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

Summary of NTG Approach and Consensus Values for GPY1 through GPY5

March 1, 2015 Final Version for GPY5

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	Residential Programs Home Energy Jumpstart
GPY1	Peoples Gas NTG: 0.86
	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
	Method and Source: 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.
	Peoples Gas: Verified Gross Realization Rate: 1.00
	North Shore Gas: Verified Gross Realization Rate: no program
	Peoples Gas: NTG 0.96; Free ridership 8%; Participant Spillover: 4%
	North Shore Gas: NTG 0.96; Free ridership 8%; Participant Spillover: 4%
	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).
	Peoples Gas: Verified Gross Realization Rate: 0.93
	North Shore Gas: Verified Gross Realization Rate: 0.89
GPY3	Peoples Gas: Deemed NTG 0.96; Free ridership 8%; Participant Spillover: 4%
	North Shore Gas: Deemed NTG 0.96; Free ridership 8%; Participant Spillover: 4%
	Method and Source: Deemed by SAG consensus from GPY2 evaluation research.
	Peoples Gas: Verified Gross Realization Rate: 0.99
	North Shore Gas: Verified Gross Realization Rate: 0.98
GPY4	Peoples Gas: Deemed NTG 0.96; Free ridership 8%; Participant Spillover: 4%
	North Shore Gas: Deemed NTG 0.96; Free ridership 8%; Participant Spillover: 4%
	Method and Source: Deemed by SAG consensus. Values from GPY2 evaluation research.
	Peoples Gas and North Shore Gas:
	Deemed NTG 0.96; Free ridership 8%; Participant Spillover: 4%
	Method and Source: Values from GPY2 evaluation research.

	Residential Programs Home Energy Rebate
GPY1	Peoples Gas: NTG 0.72; Free ridership 28%; Participant Spillover 0%
	North Shore Gas: NTG 0.67; Free ridership 33%; Participant Spillover 0%
	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.
	Peoples Gas: Verified Gross Realization Rate: 1.00
	North Shore Gas: Verified Gross Realization Rate: 1.00
GPY2	Peoples Gas: NTG 0.82; Deemed Free ridership 28%; Non-Participant Spillover: 10%
	North Shore Gas: NTG 0.80; Deemed Free ridership 33%; Non-Participant Spillover: 13%
	Method and Source: Spillover results for GPY2 based on evaluation research to estimate
	spillover from non-participating trade allies. Non-participating trade ally spillover rates were
	calculated for GPY2. 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.
	Peoples Gas: Verified Gross Realization Rate: 1.01
	North Shore Gas: Verified Gross Realization Rate: 1.02
GPY3	Peoples Gas: Deemed NTG 0.82 ; Free ridership 28% ; Non-Participant Spillover: 10%
	North Shore Gas: Deemed NTG 0.80; Free ridership 33%; Non-Participant Spillover: 13%
	Method and Source: Deemed by SAG consensus from GPY1 and GPY2 evaluation research.
	Peoples Gas: Verified Gross Realization Rate: 1.00
	North Shore Gas: Verified Gross Realization Rate: 1.00
GPY4	Peoples Gas: Deemed NTG 0.82 ; Free ridership 28% ; Non-Participant Spillover: 10%
	North Shore Gas: Deemed NTG 0.80 ; Free ridership 33% ; Non-Participant Spillover: 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 30%; Non-Participant Spillover: 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.

	Multifamily Comprehensive Energy Efficiency Program (MCEEP)
GPY1	Direct Install Program NTG: 0.90
	Free ridership 10%
	Spillover 0%
	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.
	installation offering.
	Peoples Gas: Verified Gross Realization Rate: 1.00
	North Shore Gas: Verified Gross Realization Rate: 1.00
GPY2	Peoples Gas: Deemed NTG 0.90; Free ridership 10%; Participant Spillover: 0%
	North Shore Gas: Deemed NTG 0.90; Free ridership 10%; Participant Spillover: 0%
	Method and Source: Deemed by SAG consensus from GPY1 evaluation research.
	Peoples Gas: Verified Gross Realization Rate: 1.00
	North Shore Gas: Verified Gross Realization Rate: 0.98
GPY3	Peoples Gas: Deemed NTG 0.90; Free ridership 10%; Participant Spillover: 0%
	North Shore Gas: Deemed NTG 0.90; Free ridership 10%; Participant Spillover: 0%
	Method and Source : Deemed by SAG consensus from GPY1 evaluation research.
	Peoples Gas: Verified Gross Realization Rate: 1.00
	North Shore Gas: Verified Gross Realization Rate: 1.00
GPY4	Peoples Gas and North Shore Gas:
	In-Unit Direct Installation: NTG 0.90; Free ridership 10%; Spillover: 0%
	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.

Multifamily Comprehensive Energy Efficiency Program (MCEEP)

GPY5

Peoples Gas and North Shore Gas:

In-Unit Direct Installation: NTG 0.92; Free ridership 10%; Spillover: 2%

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

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.

	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.

	Targeted Outreach and Education
GPY1	No Program
GPY2	No Program
GPY3	No Program
GPY4	Program NTG: 0.79
	Free ridership 21%
	Spillover 0%
	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%).

	Business Programs Energy Jumpstart Direct Installation
GPY4	NTG 0.81; Free ridership 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 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.

