

**IntegrYS (Peoples Gas and North Shore Gas)
Programs NTG Approach for GPY2 and GPY3**

DRAFT

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| Program | Residential Prescriptive Rebate (Joint) |
|--------------------------|---|
| NTG GPY1 | <p>Peoples Gas: NTG 0.72; Free ridership 28%; Spillover 0% North Shore Gas: NTG 0.67; Free ridership 33%; Spillover 0% Method: Customer self-reports and 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. Justification:</p> <ul style="list-style-type: none"> • New Program: Yes • Previous EM&V NTG exists: No |
| GPY2 EM&V Recommendation | <p>Evaluation recommends conducting NTG research in GPY2 and applying the results retrospectively to GPY2. Source: Base GPY2 evaluation NTG research on participating customer self-reports combined with trade ally interviews. Conduct interviews with trade allies representing a significant portion of ex ante program therm savings. Weight individual trade ally responses to free-ridership questions by their program savings contributions and combine for an overall free-ridership rate. Combine participant and trade ally results. Estimate spillover from participating customers and trade ally interviews. Justification:</p> <ul style="list-style-type: none"> • Program change: Program ramp up and additional measure added to the program. • Market change: No material change. • New Program: No • Previous EM&V NTG exists: Yes |
| GPY3 EM&V Recommendation | <p>Evaluation recommends deeming the NTG ratio for GPY3 based on GPY2 research Source: GPY2 NTG evaluation research. Justification:</p> <ul style="list-style-type: none"> • Program change: No material change. • Market change: No material change. • New Program: No • Previous EM&V NTG exists: Yes, from GPY1 <p>Other: Although the GPY2 NTG research results are not available at the start of GPY3, draft results for GPY2 will be available in the first half of GPY3. The GPY1 results will be partially representative of GPY3, but the GPY3 program will have no material changes from the GPY2, therefore, evaluation recommends applying GPY2 research prospectively to GPY3.</p> |

| Program | Single Family Direct Install Program |
|--------------------------|--|
| NTG GPY1 | <p>Program NTG: 0.86</p> <p>Free ridership Not estimated separately from NTG</p> <p>Spillover Not estimated separately from NTG</p> <p>Water Efficient Showerheads NTG 0.93</p> <p>Water Efficient Kitchen Aerators NTG 0.94</p> <p>Water Efficient Bath Aerators NTG 0.94</p> <p>Pipe Wrap NTG 0.67</p> <p>Method: Program launched 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.</p> |
| GPY2 EM&V Recommendation | <p>Evaluation recommends conducting NTG research in GPY2 and applying the results retrospectively to GPY2.</p> <p>Source: GPY2 evaluation research based on participating GPY2 customer self-reports.</p> <p>Justification:</p> <ul style="list-style-type: none"> • Program change: Program participation ramp up to full year, full-scale. • Market change: No material change. • New Program: Peoples Gas (No), North Shore Gas (Yes) • Previous EM&V NTG exists: No |
| GPY3 EM&V Recommendation | <p>Evaluation recommends deeming the NTG ratio for GPY3 based on GPY2 research.</p> <p>Source: GPY2 NTG research.</p> <p>Justification:</p> <ul style="list-style-type: none"> • Program change: No material change. • Market change: No material change. • New Program: No • Previous EM&V NTG exists: No, not at the start of the GPY3 program year (June 1, 2013) <p>Other: Although the GPY2 research results will not be available at the start of GPY3, draft results will be available in the first half of GPY3. Since the program launched in the fourth quarter of GPY1, GPY2 is the first full program year.</p> |

