property managers for Peoples Gas and North Shore Gas interviewed from a GPY1 population of 343). Program was delivered an assessment and direct installation offering.
GPY2	Peoples Gas: Deemed NTG 0.90; Free ridership 0.10; Participant Spillover: 0.00 North Shore Gas: Deemed NTG 0.90; Free ridership 0.10; Participant Spillover: 0.00 Method and Source: Deemed by SAG consensus from GPY1 evaluation research.
GPY3	Peoples Gas: Deemed NTG 0.90; Free ridership 0.10; Participant Spillover: 0.00 North Shore Gas: Deemed NTG 0.90; Free ridership 0.10; Participant Spillover: 0.00 Method and Source: Deemed by SAG consensus from GPY1 evaluation research.
GPY4	Peoples Gas and North Shore Gas:  In-Unit Direct Installation: NTG 0.90; Free ridership 0.10; Spillover: 0.00 Method and Source: No new research. Value from GPY1 evaluation research.  Prescriptive Rebates: NTG 0.84 (PGL); 0.90 (NSG) Method and Source: Based on a weighting of the C&I Prescriptive GPY4 NTG value (0.58) and Multifamily DI NTG (0.90) to reflect decision-makers, measure types, and decision scenario indicated by rate classification.  TAPI Incentives: NTG 0.99 Method and Source: Based on GPY1 evaluation research of the joint utility Small Business Energy Savings Program.  Custom Incentives: NTG 0.68 Method and Source: Based on the C&I Custom Rebate Program GPY4 NTG value.  Gas Optimization: NTG 1.02 Method and Source: Based on GPY1 evaluation research of the joint utility Retro-Commissioning Program.
GPY5	In-Unit Direct Installation: NTG 0.92; Free ridership 0.10; Spillover: 0.02  Method and Source: Free-ridership value from GPY4. Spillover value from Nicor Gas CATI telephone survey with participating GPY3 decision-makers (74 property managers).  Prescriptive Rebates: NTG 0.87 (PGL); 0.92 (NSG)  Method and Source: Based on a weighting of the C&I Prescriptive GPY5 NTG value (0.63) and Multifamily DI NTG (0.92) to reflect decision-makers, measure types, and decision scenario indicated by rate classification.  TAPI Incentives: NTG 0.99

	Multi-Family Program
	Method and Source: No new research. Value from GPY4.
	Custom Incentives: NTG 0.78
	Method and Source: Based on the C&I Custom Rebate Program GPY5 NTG value.
	Gas Optimization: NTG 1.02
	Method and Source: No new research. Value from GPY4.
GPY6	In-Unit Direct Installation: NTG 0.92; Free ridership 0.10; Spillover: 0.02
	<b>Method and Source</b> : Free-ridership value from GPY4. Spillover value from Nicor Gas CATI
	telephone survey with participating GPY3 decision-makers (74 property managers).
	Comparable research will be conducted with GPY5 PGL and NSG property
	owners/managers to update these values.
	Prescriptive Rebates and Partner Trade Ally Projects: NTG 0.92 (PGL); 0.92 (NSG)
	Method and Source: These types of projects have not been directly researched in Multi-
	Family, so proxy values from other programs have been used and weighted in previous
	years. When GPY4 NTG research updates in C&I Prescriptive and with Small Business trade
	allies are applied to the Multi-Family NTG values, the Multi-Family values fall in a range of
	0.90 to 0.93. Differences in that range are not significant. We recommend a single value of
	0.92 until research is completed with GPY5 PGL and NSG property owners/managers to
	establish values for these projects and decision makers.
	Custom Incentives: NTG 0.78
	Method and Source: Based on GPY2 custom project research that included multi-family
	decision-makers. The GPY4 C&I Custom Program NTG research did not include multi-
	family decision makers.
	Gas Optimization: NTG 1.02
	Method and Source: No new research. Value from GPY4.
2018	In-Unit Direct Installation (except faucet aerators): NTG 0.85; Free ridership 0.18;
(GPY7)	Participant Spillover: 0.03; Non-Participant Spillover 0.00.
	In-Unit Direct Installation Faucet Aerators: NTG 1.03; Free ridership 0.00; Participant
	Spillover: 0.03; Non-Participant Spillover 0.00.
	Proceedintive Polyston NTC 0.76. Error ridorchin 0.27. Porticinant Spillover, 0.02. Non
	Prescriptive Rebates: NTG 0.76; Free ridership 0.27; Participant Spillover: 0.03; Non-Participant Spillover 0.00.
	ranicipant Spinover 0.00.
	Partner Trade Ally Projects: NTG 0.88; Free ridership 0.15; Participant Spillover: 0.03; Non-
	Participant Spillover 0.00.
	Tarrespant Spinover 6.66.
	Custom Incentives: NTG 0.72; Free ridership 0.31; Participant Spillover: 0.03; Non-
	Participant Spillover 0.00.
	Comprehensive Project Roll-up Average: NTG 0.84; Free ridership 0.19; Participant
	Spillover: 0.03; Non-Participant Spillover 0.00.
	<b>Method</b> : Free-ridership and Participant Spillover values from GPY5 evaluation research
	conducted by CATI telephone survey with GPY5 decision-makers (59 property managers or
	owners). Interviews with 11 trade allies did not find evidence of PSO or NPSO. The GPY5
	research applied the TRM v6.0 NTG algorithms.

