



Springfield Hospital - Energy Action Plan (2014)



Purpose: To reduce operational cost, improve building comfort & performance, improve the patient care experience, and reduce our environmental impact through becoming **the first** Vermont hospital to achieve Energy Star designation.

Current: Annual energy costs (baseline): **\$ 540,000** Annual energy use per square-foot: **193** kBtu

Goals: Reduce energy costs by rate of inflation: **TBD** Reduce energy use per sq-ft by **5%**: **9.7** kBtu

Signed: *Mark Blanchard*
Mark Blanchard, Director of Engineering

Team: Mark Banchard (SH), Tim Ford (SH), Chad Thurston (SH), Scott Whittemore (SH), Chuck Clerici (SH), Brad Deboer (SH)

Signed: *Chuck Clerici*
Chuck Clerici, Senior Account Manager

Action Plan		kWh	Gal #4
1. Optimize lighting		125,000	
Sep14 Full facility lighting audit			
Dec14 Develop lighting retrofit scope			
Jan15 Determine funding mechanism for project			
Jan-15 Dedicate funding to project			
Jun-15 Implement project			
2. Optimize end-use HVAC system, components, and controls		100,000	2,000
Oct-14 Draft RFP to solicit commissioning agents for hospital environment			
Mar-15 Commissioning study completed, capital projects into 2016 budget			
Sep-16 Implementation of projects outlined in study			
ongoing Verify operational control strategies and scheduling for HVAC systems			
3. Optimize all exhaust fans		20,000	
Jan15 Implement exhaust fan controls for kitchen exhaust hood			
Jan15 Review all other exhaust penetrations from building for control options			
Dec-14 Co-invest in power logger to develop accurate energy baseline for equipment			
4. Engage Staff		20,000	
Apr-15 Educate Staff on energy conservation and efficiency opportunities			
Apr-15 Review plug loads and potential for controls			
Jul-15 Turn it off campaign			
5. Install Solar Domestic Hot Water			9,000
May-16 Engineering & Plan appropriate system			
Jun-16 Project cost-benefit analysis			
6. Separate Steam for Sterilization from Boiler System			13,500
Dec-14 Review baseline load			
Apr-15 Develop plan options to separate sterilization load			
May-15 Project cost-benefit analysis			
Totals:		265,000	25,000

Completed Efforts - 2013/4					
Project Description	Date Completed	kWh	Gal #4 saved	Incentive	
Springfield Hospital - Rx Lighting 10	6/18/2014	6,996		\$ 1,500	
Springfield Hospital - Rx Lighting 9	2/12/2014	1,339		\$ 820	
Springfield Hospital - Rx HVAC 2	1/22/2014	2,095		\$ 1,080	
Springfield Hospital - Dishwasher	1/14/2014	5,805	1,214	\$ 5,000	
Springfield Hospital - Rx Lighting 8	10/21/2013	3,724		\$ 900	
Springfield Hospital - Rx Lighting 7	7/17/2013	1,343		\$ 250	
Springfield Hospital - Rx Lighting 6	4/22/2013	1,371		\$ 250	
Springfield Hospital - New Chiller & Condensate Pump	1/14/2013	17,690		\$ 3,000	
Totals:		40,363	1,214	\$ 12,800	-

