

Public Summary of the Efficiency Vermont 2017 Savings Claim

By April 1st each year Efficiency Vermont (EVT) submits a report of energy savings achieved the previous year. This report is then reviewed by the Public Service Department (PSD) and a recommendation is made to the Public Utilities Commission (PUC) as to the what the PSD has evaluated to be the actual level of savings achieved.

This is done through a thorough PSD review of projects completed by EVT, in order to identify errors or mischaracterizations of projects that can result in the savings being decreased or increased. EVT's energy savings portfolio is first broken down into sub-categories of residential and commercial savings and each of these sub-categories is then broken down again into smaller sub-components. This is to allow a proportional number of projects to be reviewed and to ensure that no one project could have a disproportionate impact on the overall savings being measured. By doing this annually the PSD can ensure that EVT is making appropriate progress towards the three-year savings goals set by the PUC, which are called quantitative performance indicators (QPIs).

For 2017, EVT submitted a savings claim of 127,960,812 kWh. Through the process described above, the PSD determined that EVT achieved 98.3% of this total. This percentage is termed a 'realization rate', as in "EVT realized 98.3% of the energy savings they claimed". This overall realization rate represents a weighted combination of 12 separate realization rates that were created for each sub-competent of the overall savings claim, which ranged between 94.4% and 100.6%. Each realization rate developed for the sub-components had an impact on the overall realization rate proportional to the amount of savings claimed in the respective sub-component. In addition to kWh, Summer and Winter kW is also evaluated along with MMBtu, water savings and Total Resource Benefit (this is an estimate of the monetary value of the energy and water savings).

These results represent 'gross' results and do not include additional factors, such as freerider (participants who would have participated without an incentive) and program spillover (measures installed outside of Vermont). The 'net' results come from the application of these results to the entire 2017 EVT savings database included the factors described above. As part of the evaluation process the PSD performs a quality assurance check on the results from the application of the realization rates to the database. This results in the 'net' savings used to determine progress towards the QPIs.

The Table on the following page provides the overall results from the savings report prepared by the PSD. A full copy of this report can be found on the PUC and PSD websites. This report contains full details on the project selection process and what adjustments were made and why. [\[Link to report on the PSD website\]](#)

2017 Gross Electric Realization Rate by Program Group

Program Group	Energy Saved		Winter Peak Reduction		Summer Peak Reduction	
	EVT Gross Claimed kWh	Realization Rate	EVT Gross Claimed kW*	Realization Rate	EVT Gross Claimed kW*	Realization Rate
Commercial, Industrial and Multifamily						
Custom Retrofit	25,658,832	96.6%	3,680	92.6%	3,216	91.8%
Custom NC/MOP	14,296,978	94.4%	2,012	97.0%	1,747	100.7%
Prescriptive Lighting	8,298,763	99.8%	1,336	100.0%	1,175	100.2%
Prescriptive Non-Lighting	1,024,115	100.2%	137	100.7%	126	100.0%
Smartlight	15,431,315	98.4%	2,337	93.8%	2,633	98.1%
Upstream HVAC	657,386	100.0%	80	100.0%	80	100.0%
C&I, MF Subtotal	65,367,389	97.0%	9,583	95.0%	8,977	96.7%
Residential						
Efficient Products	61,314,153	99.6%	13,772	98.6%	7,430	99.7%
Residential Retrofit/Low-Income Single-Family	9,128,003	100.6%	2,182	101.2%	632	103.6%
Home Performance with ENERGY STAR®**	191,264	100.0%	84	100.0%	1	100.0%
Residential New Construction	1,246,775	97.9%	354	97.5%	125	97.8%
Smartlight	2,151,338	96.9%	532	96.9%	146	96.9%
Upstream HVAC (+ HP water heaters) *	-11,438,109	100.0%	-3,262	100.1%	-460	98.8%
Residential Subtotal	62,593,423	99.6%	13,661	98.6%	7,875	100.0%
Portfolio Total	127,960,812	98.3%	23,244	97.1%	16,853	98.2%

* Negative values generally represent a switch from fossil fuels to electricity, resulting in an increase in electrical use.

The table below shows the results from the past three years of EVT’s savings verification.