# **Multi-Family Program**

Due to the small population of MF custom projects, the GPY5 Multifamily research completed three Multi-Family Custom interviews, with a FR = 0.31, but did not achieve a 90/10 result. The GPY4 C&I Custom Rebate Program FR estimate was 0.31, and 0.31 is judged to be the best available value. The GPY4 research used TRM v5.0 NTG algorithms, and GPY5 research used TRM v6.0 NTG algorithms.

TRM version 6.0 specifies that the free ridership for faucet aerators be set at zero when estimating gross savings using the TRM specified baseline average water flow rate.

The comprehensive roll-up NTG value covers Prescriptive, PTA, and Custom MF participants. The roll-up value may be used instead of the path-level NTGs.

Gas Optimization: NTG 1.02

Method and Source: No new research. Retained value from GPY6.

Assessment/Direct Install (all measures except faucet aerators and showerheads when using TRM specified baseline average water flow rates) NTG: 0.85; Free Ridership: 0.18; Participant Spillover: 0.03

**Method:** FR, PSO, NPSO (PGL & NSG EM&V GPY5; TRM v6.0 algorithms). Participant spillover was not estimated by program path; the 0.03 value represents the overall MF program based on 59 interviews conducted in the GPY5 MF NTG research. Trade ally interviews did not find PSO or NPSO.

# Assessment/Direct Install (faucet aerators and showerheads when using TRM specific baseline average water flow rates) NTG: 1.03

TRM version 7.0 specifies that the free ridership for faucet aerators and showerheads be set at zero when estimating gross savings using the TRM specified baseline average water flow rate. PSO =0.03 based on 59 interviews conducted in the GPY5 MF NTG research. Trade ally interviews did not find PSO or NPSO.

**Multi-Family Comprehensive Prescriptive Rebates** 

NTG: 0.76; Free Ridership: 0.27; Participant Spillover: 0.03

Method: FR, PSO, NPSO (PGL & NSG EM&V GPY5; TRM v6.0 algorithms)

Multi-Family Comprehensive TAPI Incentives/Partner Trade Allies

NTG: 0.88; Free Ridership 0.15; Participant Spillover: 0.03.

Method: FR, PSO, NPSO (PGL & NSG EM&V GPY5; TRM v6.0 algorithms)

**Multi-Family Comprehensive Custom Incentives** 

NTG; 0.72; Free Ridership: 0.31; Participant Spillover: 0.03.

**Method:** FR (IL EM&V GPY4 for C&I Custom Program and IL EM&V GPY5 for MF Program), PSO, NPSO (PGL & NSG EM&V GPY5 for MF program). GPY4 research used TRM v5.0 algorithms, GPY5 research used TRM v6.0 algorithms

Multi-Family Comprehensive Roll-up of Prescriptive, PTA, and Custom

NTG; 0.84; Free Ridership 0.19; Participant Spillover: 0.03

**Method:** FR, PSO, NPSO (PGL & NSG EM&V GPY5; TRM v6.0 algorithms). The roll-up NTG value covers Prescriptive, PTA, and Custom MF participants. The roll-up value may be used instead of the path-level NTGs.