	Business Programs Prescriptive Rebate
GPY1	NTG 0.43
	Free ridership 57%
	Participant Spillover 0%
	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.
	Peoples Gas: Verified Gross Realization Rate: 1.00
	North Shore Gas: Verified Gross Realization Rate: 1.00
GPY2	NTG 0.63
	Free ridership 41%
	Participant Spillover 2%
	Non-Participant Spillover 2%
	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 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.
	Peoples Gas: Verified Gross Realization Rate: 1.00
	North Shore Gas: Verified Gross Realization Rate: 1.00
GPY3	NTG 0.63; Free ridership 41%; Participant Spillover: 2%; Non-Participant Spillover: 2%
	Method and Source: Deemed by SAG consensus from GPY2 evaluation research.
	Peoples Gas: Verified Gross Realization Rate: 1.00
	North Shore Gas: Verified Gross Realization Rate: 1.00
GPY4	NTG 0.58; Free ridership 45%; Participant Spillover: 1%; Non-Participant Spillover: 2%
	Method and Source: Based on GPY2 evaluation research, with minor adjustments based on
	consideration of planned measure mix.
GPY5	NTG 0.63; Free ridership 41%; Participant Spillover: 2%; Non-Participant Spillover: 2%
	Method and Source: Based on GPY2 evaluation research of the C&I Prescriptive Program, but
	with no adjustments for a forecasted measure mix.

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CP1/4	Business Programs Custom Rebate
GPY1	NTG 0.68
	Free ridership 32%
	Participant Spillover 0%
	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.
	Peoples Gas: Verified Gross Realization Rate: 1.02
	North Shore Gas: Verified Gross Realization Rate: 1.02
GPY2	NTG 0.78
	Free ridership 24%
	Participant Spillover 2%
	Non-Participant Spillover 0%
	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.
	Peoples Gas: Verified Gross Realization Rate: 0.81
	North Shore Gas: Verified Gross Realization Rate: 0.81
GPY3	NTG 0.78; Free ridership 24%; Participant Spillover: 2%; Non-Participant Spillover: 0%
	Method and Source: Deemed by SAG consensus from GPY2 evaluation research.
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	Peoples Gas: Verified Gross Realization Rate: 0.96
	North Shore Gas: Verified Gross Realization Rate: 0.96
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 24%; Participant Spillover: 2%; Non-Participant Spillover: 0%
	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.

	Business Programs Gas Optimization
GPY3	NTG 1.02; Free ridership 9%; Participant Spillover: 11%
	Method and Source: Evaluation recommendation accepted by SAG based on GPY1 evaluation
	research of the joint C&I Retro-Commissioning Program.
	Peoples Gas: Verified Gross Realization Rate: 1.00
	North Shore Gas: Verified Gross Realization Rate: 1.00
GPY4	NTG 1.02; Free ridership 9%; Participant Spillover: 11%
	Method and Source: Deemed by SAG consensus. Values based on GPY1 evaluation research.
GPY5	NTG 1.02; Free ridership 9%; Participant Spillover: 11%
	Method and Source: No new research. Values based on GPY1 evaluation research.

	C&I Retro-Commissioning
GPY1	NTG 1.02
	Free ridership 9%
	Participant Spillover 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.
	Peoples Gas: Verified Gross Realization Rate: 1.06
	North Shore Gas: Verified Gross Realization Rate: 1.20
GPY2	Peoples Gas: Deemed NTG 1.02; Free ridership 9%; Participant Spillover: 11%
	North Shore Gas: Deemed NTG 1.02; Free ridership 9%; Participant Spillover: 11%
	Method and Source: Deemed by SAG consensus from GPY1 evaluation research.
	Peoples Gas: Verified Gross Realization Rate: 1.04
	North Shore Gas: Verified Gross Realization Rate: no savings installed
GPY3	Peoples Gas: Deemed NTG 1.02; Free ridership 9%; Participant Spillover: 11%
	North Shore Gas: Deemed NTG 1.02; Free ridership 9%; Participant Spillover: 11%
	Method and Source: Deemed by SAG consensus from GPY1 evaluation research.
	Peoples Gas: Verified Gross Realization Rate: 1.00
	North Shore Gas: Verified Gross Realization Rate: 1.00
GPY4	NTG 1.02; Free ridership 9%; Participant Spillover: 11%
	Method and Source: Deemed by SAG consensus. Values based on GPY1 evaluation research.
GPY5	NTG 1.02; Free ridership 9%; Participant Spillover: 11%
	Method and Source: No new research. Values based on GPY1 evaluation research.
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	Business New Construction
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 8%, Spillover 0% Method and Source: 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.

Small Business Energy Savings GPY1 NTG 0.99 Free ridership 2% Participant Spillover 1% 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. Peoples Gas: Verified Gross Realization Rate: 0.99 North Shore Gas: Verified Gross Realization Rate: 0.99 GPY2 Peoples Gas: Deemed NTG 0.99; Free ridership 2%; Participant Spillover: 1% North Shore Gas: Deemed NTG 0.99; Free ridership 2%; Participant Spillover: 1% Method and Source: Deemed by SAG consensus from GPY1 evaluation research. Peoples Gas: Verified Gross Realization Rate: 1.02 North Shore Gas: Verified Gross Realization Rate: 1.02 Peoples Gas: Deemed NTG 0.99; Free ridership 2%; Participant Spillover: 1% GPY3 North Shore Gas: Deemed NTG 0.99; Free ridership 2%; Participant Spillover: 1% Method and Source: Deemed by SAG consensus from GPY1 evaluation research. Peoples Gas: Verified Gross Realization Rate: 1.00 North Shore Gas: Verified Gross Realization Rate: 1.02 NTG 0.99; Free ridership 2%; Participant Spillover: 1% GPY4 Method and Source: Based on evaluation recommendation. Did not reach consensus. GPY5 NTG 0.93 (for Direct Install and Retrofit Incentives) Free ridership 9% Spillover 2% **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 freeridership estimate derived from PGL/NSG trade ally interviews in GPY1. For participant spillover, the EPY7 ComEd result was 2%, the Nicor Gas GPY1 result was 2%, and PGL/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 percent confidence.