Impact Evaluation of PY2019 Custom Gas Installations in Rhode Island

DNV quantified natural gas savings for custom gas projects completed during the 2019 program year (PY). This year’s three-year rolling average realization rate is calculated using results from PY2017, PY2018, & PY2019.

APPRAOCH

Annual sample evaluations: In this approach, the measurement and verification (M&V) is repeated annually as the previous year’s tracking data becomes available. The overall program RR combines the latest 3-year results.

Key terms

- **Evaluated savings.** Verified savings using post installation site information and/or data collection techniques.
- **Realization rate (RR).** Ratio between evaluated and tracking savings. If RR = 100%, then tracking estimated savings were verified and consistent with onsite findings.
- **Tracking savings.** National Grid’s reported savings for the approved natural gas savings projects.

KEY FINDINGS

6.24 million therms savings from the total 3-year rolling program

<table>
<thead>
<tr>
<th>Year</th>
<th>Program realization rate</th>
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<tbody>
<tr>
<td>PY2017</td>
<td>RR 93%</td>
</tr>
<tr>
<td>PY2018</td>
<td>RR 83%</td>
</tr>
<tr>
<td>PY2019</td>
<td>RR 85%</td>
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| Program participants from 2017-2019 | 276 |
| Participants evaluated from 2017-2019 | 25 |
| 3 year Rolling realization rate average | 87% |

RECOMMENDATIONS

- Project savings calculators should have an accompanying memo that documents changes when savings deviate from submitted calculators or there are changes made to savings during the final stages of compiling project documentation.
- HVAC EMS project applicants should submit EMS screenshots, schedules, or trend data at the time of completion for comparing installed conditions versus original design documents.

Installed measures

- Energy Management Systems (EMS)
- HVAC Controls
- Heating Equipment
- Process Equipment
- Steam Traps
- Pipe Insulation
- Dehumidification
- and More