

Executive Summary

2024 RI Energy Measure Life Study (Phase II)

Reliable measure life assumptions are critical for understanding the impact of Rhode Island Energy's energy efficiency programs on lifetime energy savings. Building on our previous review of high and medium priority measures in Phase I, Cadeo conducted a comprehensive review of measure life assumptions for a subset of remaining low priority prescriptive measures in Rhode Island Energy's 2023 and 2024 Technical Reference Manual (TRM) and benefit-cost ratio (BCR) models.

Methodology

- 1 Prioritized** the list of 50 measures among the 126 low priority measures
- 2 Reviewed/Scored** the existing source for selected measures and flagged any measure life sources scored as weak in any of the three rating categories (origin, robustness, and age)
- 3 Investigated** the potential existence of a better source of measure life information for flagged measures and determined that an alternative source is "better" if the new source did not have any weak scores in any of the three rating categories

Key Takeaway: In total, Cadeo reviewed **126** low priority prescriptive gas and electric measures across all sectors (commercial, residential, and income eligible) and flagged **77** measure for potential updates. The team then researched alternative sources for replacement for a subset of **50** flagged low priority measures selected by Rhode Island Energy.

Recommended Measure Life Updates

In total, our team recommended:

1. New measure life value and source for 13 of 50 (26%) reviewed measures

2. New measure life source update only for 25 of 50 (48%) reviewed measures

3. No update on measure life source or value for 13 of 50 (26%) reviewed measures

Positive changes



Water Heater
Res and C&I



Room Air
Cleaner C&I



Low Pressure
Drop Filter
C&I



Ice Machine
C&I

Measures with net change in measure life

Negative changes



Duct
Insulation IE



Refrigerated
Beverage
Vending
Machine C&I



Central Heat
Pump Res



Combo
Condensing
Boiler Res



Chiller C&I