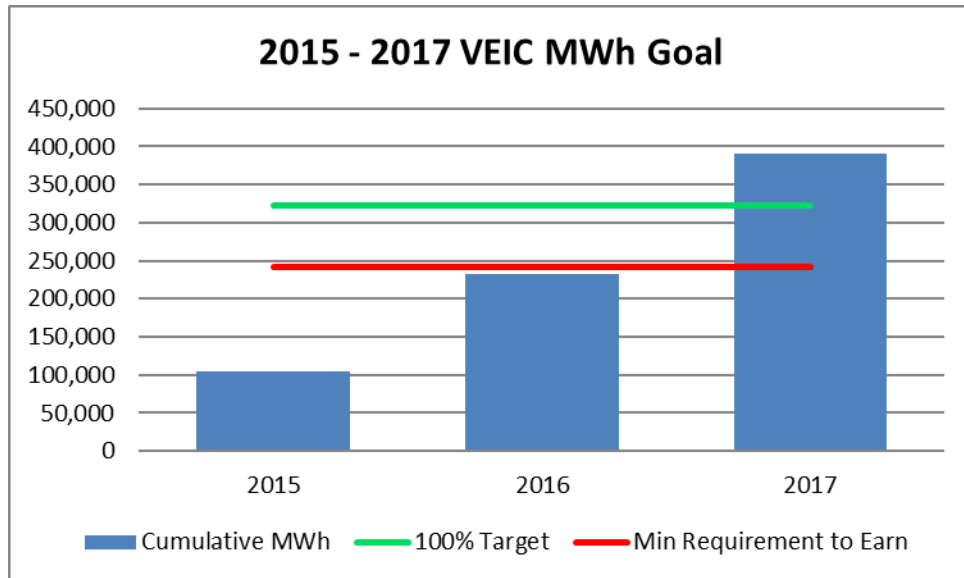
Three Year Gross Electric Realization Rate

Program Group	Energy Saved		Winter kW Reduction		Summer kW Reduction	
	EVT Gross Claimed kWh	Realization Rate	EVT Gross Claimed kW*	Realization Rate	EVT Gross Claimed kW*	Realization Rate
2017 Results						
C&I Subtotal	65,367,389	97.0%	9,583	95.0%	8,977	96.7%
Residential Subtotal	62,593,423	99.6%	13,661	98.6%	7,875	100.0%
Portfolio Total	127,960,812	98.3%	23,244	97.1%	16,853	98.2%
2016 Results						
C&I Subtotal	59,974,591	96.7%	9,121	98.9%	8,086	104.9%
Residential Subtotal	51,476,498	99.9%	10,596	99.0%	5,143	99.0%
Portfolio Total	111,451,089	98.2%	19,717	99.0%	13,229	102.6%
2015 Results						
C&I Subtotal	47,897,436	99.9%	6,890	96.5%	6,730	95.8%
Residential Subtotal	52,737,841	100.0%	11,478	99.4%	5,503	97.2%
Portfolio Total	100,635,276	99.9%	18,368	98.3%	12,234	96.4%

As stated previously, the above results are applied to the EVT savings database on a project-by-project basis, in order to produce accurate ‘net’ savings numbers that are used to judge if EVT is performing as required to meet their goals.

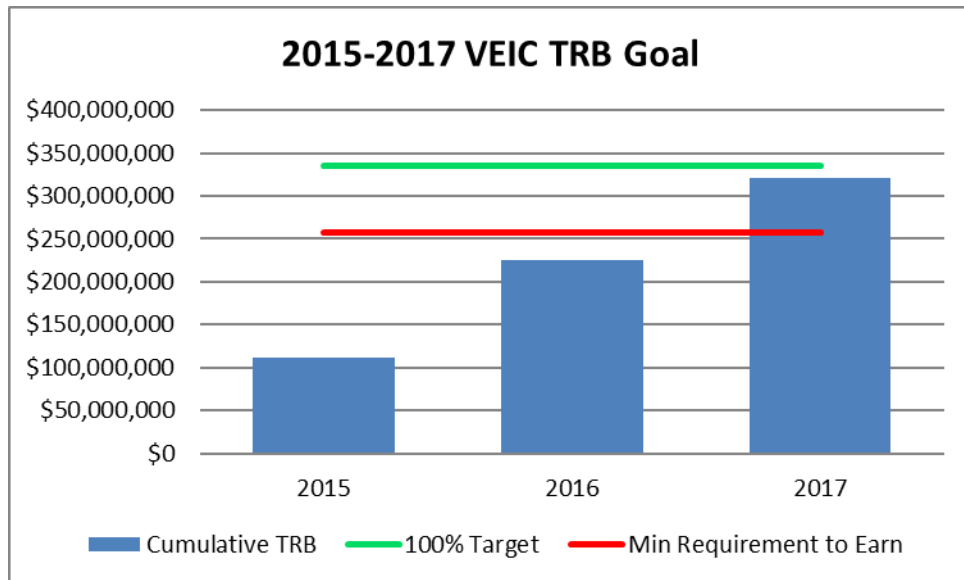
EVT has seven performance indicators that the PSD measure over the three-year period of their performance period. The graphs on the following pages summarize EVT’s progress toward those goals for the four main indicators tracked.