## **Multi-Family Program**

Multi-Family Comprehensive Gas Optimization

NTG: 0.91; Free Ridership: 0.14; Participant Spillover 0.05

**Method:** FR and PSO: 2018 Survey of 7 GPY6 participants. Memo: Net-to-Gross Research Results from GPY6 for the Gas Optimization Study Offering, Navigant, 8/29/18, revised 9/13/18. The Gas Optimization offering has three paths: building heating, process, and steam plant. Multi-family buildings participate through the building heating path. Multi-Family specific GOS FR and PSO values are preferred if available. The GPY6 population did not have multi-family participants, and the two building heating respondents in the sample of seven were not compelling as MF representatives so Navigant used the overall program-level FR and PSO values.

	Behavioral Energy Savings - Home Energy Reports
GPY1	NA
	Launched in GPY3
GPY2	NA
	Launched in GPY3
GPY3	NTG: 1.00
	Free ridership N/A
	Spillover N/A
	Method: GPY3 billing analysis will yield a net savings value that includes FR and
	participant SO impacts.
GPY4	NTG: 1.00
	Free ridership N/A
	Spillover N/A
	Method: GPY4 billing analysis will yield a net savings value that includes FR and
	participant SO impacts.
GPY5	NTG: 1.00
	Free ridership N/A
	Spillover N/A
	Method: GPY5 billing analysis will yield a net savings value that includes FR and
	participant SO impacts.
GPY6	NTG: Not applicable
	Free ridership N/A
	Spillover N/A
	Method: GPY6 billing analysis will yield a net savings value that includes FR and
	participant SO impacts.
2018	NTG: Not applicable when the natural gas savings calculated by evaluation is based on
(GPY7)	regression analysis on energy use data and thus is a net savings number; no additional NTG
	adjustment is applied.
2019	NTG: Not applicable. The savings for natural gas heating provided are derived from a
	billing regression analysis with an experimental design that does not require further net
	savings adjustment.

	Targeted Outreach and Education - Elementary Energy
	Education
GPY1	No Program
GPY2	No Program
GPY3	No Program
GPY4	Program NTG: 0.79
	Free ridership 0.21
	Spillover 0.00
	Method and Source: PGL and NSG have joined the Elementary Energy Education (EEE)
	Program offered by Nicor Gas and ComEd. The EEE Program NTG and free-ridership values
	were the recommended values for Nicor Gas for GPY4. Nicor Gas GPY4 values were based
	on evaluation research conducted on the EEE Program for Nicor Gas for GPY1.
GPY5	NTG 1.05
	Free ridership 0.14
	Spillover 0.19
	Method: No new Illinois research. Free-ridership was estimated as the average of values
	from three Elementary Energy Education impact evaluation reports (weighted 2/3
	showerheads, 1/3 aerators): NIPSCO (FR=12%; final report June 2013), Nicor Gas Rider 29
	(FR=3%; final report September 2011), and GPY1 Nicor Gas (FR=27%; final report (July 2013).
	Rider 29 did not estimate spillover; the spillover is the average of results from NIPSCO
	(SO=21.5%) and GPY1 Nicor Gas (SO=17%).
GPY6	Program NTG: 1.00
	Water Efficient Showerheads NTG 1.00
	Water Efficient Kitchen Aerators NTG 1.00
	Water Efficient Bath Aerators NTG 1.00
	Method: Based on SAG consensus.
2018	Program NTG: 1.00
(GPY7)	<b>Method</b> : No new research. Retained GPY6 final value. Program value applies to all natural
	gas saving measures offered through the program, including Water Efficient Showerheads;
	Water Efficient Kitchen Aerators; Water Efficient Bath Aerators; Water Heater Setback, and
2010	Shower Timers.
2019	Program NTG: 1.00
	<b>Method:</b> No new research. SAG Consensus. Program value applies to all natural-gas saving
	measures offered through the program, including Water Efficient Showerheads; Water
	Efficient Kitchen Aerators; Water Efficient Bath Aerators; Water Heater Setback, and Shower Timers.
	Timers.