| Program | Multifamily Home Energy Savings Program (Joint) |
|--------------------------|--|
| NTG GPY1 | <p>Program NTG: 0.88 Free ridership 12% Spillover 0% Water Efficient Showerheads NTG 0.87 Water Efficient Kitchen Aerators NTG 0.91 Water Efficient Bath Aerators NTG 0.92 Method: Participant self-report. CATI telephone survey with participating decision-makers (17 property managers interviewed from a GPY1 population of 343).</p> |
| GPY2 EM&V Recommendation | <p>Evaluation recommends deeming the NTG ratio for GPY2. Source: GPY1 evaluation research Program NTG: 0.88 Water Efficient Showerheads NTG 0.87 Water Efficient Kitchen Aerators NTG 0.91 Water Efficient Bath Aerators NTG 0.92 Justification:</p> <ul style="list-style-type: none"> • Program change: No material change. • Market change: No material change. • New Program: No • Previous EM&V NTG exists: Yes <p><u>Note:</u> Small GPY1 sample size for Integrys direct install measures (17 property managers) could be expanded in GPY2 to obtain additional research data for NTG analysis.</p> |
| GPY3 EM&V Recommendation | <p>Evaluation recommends deeming the NTG ratio for direct installation measures, and conducting retrospective NTG research for new program components added in GPY3. Source: GPY1 evaluation research for direct installation measures, GPY3 research for savings from program components that are new in GPY3 Direct Install Water Efficient Showerheads NTG 0.87 Direct Install Water Efficient Kitchen Aerators NTG 0.91 Direct Install Water Efficient Bath Aerators NTG 0.92 Justification:</p> <ul style="list-style-type: none"> • Program change: No material change to direct install component, new program components added. • Market change: No material change. • New Program: No • Previous EM&V NTG exists: Yes (direct install), No (new components) <p><u>Note:</u> Small GPY1 sample size for Integrys direct install measures (17 property managers) could be expanded in GPY2 or GPY3 to obtain additional research data for NTG analysis.</p> |

| Program | C&I Prescriptive Rebate |
|--------------------------|--|
| NTG GPY1 | <p>NTG 0.44</p> <p>Free ridership 56%</p> <p>Spillover 0%</p> <p>Method: Customer self-reports: 27 NTG interviews completed covering 27 projects from a population of 137 projects. Basic method of free ridership analysis was applied. No quantifiable participant spillover was found from customer self-reports. Customer participant self-reported free-ridership was 56 percent.</p> <p>Justification:</p> <ul style="list-style-type: none"> • New Program: Yes • Previous EM&V NTG exists: No |
| GPY2 EM&V Recommendation | <p>Evaluation recommends conducting NTG research in GPY2 and applying the results retrospectively to GPY2.</p> <p>Source: Base GPY2 evaluation NTG research on participating customer self-reports combined with trade ally interviews. Apply basic method of participant free ridership analysis to customer self-reports. Conduct interviews with trade allies representing a significant portion of ex ante program therm savings. Weight individual trade ally responses to free-ridership questions by their program savings contributions and combine for an overall free-ridership rate. Combine participant and trade ally results. Estimate spillover from participating customer self-reports and trade ally interviews.</p> <p>Justification:</p> <ul style="list-style-type: none"> • Program change: Program ramp up and additional measures added to the program. • Market change: No material change. • New Program: No • Previous EM&V NTG exists: Yes |
| GPY3 EM&V Recommendation | <p>Evaluation recommends deeming the NTG ratio for GPY3 based on GPY2 research</p> <p>Source: GPY2 NTG evaluation research.</p> <p>Justification:</p> <ul style="list-style-type: none"> • Program change: No material change. • Market change: No material change. • New Program: No • Previous EM&V NTG exists: Yes, from GPY1 <p>Other: Although the GPY2 NTG research results are not available at the start of GPY3, draft results for GPY2 will be available in the first half of GPY3. The GPY1 results will not be representative of GPY3, but the GPY3 program will have no material changes from the GPY2, therefore, evaluation recommends applying GPY2 research prospectively to GPY3.</p> |