EEC PI #1: ELECTRICITY SAVINGS (MWh)



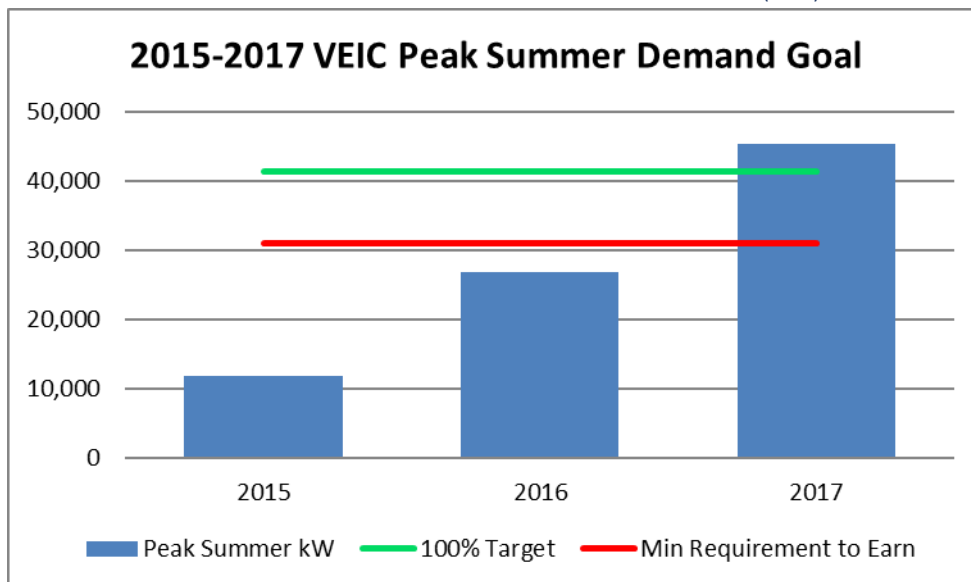
The above graph represents the first-year energy saving for each of the tracked years. The totals are cumulative over the performance period. In this case EVT achieved 121% of its required target.

EEC PI #2: TOTAL RESOURCE BENEFITS



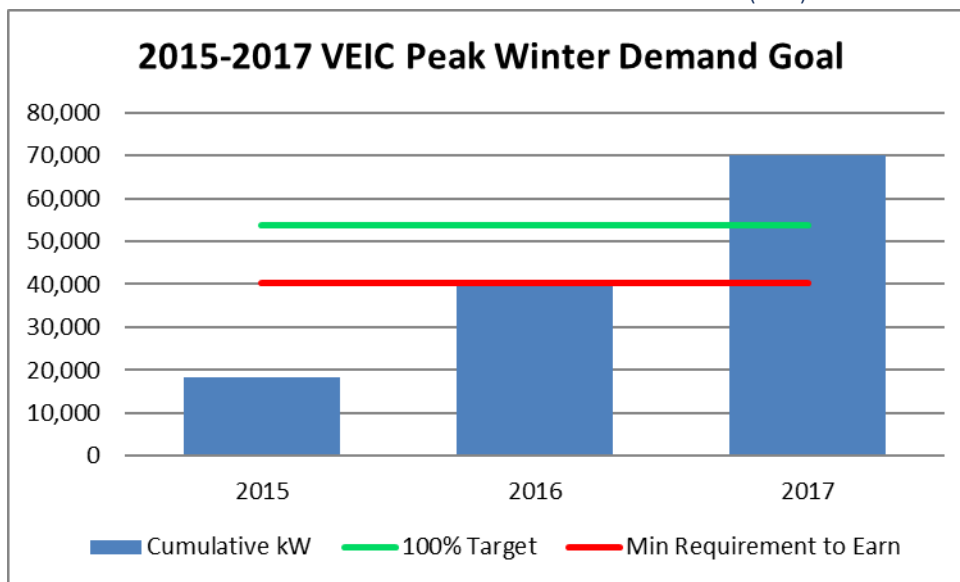
The above graph represents the total resource benefits for each of the tracked years. The totals are cumulative over the performance period. In this case EVT achieved 96% of its required target.

EEC PI #3: SUMMER PEAK DEMAND SAVINGS (kW)



The above graph represents the summer electrical demand capacity achieved for each of the tracked years. The totals are cumulative over the performance period. In this case EVT achieved 110% of its required target.

EEC PI #4: WINTER PEAK DEMAND SAVINGS (kW)



The above graph represents the winter electrical demand capacity achieved for each of the tracked years. The totals are cumulative over the performance period. In this case EVT achieved 130% of its required target.