	Business and Public Sector Programs Energy Jumpstart Direct
	Installation
GPY4	NTG 0.81; Free ridership 0.19
	Method and Source: Value drawn from free-ridership results from small business owners
	interviewed in the GPY1 Small Business Energy Savings Program. Free-ridership reflects
	separate evaluation analysis of direct install responses.
GPY5	NTG 0.82; Free ridership 0.18
	Method and Source: Value drawn from free-ridership results from small business owners
	interviewed in the GPY1 Small Business Energy Savings Program. Free-ridership reflects
	results of small business owner responses as reported directly in the Small Business GPY1
	evaluation report.
GPY6	NTG: 0.79
	Free ridership: 0.23
	Participant Spillover: 0.00
	Non-Participant Spillover: 0.02
	Method and Source: Free ridership and participant spillover based on GPY4 evaluation
	research of C&I Prescriptive Program participating trade allies and customers. Non-
	participant spillover of 2% from 5 non-participating trade ally interviews conducted in GPY2
	as part of evaluation research of the C&I Prescriptive Program.
2018	NTG: 0.79
(GPY7)	Method: No new research. Retained GPY6 final value.
2019	NTG: 0.79; Free Ridership: 0.23; Non-participant Spillover: 0.02
	Method: No new research. FR, PSO (IL EM&V GPY4), NPSO (IL EM&V GPY2)

	Business and Public Sector Programs Prescriptive Rebate
GPY1	NTG 0.43; Free ridership 0.57; Participant Spillover 0.00
	Method and Source: Evaluation research consisting of participating customer self-reports: 37 NTG interviews completed covering 40 projects from a population of 137 projects. No quantifiable participant spillover was found from customer self-reports. Customer
	participant self-reported free-ridership was 57 percent.
GPY2	NTG 0.63; Free ridership 0.41; Participant Spillover 0.02; Non-Participant Spillover 0.02
	<b>Method and Source</b> : Evaluation research consisting of GPY2 participating customer self-
	reports, GPY2 participating trade ally self-reports, and non-participating trade ally self-
	reports. Free-ridership of 41% and participant spillover of 0.1% from 58 participating
	customer NTG interviews completed covering 127 projects from a population of 793 projects. Participant spillover of 2% from 9 participating trade ally interviews. Non-
	participant spillover of 2% from 5 non-participating trade ally interviews.
	participant spinover of 276 from 5 non-participating trace any interviews.
GPY3	NTG 0.63; Free ridership 0.41; Participant Spillover: 0.02; Non-Participant Spillover: 0.02
	Method and Source: Deemed by SAG consensus from GPY2 evaluation research.
GPY4	NTG 0.58; Free ridership 0.45; Participant Spillover: 0.01; Non-Participant Spillover: 0.02
	Method and Source: Based on GPY2 evaluation research, with minor adjustments based on
	consideration of planned measure mix.
GPY5	NTG 0.63; Free ridership 0.41; Participant Spillover: 0.02; Non-Participant Spillover: 0.02
	Method and Source: Based on GPY2 evaluation research of the C&I Prescriptive Program,
CDV(	but with no adjustments for a forecasted measure mix.
GPY6	NTG: 0.79 Free ridership: 0.23
	Participant Spillover: 0.00
	Non-Participant Spillover: 0.02
	Method and Source: Evaluation research consisting of GPY4 participating customer self-
	reports, and GPY4 participating trade ally self-reports. Free-ridership of 23% and
	participant spillover of 0% from 21 participating customer NTG interviews completed from
	a population of 49 (a relative precision of ± 13% at a 90% confidence level). Participant
	spillover of 0% from 8 participating trade ally interviews. Non-participant spillover of 2%
	from 5 non-participating trade ally interviews conducted in GPY2 as part of evaluation
	research.
2018	NTG: 0.79
(GPY7)	Method: No new research. Retained GPY6 final value.
2019	NTG: 0.79; Free Ridership 0.23; Non-participant Spillover: 0.02
	Method: No new research. FR, PSO (IL EM&V GPY4), NPSO (IL EM&V GPY2)

