

DNV GL quantified program offerings and natural gas savings for custom gas projects completed during the 2017 program year (PY). These projects generally use customized site-specific engineering analysis to generate savings rather than deemed savings estimates. Starting with PY2017, custom gas studies in RI have shifted to a rolling-based sample and this study achieved reliable precisions by combining results from 6 PY2017 and 8 PY2016 sampled sites.

APPROACH



Program Applicant Data Review



Sample selection



Review of sample project files



Site visits for Measurement and verification



Estimate verified program savings

KEY TERMS

- **Tracking savings.** Applicant savings values entered in National Grid's Tracking System
- **Evaluated savings:** Verified savings calculated using on-site metered data collected at the sampled sites.
- **Realization rate (RR).** Ratio between evaluated and tracking savings. If RR= 100%, then applicant estimated savings have been verified to be consistent with onsite findings during an evaluation.
- **Rolling-based evaluations:** In this approach the measurement and verification (M&V) will be repeated annually as the previous year's tracking data becomes available. And the overall program RR will be calculated by combining the latest 3-year results or even 2-years if it achieves reliable precisions.

KEY FINDINGS

3.10M therms Program Savings

**PY2016
+
PY2017**



**185
Program
Participants**



**14
Participants
Evaluated**



85% Combined Program RR

(PY2017 RR 92% + PY2016 RR 71%)

PROGRAM INSTALLED MEASURES

Energy Management Systems
Building Shell Upgrades
Heating Equipment
Process Equipment
Steam Traps
Pipe Insulation
Boiler Controls
and More

RECOMMENDATIONS FROM PY2017 SITE EVALUATIONS

Steam trap projects in 2017 had poor realization rates when compared with other measures. The study recommends steam trap projects to be evaluated as a separate segment within the custom gas study in the future evaluations.



The study recommends a statewide deemed calculator to provide consistent and transparent savings estimates for insulation measures.

The study recommends using site-specific boiler efficiencies and operating hours for steam trap and insulation projects.



Add some meaningful form of documentation to ensure control based claimed savings are operational and validated.