

IMPACT EVALUATION OF PY2022 CUSTOM GAS INSTALLATIONS IN RHODE ISLAND

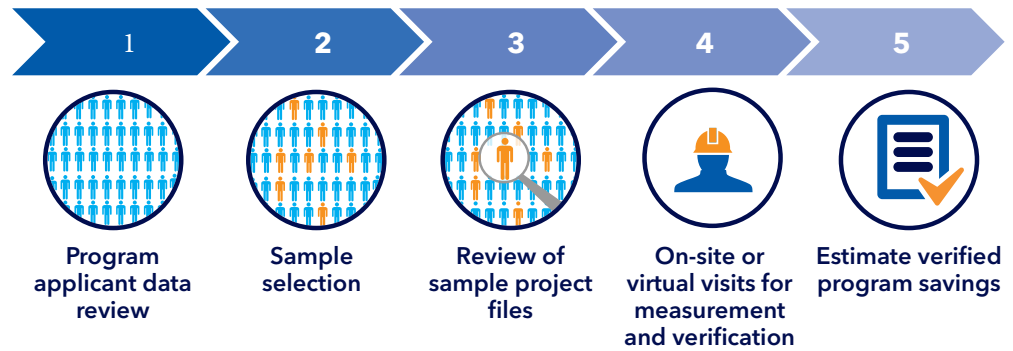
DNV quantified natural gas savings for custom gas projects completed during the 2022 program year (PY). This year's three-year rolling average realization rate is calculated using results from PY2020, PY2021, and PY2022.

APPROACH

Annual sample evaluations: Measurement and verification (M&V) is repeated annually as the previous year's tracking data becomes available.

The overall program realization rate (RR) combines the latest three-year results. The realization rate is the ratio between evaluated and tracking savings. If RR=100%, then applicant estimated savings were verified and consistent with onsite findings.

In PY2022, steam trap and non-steam trap sites were designed as separate evaluations with separate samples and results, as the sites were evaluated with different methodologies.



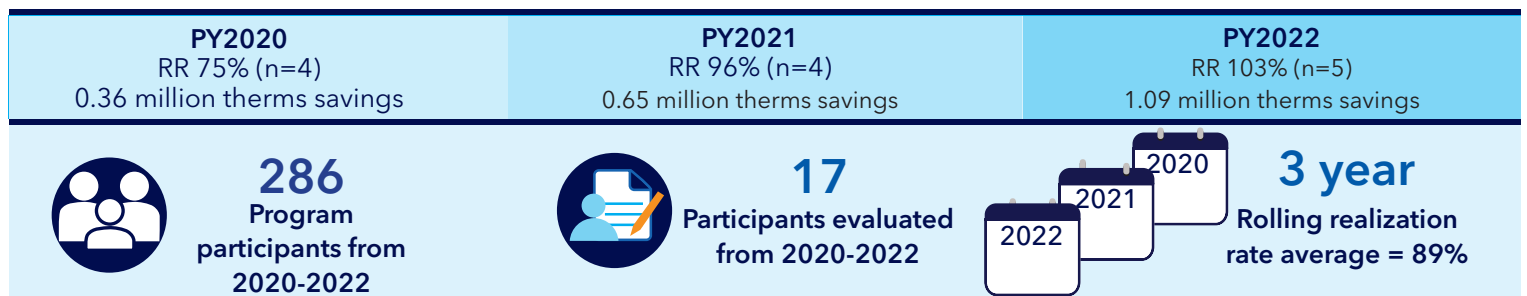
Site Evaluation Methodologies

Non-steam trap: Non-steam trap sites are sites which do not involve steam traps as an energy efficiency measure. These sites were evaluated with on-site visits and included the collection of operational data through M&V, collection of customer-provided trend data, or both. The evaluators used the data to produce verified savings analysis and realization results.

Steam trap: Steam trap sites are sites in which steam traps are the energy efficiency measure. This typically involves the repair or replacement of failed or faulty steam traps. Steam trap sites were evaluated using a separate sample and methodology than non-steam trap sites. The steam trap evaluation methodology consisted of performing file review and customer interviews. In PY2022, three steam trap sites were evaluated and no discrepancies were found.

KEY FINDINGS

In PY2022, five non-steam trap sites were evaluated which consisted of on-site visits with data collection through equipment metering or customer-provided operating data. The number of sampled non-steam trap sites and results are shown for each year of the three-year rolling evaluation below:



RECOMMENDATIONS

- DNV recommends that the project implementors critically review methodology and baseline assumptions for estimating savings for energy management systems, as those projects performed poorly in PY2022.
- DNV recommends that project implementors inquire about the future of the building, if the customer intends to use the measure for its full lifetime, or if there are any anticipated changes to the lifetime of the equipment or facility.
- Two sites in PY2022 were found to be zero savers and had the same measure and vendor. RI Energy should flag projects from that implementor for additional review of the baseline assumptions used in the savings analysis.

Installed measures

- Pipe insulation
- HVAC equipment
- Process equipment
- EMS controls