	Business and Public Sector Programs Custom Rebate
GPY1	NTG 0.68
	Free ridership 0.32
	Participant Spillover 0.00
	Method and Source: Evaluation research consisting of participating customer self-reports: 15 NTG interviews completed covering 15 projects from a population of 32 projects. No quantifiable participant spillover was found from customer self-reports.
GPY2	NTG 0.78; Free ridership 0.24; Participant Spillover 0.02; Non-Participant Spillover 0.00 Method and Source: Evaluation research consisting of GPY2 participating customer self-reports, GPY2 participating trade ally self-reports, and non-participating trade ally self-reports. Free-ridership of 41% and participant spillover of 0.1% from 40 participating customer NTG interviews completed covering 44 projects from a population of 100 projects. Participant spillover of 2% from 5 participating trade ally interviews. Non-participant spillover of 0% from 5 non-participating trade ally interviews.
GPY3	NTG 0.78; Free ridership 0.24; Participant Spillover 0.02; Non-Participant Spillover 0.00 Method and Source: Deemed by SAG consensus from GPY2 evaluation research.
GPY4	NTG 0.68  Method and Source: Based on GPY2 evaluation research, but with adjustment based on review of other Illinois Custom programs.
GPY5	NTG 0.78; Free ridership 0.24; Participant Spillover 0.02; Non-Participant Spillover 0.00 Method and Source: Based on GPY2 evaluation research of the C&I Custom Program, but with no further adjustments based on review of other Illinois Custom Program NTG values for GPY5/EPY8.
GPY6	NTG 0.69; Free ridership 0.31; Participant Spillover: 0.00; Non-Participant Spillover: 0.00 Method and Source: Evaluation research consisting of GPY4 participating customer self-reports, and GPY4 participating trade ally self-reports. Free-ridership of 31% and participant spillover of 0% from 13 participating customer NTG interviews completed from a population of 29 (a relative precision of ± 19% at a 90% confidence level). Participant spillover of 0 from 6 participating trade ally interviews. Non-participant spillover of 0% from 5 non-participating trade ally interviews conducted in GPY2 as part of evaluation research.
2018	NTG: 0.69
(GPY7)	Method: No new research. Retained GPY6 final value.
2019	NTG: 0.69; Free Ridership 0.31
	Method: No new research. FR, PSO (IL EM&V GPY4, NPSO (IL EM&V GPY2)
(GPY7)	from 5 non-participating trade ally interviews conducted in GPY2 as part of evaluation research.  NTG: 0.69  Method: No new research. Retained GPY6 final value.  NTG: 0.69; Free Ridership 0.31

	<b>Business and Public Sector Programs Gas Optimization</b>
GPY3	NTG 1.02; Free ridership 0.09; Participant Spillover: 0.11
	Method and Source: Evaluation recommendation accepted by SAG based on GPY1
	evaluation research of the joint C&I Retro-Commissioning Program (RCx).
GPY4	NTG 1.02; Free ridership 0.09; Participant Spillover: 0.11
	Method and Source: Deemed by SAG consensus. Values based on GPY1 RCx evaluation
	research.
GPY5	NTG 1.02; Free ridership 0.09; Participant Spillover: 0.11
	Method and Source: No new research. Values based on GPY1 RCx evaluation research.
GPY6	NTG 1.02; Free ridership 0.09; Participant Spillover: 0.11
	<b>Method and Source</b> : No new research. Values based on GPY1 RCx evaluation research.
2018	NTG: 1.02
(GPY7)	Method: No new research. Retained GPY6 final value.
2019	NTG 0.91; Free ridership 0.14; Participant Spillover: 0.05
	<b>Method:</b> FR and PSO: 2018 Survey of 7 GPY6 participants. Memo: Net-to-Gross Research
	Results from GPY6 for the Gas Optimization Study Offering, Navigant, 8/29/18, revised
	9/13/18.

