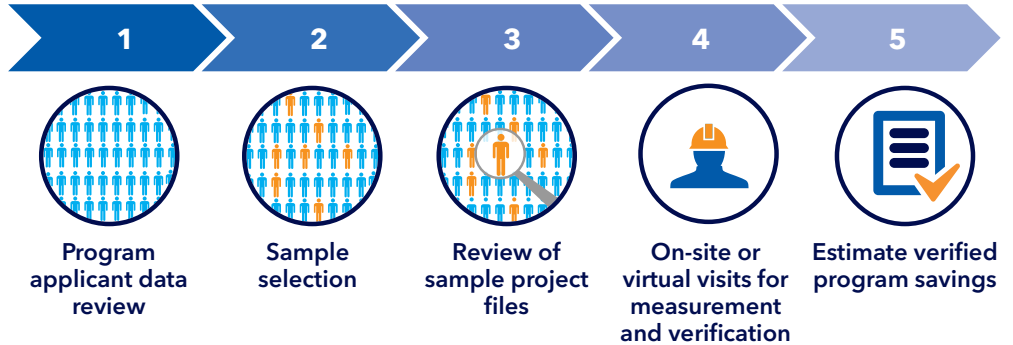


# IMPACT EVALUATION OF PY2021 CUSTOM GAS INSTALLATIONS IN RHODE ISLAND

DNV quantified natural gas savings for custom gas projects completed during the 2021 program year (PY). This year's three-year rolling average realization rate is calculated using results from PY2019, PY2020, and PY2021.

## 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 3-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.



## Site Evaluation Methodologies

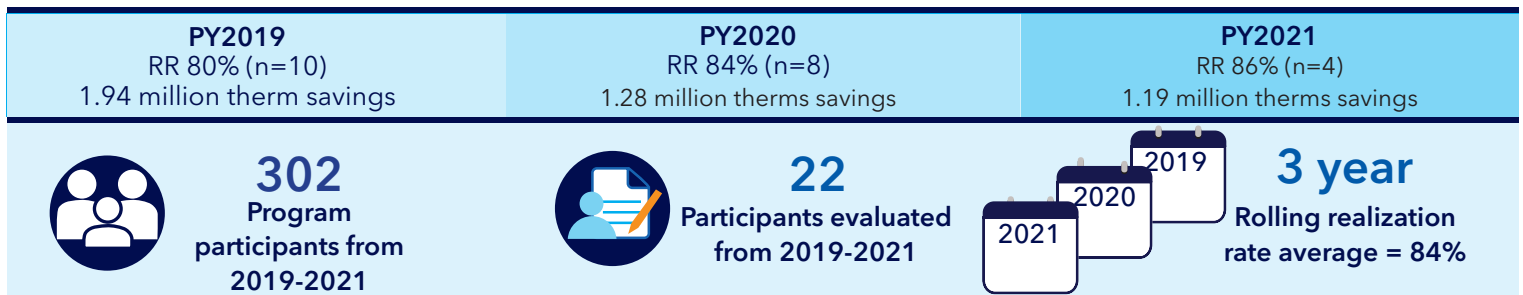
**Operational:** Ops sites are sites in which an operational adjustment or metered data was used in the evaluation. Operational adjustments include changes to factors such as operating hours, load, or interactive effects. Operational adjustments are supported by metered data.

**Non-Operational:** Non-ops sites are sites in which an operational adjustment or metered data was not used in the evaluation. Non-operational sites can adjust for factors such as calculation methodology, technology, quantity or baseline which are factors that do not need to be supported by metered data. Non-ops sites do not include operational adjustments.

**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. In PY2021, steam trap sites were not evaluated and were assumed to have a 100% RR.

## KEY FINDINGS

Non-steam trap sites were evaluated using a combination of operational and non-operational adjustments. In PY2021, all four sites were completed with operational results.



## RECOMMENDATIONS

- RI Energy should consider entirely separating out steam trap and non-steam trap studies as they are evaluated using inherently different approaches.
- RI Energy should assess whether to implement the new MA steam trap study results to develop an independent steam trap tool in RI or explore an alternate approach which may include leveraging other existing steam trap tools.
- DNV recommends that the engineer performing savings analyses should include more site-specific adjustments in the calculation models, especially in cases where building energy simulations are used for the determination of savings.

### Installed measures

- Pipe insulation
- Process equipment
- HVAC equipment
- EMS controls
- Destratification fans
- Cooler case doors and more