



Rutland Regional Medical Center - Energy Action Plan (FY 2015)

Purpose: To reduce operational cost savings, improve building comfort & performance, improve the patient care experience, and reduce our environmental impact.

Current: Annual energy costs (baseline): \$ 2,671,136 Annual energy use per square-foot: 293 kbtu

Goals: Reduce energy costs by 8%: \$ 213,691 Reduce energy use per sq-ft by 8%: 269 kbtu

Team: Mary Nemeth, Jim Greenough, David Adams (EVT), Brad DeBoer (EVT), Jennifer Chiodo (Cx Engrs)



Signed: *David Adams*

David Adams - Staff Manager, Account Management

Action Plan		Completed Efforts / 2011 - Present						
Project Description	Project Costs	Annual Savings	Date	Proj. Costs	Incentives	Annual Savings	kWh Reduce	MMBTU
1. Optimization of building HVAC systems	\$ 49,050	\$ -	Jan11	\$ 36,790	\$ 6,200	\$ 5,452	67,967	(69)
Aug14 Energy Audit conducted by Cx Associates (RRMC/EVT to cost share)			Jan11	\$ 78,939	\$ 19,800	\$ 2,318	30,962	-
Dec14 Rutland East AHUs 1&2 - potential fan retrofits and controls upgrades			Apr11	\$ 36,054	\$ 7,500	\$ 17,738	22,628	535
Mar15 Central chiller plant - improve controls strategy			May11	\$ 33,686	\$ 7,300	\$ 4,681	40,099	(84)
Apr15 Data center - cooling and ventilation upgrades			Jul11	\$ 33,660	\$ 16,000	\$ 3,389	31,707	0
May15 Sterile process AHU - improve performance & operational issues			Aug11	\$ 32,000	\$ 3,200	\$ 34,659	148,643	1444
Jul15 Labs & MRI - build & implement plan for cooling redundancy			Nov11	\$ 10,094	\$ 4,769	\$ 4,155	44,231	(34)
2. Pursue targeted upgrades of lighting to LEDs w/ aggressive controls			Dec11	\$ 49,500	\$ 10,000	\$ 19,097	210,423	0
Sep14 Canopy lighting to LED			Jun13	\$ 6,715	\$ 1,500	\$ 1,434	15,241	(13)
Oct14 Conduct lighting audit of targeted spaces for potential upgrades/controls			Jan14	\$ 109,350	\$ 36,900	\$ 99,008	38,034	6,169
4. Hospital renovation projects			Feb14	\$ 34,931	\$ 10,000	\$ 3,644	46,016	0
Jun14 3 North & Sleep Center Improvements			Totals:	\$ 461,719	\$ 123,169	\$ 195,575	695,951	7,948
Sep14 DI Core - including VAV box scheduling	\$ 13,614	\$ 10,000	Results & Energy Star Impacts					
Jul16 Emergency Department - waiting for CON								

Project Description	Project Costs	Annual Savings
Exit Sign LEDs	\$ -	\$ -
Parking lot lighting - LED (Phase I)	\$ 49,050	\$ -
Kitchen Hood System	\$ -	\$ -
DI Unit/56	\$ -	\$ -
Heat exchange system	\$ -	\$ -
HVAC - Controls	\$ -	\$ -
OR - Central Sterile Server Virtualization	\$ -	\$ -
PIU Renovation	\$ -	\$ -
CNG Conversion	\$ -	\$ -
Parking lot lighting - LED (Phase II)	\$ -	\$ -
Totals:	\$ 79,014	\$ 10,000

- Engage IT staff for EE opportunities
 - Mar15 Discuss feasibility of PC power management across hospital devices
 - Aug14 Explore data center EE opportunities
- Explore thermal shell improvements
 - Sep13 Thermal audit conducted by Infrared Analyzers (cost share w/EVT)
- Employee engagement through energy workshops & campaigns
 - Nov14 Host a Kaizen event to focus on energy waste in targeted hospital areas
 - Apr15 Launch Employee Energy Challenge - Round 2
- Build efficiency into operations & maintenance practices and new designs
 - Jul14 Investigate kitchen equipment upgrades to Energy Star
 - Sep14 Development of Energy Policy for Maintenance, Engineering & Housekeeping
 - Nov14 Consider use of SkySpark as a facilities management tool