	Business and Public Sector Strategic Energy Management (SEM)
2019	NTG: 1.00
	Method: SAG Consensus. Program NTG value would apply to other cohorts (for example,
	healthcare) as well as industrial. For equipment measures identified through SEM that are
	channeled through other incentive programs, use the NTG of the program processing the
	equipment incentive

	Business and Public Sector Retro-Commissioning
GPY1	NTG 1.02
	Free ridership 0.09
	Participant Spillover 0.11
	Method and Source: Evaluation research consisting of GPY1 participating customer and
	Retro-Commissioning Service Provider self-reports. Interviews conducted with 9 of 15
	participants from Peoples Gas and North Shore Gas and eight of nine Service Providers.
	Participant and Service Provider spillover researched.
GPY2	Peoples Gas: Deemed NTG 1.02; Free ridership 0.09; Participant Spillover: 0.11
	North Shore Gas: Deemed NTG 1.02; Free ridership 0.09; Participant Spillover: 0.11
	Method and Source: Deemed by SAG consensus from GPY1 evaluation research.
GPY3	Peoples Gas: Deemed NTG 1.02; Free ridership 0.09; Participant Spillover: 0.11
	North Shore Gas: Deemed NTG 1.02; Free ridership 0.09; Participant Spillover: 0.11
	<b>Method and Source</b> : Deemed by SAG consensus from GPY1 evaluation research.
GPY4	NTG 1.02; Free ridership 0.09; Participant Spillover: 0.11
	<b>Method and Source</b> : Deemed by SAG consensus. Values based on GPY1 evaluation research.
GPY5	NTG 1.02; Free ridership 0.09; Participant Spillover: 0.11
	<b>Method and Source</b> : No new research. Values based on GPY1 evaluation research.
GPY6	NTG 1.02; Free ridership 0.09; Participant Spillover: 0.11
	Method and Source: No new research. Values based on GPY1 evaluation research.
2018	NTG: 1.02
(GPY7)	Method: No new research. Retained GPY6 final value.
2019	NTG: 0.94; Free Ridership: 0.06, PSO and NPSO = 0.00
	<b>Method</b> : Evaluation research conducted 2017 and 2018 with GPY6/EPY9 project participants
	resulted in a NTG of 0.94 for gas. Memo: Net-to-Gross Research Results from EPY9/GPY6 for
	the Coordinated Utility Retro-Commissioning Program, Navigant, 8/25/18, revised 9/14/18.
	FR results weighted 36% for participants (FR=0.13) and 64% for service providers (FR=0.025). No spillover identified.
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	Business and Public Sector Dedicated New Construction
CDV/4	Program
GPY4	NTG 0.52  Method and Source: PGL and NSG have joined the Business New Construction (BNC)  Program offered by Nicor Gas and ComEd. The BNC Program NTG value was the recommended value for Nicor Gas for GPY4.
GPY5	NTG 0.92; Free ridership 0.08, Spillover 0.00
	<b>Method and Source</b> : Value drawn from gas-weighted free-ridership and spillover results from participant interviews conducted for the Nicor Gas and ComEd GPY3/EPY6 Business New Construction Program.
GPY6	NTG 0.67
	<b>Method and Source</b> : FR, PSO, and NPSO research conducted for Nicor Gas and ComEd for GPY4/EPY7 resulted in a NTG of 0.57 for gas. SAG consensus for GPY6 is a three-year average of 0.52, 0.92, and 0.57. Also applies to small business new construction.
2018	NTG: 0.77
(GPY7)	<b>Method</b> : Research conducted for ComEd and gas utility program partners for GPY5/EPY8 resulted in a NTG ratio of 0.83 for natural gas measures. SAG consensus for GPY6 and 2018 (GPY7) was to use a three-year average of the most recent NTG research values. For 2018 (GPY7), the three most recent research values are: 0.92, 0.57, and 0.83, producing an average of 0.77. The NTG value also applies to small business new construction. The research applied TRM v5.0 NTG algorithms.
2019	NTG: 0.70
	<b>Method:</b> Evaluation research conducted during GPY6/EPY9 for gas utility and ComEd projects resulted in a NTG of 0.48 for gas, applying TRM v6.0 methodologies. Memo: Net-to-Gross Research Results from the EPY9/GPY6 Non-Residential New Construction Program, Navigant, 8/24/18, revised 9/21/18. FR based on 24 interviews, PSO based on 120 on-line survey responses. SAG consensus NTG for GPY6 and 2018 (GPY7) was to use a three year average of the most recent research results (which were 0.92, 0.57, and 0.83 for 2018 (GPY7). For 2019, the SAG consensus is a four year average of NTG values (0.70), based on: 0.92, 0.57, 0.83, and 0.48.