| Program | C&I Custom Rebate |
|--------------------------|--|
| NTG GPY1 | <p>NTG 0.71</p> <p>Free ridership 29%</p> <p>Spillover 0%</p> <p>Method: Customer self-reports: 8 NTG interviews completed covering 8 projects from a population of 32 projects. Basic method of free ridership analysis was applied. No quantifiable participant spillover was found from customer self-reports. Customer participant self-reported free-ridership was 29 percent.</p> <p>Justification:</p> <ul style="list-style-type: none"> • New Program: Yes • Previous EM&V NTG exists: No |
| GPY2 EM&V Recommendation | <p>Evaluation recommends conducting NTG research in GPY2 and applying the results retrospectively to GPY2.</p> <p>Source: Base GPY2 evaluation NTG research on participating customer self-reports combined with trade ally interviews. Apply basic method of participant free ridership analysis to customer self-reports. Conduct interviews with trade allies representing a significant portion of ex ante program therm savings. Weight individual trade ally responses to free-ridership questions by their program savings contributions and combine for an overall free-ridership rate. Combine participant and trade ally results. Estimate spillover from participating customer self-reports and trade ally interviews.</p> <p>Justification:</p> <ul style="list-style-type: none"> • Program change: Program ramp up and changes to participant and project mix. • Market change: No material change. • New Program: No • Previous EM&V NTG exists: Yes |
| GPY3 EM&V Recommendation | <p>Evaluation recommends deeming the NTG ratio for GPY3 based on GPY2 research</p> <p>Source: GPY2 NTG evaluation research.</p> <p>Justification:</p> <ul style="list-style-type: none"> • Program change: No material change. • Market change: No material change. • New Program: No • Previous EM&V NTG exists: Yes, from GPY1 <p>Other: Although the GPY2 NTG research results are not available at the start of GPY3, draft results for GPY2 will be available in the first half of GPY3. The GPY1 results will be partially representative of GPY3, but the GPY3 program will have no material changes from the GPY2, therefore, evaluation recommends applying GPY2 research prospectively to GPY3.</p> |

| Program | C&I Retro-Commissioning (Joint) |
|--------------------------|--|
| NTG GPY1 | <p>NTG 1.015</p> <p>Free ridership 9.5%</p> <p>Spillover 11.0%</p> <p>Method: Customer and Retro-Commissioning Service Provider self-reports. NTG based on GPY1 research – 9 of 15 Integrys participants and eight of nine Service Providers surveyed.</p> <p>Enhanced method. Participant and Service Provider spillover researched.</p> <p>Justification:</p> <ul style="list-style-type: none"> • New Program: Existing electric savings program, gas component is new • Previous EM&V NTG exists: No previous NTG for gas measures |
| GPY2 EM&V Recommendation | <p>Evaluation recommends deeming the NTG ratio for GPY2.</p> <p>Source: GPY1 NTG of 1.015.</p> <p>Justification:</p> <ul style="list-style-type: none"> • Program change: No material change. • Market change: Market evolving with service providers reaching outside of the program for work and increasing resources to deliver. • New Program: No • Previous EM&V NTG exists: Yes • Other: |
| GPY3 EM&V Recommendation | <p>Evaluation recommends deeming the NTG ratio for GPY3 based on GPY1 research. Research NTG again in GPY3 for prospective deeming in future years – two years at a time.</p> <p>Source: Use the GPY1 NTG of 1.015 for GPY3.</p> <p>Justification:</p> <ul style="list-style-type: none"> • Program change: No material change. • Market change: No material change. • New Program: No • Previous EM&V NTG exists: Yes • Other: |

| Program | Small Business Energy Savings (Joint) |
|--------------------------|--|
| NTG GPY1 | <p>NTG 0.99</p> <p>Free ridership 2%</p> <p>Spillover 1%</p> <p>Method: 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 Integrys. 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.</p> |
| GPY2 EM&V Recommendation | <p>Evaluation recommends deeming the NTG ratio for GPY2 based on GPY1 results.</p> <p>Source: GPY1 NTG of 0.99.</p> <p>Justification:</p> <ul style="list-style-type: none"> • Program change: No material change. • Market change: No material change. • New Program: No • Previous EM&V NTG exists: Yes |
| GPY3 EM&V Recommendation | <p>Evaluation recommends deeming the NTG ratio for GPY3 based on GPY1 results.</p> <p>Source: GPY1 NTG of 0.99.</p> <p>Justification:</p> <ul style="list-style-type: none"> • Program change: No material change, assuming the program size and measure mix do not change significantly. • Market change: No material change. • New Program: No • Previous EM&V NTG exists: Yes |