



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

Signed: *Mary Nemeth, VP*
Mary Nemeth, VP Support Services

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 Costs	Annual Savings	Project Description	Date	Proj. Costs	Incentives	Annual Savings	kWh Reduce	MMBTU
1. Optimization of building HVAC systems			Exit Sign LEDs	Jan11	\$ 36,790	\$ 6,200	\$ 5,452	67,967	(69)
Aug14 Energy Audit conducted by Cx Associates (RRMC/EVT to cost share)	\$ 49,050	\$ -	Parking lot lighting - LED (Phase I)	Jan11	\$ 78,939	\$ 19,800	\$ 2,318	30,962	-
Dec14 Rutland East AHUs 1&2 - potential fan retrofits and controls upgrades			Kitchen Hood System	Apr11	\$ 36,054	\$ 7,500	\$ 17,738	22,628	535
Mar15 Central chiller plant - improve controls strategy			DI Unit/S6	May11	\$ 33,686	\$ 7,300	\$ 4,681	40,099	(84)
Apr15 Data center - cooling and ventilation upgrades			Heat exchange system	Jul11	\$ 33,660	\$ 16,000	\$ 3,389	31,707	0
May15 Sterile process AHU - improve performance & operational issues			HVAC - Controls	Aug11	\$ 32,000	\$ 3,200	\$ 34,659	148,643	1444
Jul15 Labs & MRI - build & implement plan for cooling redundancy			OR - Central Sterile	Nov11	\$ 10,094	\$ 4,769	\$ 4,155	44,231	(34)
			Server Virtualization	Dec11	\$ 49,500	\$ 10,000	\$ 19,097	210,423	0
2. Pursue targeted upgrades of lighting to LEDs w/ aggressive controls			PICU Renovation	Jun13	\$ 6,715	\$ 1,500	\$ 1,434	15,241	(13)
Sep14 Canopy lighting to LED			CNG Conversion	Jan14	\$ 109,350	\$ 36,900	\$ 99,008	38,034	6,169
Oct14 Conduct lighting audit of targeted spaces for potential upgrades/controls			Parking lot lighting - LED (Phase II)	Feb14	\$ 34,931	\$ 10,000	\$ 3,644	46,016	0
4. Hospital renovation projects			Totals: \$ 461,719 \$ 123,169 \$ 195,575 695,951 7,948						
Jun14 3 North & Sleep Center improvements			Results & Energy Star Impacts						
Sep14 DI Core - including VAV box scheduling	\$ 13,614	\$ 10,000	<p style="text-align: center;">^ kBtu per square-foot</p> <p style="text-align: center;">Energy Star score →</p>						
Jul16 Emergency Department - waiting for CON									
5. Engage IT staff for EE opportunities									
Mar15 Discuss feasibility of PC power management across hospital devices									
Aug14 Explore data center EE opportunities									
6. Explore thermal shell improvements									
Sep13 Thermal audit conducted by Infrared Analyzers (cost share w/EVT)	\$ 16,350								
7. 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									
8. 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									
	\$ 79,014	\$ 10,000							