	Business and Public Sector Combined Heat and Power
GPY5	Launched in GPY5
	NTG 0.73
	Free ridership 0.73
	Spillover 0.00
	Method: GPY5 NTG value for Nicor Gas Custom Program.
GPY6	NTG: Project-specific NTG values to be determined by evaluation early in each project. If
	that is not possible, the default of 0.80 NTG will be used.
	Method: NTG of 0.80 is an average based on evaluation secondary research and NYSERDA's
	0.90 NTG.
2018	NTG: Project-specific NTG values to be determined by evaluation early in each project. If
(GPY7)	that is not possible, the default of 0.80 NTG will be used.
	Method: No new research. Retained GPY6 approach.
2019	NTG: Project-specific NTG values to be determined by evaluation early in each project. If
	that is not possible, the default of 0.80 NTG will be used.

	Small Business Energy Savings
GPY1	NTG 0.99
GI II	Free ridership 0.02
	Participant Spillover 0.01
	Method and Source: Evaluation research consisting of GPY1 participating customer self-
	report combined with trade ally input. Customer self-reports: 30 participant NTG
	interviews completed covering 31 projects from a population of 396 projects. Basic method
	of participant free ridership analysis was applied. One percent participant spillover was
	found from customer self-reports. Customer participant self-reported free-ridership was 18
	percent for Peoples Gas and North Shore Gas. Trade ally interviews: Three trade allies
	interviewed representing 98% of ex ante program therm savings. Individual trade ally
	responses to free-ridership questions were weighted by their respective fuel-specific
	program savings contributions and combined for a fuel-specific overall free-ridership rate.
	This approach resulted in an evaluation estimate of 2 percent free-ridership for gas
	measures.
GPY2	Peoples Gas: Deemed NTG 0.99; Free ridership 0.02; Participant Spillover: 0.01
	North Shore Gas: Deemed NTG 0.99; Free ridership 0.02; Participant Spillover: 0.01
	Method and Source: Deemed by SAG consensus from GPY1 evaluation research.
GPY3	Peoples Gas: Deemed NTG 0.99; Free ridership 0.02; Participant Spillover: 0.01
	North Shore Gas: Deemed NTG 0.99; Free ridership 0.02; Participant Spillover: 0.01
	<b>Method and Source</b> : Deemed by SAG consensus from GPY1 evaluation research.
GPY4	NTG 0.99; Free ridership 0.02; Participant Spillover: 0.01
	Method and Source: Based on evaluation recommendation. Did not reach consensus.
GPY5	NTG 0.93 (for Direct Install and Retrofit Incentives)
	Free ridership 0.09 Spillover 0.02
	Method: The GPY5 NTG value uses an equal-weight average of the free-ridership estimate
	from participant survey research performed on ComEd participants during EPY7 with the
	free-ridership estimate derived from PG/NSG trade ally interviews in GPY1. For participant
	spillover, the EPY7 ComEd result was 2%, the Nicor Gas GPY1 result was 2%, and PG/NSG
	GPY1 result was 1%. A value of 2% for participant spillover was set for all three utilities.
	This results in a NTGR of 0.93. For ComEd PY7 NTG research, Navigant conducted a CATI
	survey of 70 program projects drawn at random from a sample frame of 4,441 projects with
	ex-ante savings of 5,000 kWh or greater, representing 82 percent of PY7 projects and 98
	percent of PY7 expected savings. Sample size chosen to attain +/- 10 percent precision at 90
CDVC	percent confidence.
GPY6	NTG 0.93 for Direct Install, Retrofit (custom and prescriptive projects)
	Free ridership 0.09; average of participant (0.16) and trade ally (0.03)
	Participant Spillover 0.02 Non-Participant Spillover 0.00  Mathada The CRYC NTC value was an agual variable average of the 16 percent free
	Method: The GPY6 NTG value uses an equal-weight average of the 16 percent free-
	ridership estimate from participant survey research performed on ComEd participants
	during EPY7 (described in GPY5 above) with the three percent free-ridership estimate
	derived from PGL and NSG trade ally interviews in GPY4. The PGL and NSG GPY4 trade
	ally free ridership is based on 12 trade ally interviews from a population of 55. The GPY4 trade ally interviews found no spillover. For participant spillover, the EPY7 ComEd result
	Trade any interviews found no spinover. For participant spinover, the EF 17 Confed result

