

PRELIMINARY G2G Energy Data Analysis
Hart Consulting 11.12.16

These numbers are based on energy data submitted to EnergyStar Portfolio Manager as of 11/6/16, from all organizations that completed both a pre-implementation survey and had submitted sufficient energy data (19 properties fit that bill).

Highlights

Average Savings Site Energy Use: 19.3%
Average Savings Source Energy Use: 10.93%
Average Reduction Site EUI: 19.27%
Average Reduction Source EUI: 10.92%

Average Savings Weather Normalized Site Energy Use: 16.25%
Average Savings Weather Normalized Source Energy Use: 4.5%
Average Normalize Site EUI: 15.1%
Average Normalize Source EUI: 4.5%

Average Cost Savings: 24.8%
Total Cost Difference: \$53,688.42 (approx.)
GHG Saved: 12.9%
Total GHG Saved: 146.2 (Metric Tons CO₂e)

Specific Examples

Unity College Center for Performing Arts:

- Baseline Year Ending 10/31/14; Current Year Ending 6/30/16
 - Site Energy Savings (kBtu): 51.4%
 - Source Energy Savings (kBtu): 26.87%
 - Site EUI Reduction: 51.35%
 - Source EUI Reduction: 26.88%
 - Normalized Site Energy Savings: 45.59%
 - Normalized Source Energy Savings: 21.74%
 - Normalized Site EUI Savings: 45.6%
 - Normalized Source EUI Savings: 21.7%
 - Cost Savings: 48.9% (\$9,866.21)
 - GHG Savings: 49.1% (28.4 Metric Tons CO₂e)

Maine Discovery Museum

- Baseline Year Ending 7/31/15; Current Year Ending 8/31/16
 - Site Energy Savings (kBtu): 27.3%
 - Source Energy Savings (kBtu): 22.91%
 - Site EUI Reduction: 27.21%

- Source EUI Reduction: 22.9%
- Normalized Site Energy Savings: 19.05%
- Normalized Source Energy Savings: 18.73%
- Normalized Site EUI Savings: 19.0%
- Normalized Source EUI Savings: 18.8%
- Cost Savings: 6.8% (\$2,541.85)
- GHG Savings: 25.4% (24.5 Metric Tons CO2e)

Blue Hill Library

- Baseline Year Ending 5/31/15; Current Year Ending 6/30/16
 - Site Energy Savings (kBtu): 56.7%
 - Source Energy Savings (kBtu): 37.07%
 - Site EUI Reduction: 56.59%
 - Source EUI Reduction: 37.11%
 - Normalized Site Energy Savings: 56.70%
 - Normalized Source Energy Savings: 37.07%
 - Normalized Site EUI Savings: 56.6%
 - Normalized Source EUI Savings: 37.1%
 - Cost Savings: 29.7% (\$6,312.31)
 - GHG Savings: 9.8% (2.1 Metric Tons CO2e)

Definitions

- Source Energy Use: Total amount of energy used, including energy loss through transmission
- Site Energy Use: Total energy used by site (does not include transmission)
- GHG – Greenhouse Gas, as determined by Portfolio Manager
- Normalized – These numbers are derived using Portfolio Manager’s weather normalization algorithm to create more consistent values to compare year to year.