

January 31, 2018

Energy Action Plan

Mount Ascutney Hospital and Health Center

Mount Ascutney Hospital staff have been actively pursuing energy efficiency opportunities since the last Energy Action Plan was submitted in 2014. The primary goal at that time was to increase the ENERGY STAR score from 57 to 75 through various efficiency projects. A score of 75 will qualify the hospital to apply for certification as an ENERGY STAR Hospital. In 2014 we presented a list of completed projects as well as upgrade projects. Attached is a report from Efficiency Vermont showing our completed projects with estimated costs and savings by project from 2014 to date. As a result of the lighting, hvac and controls work that we have completed, we are proud to report that our ENERGY STAR score is now at 83 and we await certification from ENERGY STAR to be able to make this announcement public. 83 is the highest score achieved by a Vermont hospital to date.

We continue to work towards improved efficiencies in both the hospital and the Professional Office Building (POB) including:

- **Lighting upgrade with 2 x 2 fixtures:** This project is ~65% complete in the hospital and 10% complete in the POB. We are implementing this project using Efficiency Vermont incentives and our own staff.
- **Central Cooling Plant Upgrade:** This is a long term plan to convert our distributed cooling system to a central system. We have the chiller installed and approximately 10% of the hospital converted to chilled water. We are in design for a 10 year implementation plan to convert the remainder of the hospital. We are also working with our engineer to optimize our chiller operation now as it operates on partial load, awaiting more of the hospital to be converted from DX air conditioning to chilled water.
- **Hydronic heating plant upgrade:** We have completed design and will be installing a new, efficient heating plant in 2018.
- **Operating Room Airflow Setback Controls:** We are replacing the cooling system to the ORs to the chilled water system and will implement airflow vacancy setbacks as part of this project. Summer 2018.

Sincerely yours,



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Mount Ascutney Hospital and Health Center Savings and Incentives Reported by Project: 1/1/2014 to 1/25/2018							Annual Savings		
Project Description	EVT Project Number	Year Savings/ Incentives Reported	Project Cost*	Incentive	Resource Savings \$	kWh	MMBTU		
Mount Ascutney Hospital - HVAC Audit	6012-V602	2014	\$19,500	\$9,750	\$0	0	0		
Mount Ascutney Hospital and Health Center - LEDs Rear Parking	6012-Y777	2014	\$27,179	\$12,279	\$2,833	33,555	0		
Mount Ascutney Hospital - New Rehab Space - Renovation	6014-W677	2015	\$133,169	\$21,200	\$21,440	97,922	334		
Mount Ascutney Hospital - SkySpark Data Analytics Prof Bldg	6012-AC21	2016	\$13,140	\$2,190	\$12,223	84,979	0		
Mount Ascutney Hospital and Health Center - Replace DX w/chiller	6012-BP68	2016	\$5,000	\$1,000	\$962	5,301	0		
Mount Ascutney Hospital and Health Center - Chiller piping rcx	6012-BT05	2016	\$5,748	\$2,874	\$4,194	45,554	0		
Mount Ascutney Hospital - SkySpark Rogue VAV box remediation	6012-CB79	2016	\$1,280	\$1,280	\$296	1,200	9		
Mount Ascutney Hospital - SkySpark Data Analytics and Controls	6012-Y268	2017	\$74,370	\$18,385	\$37,579	136,802	1,420		
Mount Ascutney Hospital & Health Center - 2 x 2 Lighting Upgrades	6013-DY00	2017	\$16,198	\$12,816	\$6,980	54,021	(44)		
Mount Ascutney Hospital & Health Center- 2 x 2 Lighting Upgrades	6013-EF88	2017	\$12,355	\$14,400	\$7,834	60,627	(49)		
<b>Totals:</b>			<b>\$307,940</b>	<b>\$96,174</b>	<b>\$94,341</b>	<b>519,961</b>	<b>1,670</b>		

\*For New Construction and Market Opportunity projects this is the estimated or incremental cost.

**Yearly Savings for  
Mount Ascutney Hospital and Health Center**

Year Reported	kWh Savings	Resource Savings \$
2014	33,555	\$2,833
2015	141,455	\$27,640
2016	93,501	\$11,476
2017	251,450	\$52,393
<b>Total:</b>	<b>519,961</b>	<b>\$94,341</b>