## **Small Business Energy Savings** was 2%, the Nicor Gas GPY1 result was 2%, and PG/NSG GPY1 result was 1%. A value of 2% for participant spillover was set for all three utilities. 2018 NTG 0.92 for Direct Install and Retrofit (custom and prescriptive projects) (GPY7) Free ridership 0.09; equal weighted average of participant (0.15) and trade ally (0.03) results Participant Spillover 0.01 Non-Participant Spillover 0.00 Method: The 2018 (GPY7) NTG value uses an equal-weight average of the 15 percent free ridership estimate from participant telephone survey research conducted on 44 PGL & NSG participants from GPY5, and a three percent free-ridership estimate for 12 PGL & NSG trade allies from interviews conducted in GPY4. The participant free ridership estimate was based on "Option 1" of the TRM v5.0 NTG protocol which is now the protocol in TRM v6.0. The PGL and NSG GPY4 trade ally free ridership is based on a representative stratified sample of 12 trade ally interviews from a population of 55. The GPY4 trade ally interviews found no spillover. For participant spillover, both GPY5 and GPY1 results for PGL & NSG were 1 percent. 2019 No new research. For CY2019, Navigant recommended using the TRM v7.0 methodology to weight the participant and service provider free ridership scores because the weighted triangulation method appropriately gives more weight to more certain results. The free ridership research we used for scoring the weighting of service providers and participants was conducted in GPY5. Navigant reviewed the reports that documented our methodology, sample sizes, survey instruments, and results for free ridership research, and then used judgement to assign scores to the triangulation factors according to TRM v7.0. The TRM v7.0 weighting methodology is not applied to spillover. See Navigant memo: Weighting Gas Utility Small Business Service Provider and Participant Free Ridership using the TRM Version 7.0 Protocol and CY2019 NTG Recommendations, 9/19/18. Direct Install: NTG 0.95; Participant Free Ridership: 0.15; Service Provider Free Ridership: 0.00; 40/60: 0.06; Participant Spillover: 0.01 Method: No new research. FR (40% weight to participant FR value researched in GPY5; 60% weight to service provider. Service provider for direct install is the program implementation contractor - FR is set at zero. PSO (Value based on GPY5 participant research); NPSO (no value). GPY5 FR and PSO researched values based on TRM v6.0 algorithms **Retrofit Incentives** NTG; 0.92; Participant Free Ridership: 0.15; Trade Ally Free Ridership: 0.03; 46/54: 0.09; Participant Spillover: 0.01 Method: No new research. FR (46% weight to participant FR value researched in GPY5; 54% weight to FR from GPY4 PGL & NSG trade ally research); PSO (Value based on GPY5 participant research); NPSO (no value). GPY5 FR and PSO researched values based on TRM v6.0 algorithms

	Building Operator Certification Training
2018	NTG: No Recommendation.
(GPY7)	Method: No new research. Use NTG guidance for 2019 if savings are claimed.
2019	NTG 1.00
	Method: In previous years, net savings was estimated directly through participant sampling
	and interviews. No further NTG adjustment is applied if deemed savings are based on
	historical results.

	Market Transformation
2018	NTG: No Recommendation.
(GPY7)	<b>Method</b> : No new research. Use NTG guidance for 2019 if savings are claimed.
2019	NTG: Pilot Specific
	Method: Pilot program-specific NTG values to be determined by evaluation early in each
	project. If that is not possible, default of 0.8 NTG to be used.

	<b>Emerging Technologies</b>
2018	NTG: No Recommendation.
(GPY7)	Method: No new research. Use NTG guidance for 2019 if savings are claimed.
2019	NTG 1.00
	Method: No NTG adjustment is applied to evaluation verified gross savings estimated for
	first year Emerging Technology pilot programs and research projects.