



Fanny Allen Hospital - Energy Action Plan (2014)



Purpose: To reduce operational cost savings, improve building comfort & performance, improve patient experience, be an effective steward of resources, and reduce our environmental impact.

Current: FY13 electricity cost: **\$805,371** FY13 gas cost: **\$252,187**
 FY13 kWh consumption: **3,084,807** FY13 ccf consumption: **123,034**

Goals: Reduce our overall energy load at Fanny Allen and the Medical Center Campus by 1,000,000 kWh and 150,000 ccf

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Submitted by: Wes Pooler, Director of Facilities Management

Reviewed by: Timothy Perrin, Account Manager

Action Plan FY14 & FY15			Completed Efforts FY 13 & FY14						
			Project Description	Date	Proj. Costs	Incentives	Annual	kWh Reduce	ccf Reduce
1. Chiller Plant Optimization - Evaluate cooling tower fans/VFD - Evaluate sequence of operations in the chilled water system - Evaluate chiller controls			Exterior Wall pack Lighting Upgrade	Feb13	\$ 2,975	\$ 2,100	\$ 1,731	3,186	
			Steam Trap Replacement	Sep13	\$ 20,827		\$ 22,940	N/A	59,747
			Lighting Upgrade - Phase 1	Jun14	\$ 99,506	\$ 16,770	\$ 6,004	59,111	
			LED Fixtures	Jun14	\$ 100,000	\$ 31,000	\$ 11,000	113,000	
2. Boiler Plant Optimization - Evaluate combustion management controls - Evaluate a process boiler in order to minimize gas consumption - Replace steam traps			Energy Audit (Cornerstone Cx)	Feb14	\$ 24,000	\$ 16,000	N/A	N/A	N/A
3. Improve the building envelope - Replace windows and doors where necessary and feasible									
4. Lighting Upgrades - Upgrade interior lighting to LED technology - Upgrade exterior lighting to LED technology									
			Totals: \$ 247,308 \$ 65,870 \$ 41,675 \$ 175,297 \$ 59,747						
5. Lighting Controls / Energy Management System Upgrades - Evaluate opportunities for improved lighting controls - Evaluate and institute off-hours setbacks on HVAC systems			Total Energy Use per Square-Foot						
6. Building Management System Upgrade - Evaluate and program Honeywell controls system to maximize efficiencies									
7. Upgrade or optimize HVAC systems - Evaluate potential for night setbacks									
8. Operating Efficiencies - Coil cleaning - Filter changes - Evaluate UV technology for air systems									

