

Gifford Medical Center - 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: Annual energy costs (baseline):

Goals: Reduce energy costs by X%:

\$ 683,171 Annual e

\$ 47,822

Annual energy use per square-foot:

203 kBtu

Reduce energy use per sq-ft by 7%:

189 kBtu

Signed:

Timothy Perrin, Senior Account Manager

Efficiency Vermont

Signed:	1/4//	
7	Daug Pfohl. Director of Facilities	

Action Plan				Completed Efforts (2011-13)								
	<u>Lead</u>	Pro	oject Costs	Project Description	Date	Pro	j. Costs	Incen	tives	Annual Savings	kWh Reduce	gal Reduce
1. Optimization of building HVAC systems	D.Pfohl			Screw-base LED lighting	Feb11	\$	6,944	\$	5,550	\$ 7,388	50,232	
$\sqrt{}$ Mar14 Balancing of air-side HVAC systems to ensure proper distribution & pressures		\$	30,000	Server virtualization	Apr11	\$	7,920	\$ 1	L,200	\$ 2,309	23,347	
Aug14 Conversion of MOB constant-volume systems to variable-air-volume		\$	79,000	Occupancy sensors	Aug11	\$	5,501	\$ 3	3,000	\$ 3,240	29,332	
Dec14 Study operation of run-around heat recovery to determine upgrade potential				Energy audit - LN Consulting	Jul12	\$	35,500	\$ 23	L,983			•
				MOB - 1st floor VAV conversion	Aug12	\$	3,440	\$	L,000	\$ 703	8,120	
				Kitchen exhaust fan controls	Dec13	\$	54,483	\$ 6	5,000	\$ 27,807	81,467	6,866
2. Optimize lighting, IT systems, and plug loads across campus				LED parking lot lighting	Dec13	\$	28,608	\$ 12	2,000	\$ 6,927	50,273	
Jul14 Explore lighting audit for targeted applications across hospital	D.Pfohl	\$	2,000									
Aug14 Pilot use of plug-load controllers to determine deployment opportunities												
2. Ungrade of chilled water plant systems	D.Pfohl				Totals:	Ć 1	12 206	¢ 5′	1 722	\$ 48,374	242,771	6,866
3. Upgrade of chilled water plant systems	D.Pfont	,	240 705		Total Enei					7 40,574	242,//1	. 0,600
Sep14 Purchase and installation of new chiller		\$	340,795	 	TOTAL ENER	gy U	se per s	quare-	-001			
Sep14 Installation of eGauge power submetering to monitor chilled water systems				250			_					
Oct14 Commissioning of chilled water systems for optimized performance				240								
<u> </u>												
4. Analyze use of waste heat to supplement hot water loads				230								
Flow monitoring of domestic hot water loads				220					•			
Flow Monitoring of domestic not water loads				oot								
		+		¥ 210 								
5. Build operations and maintenance practices to reduce energy use				200 denbs	<u> </u>							
Build a cross-departmental Energy Team and kickoff regular meetings												٨
Hold an informational seminar for hospital employees				້ອ 190 							Go	al 💢
Establish policies to reduce energy consumption for lighting systems				型 180 								
Verify operational control strategies and scheduling for HVAC systems				五 100								
Establish purchasing specifications for energy efficient equipment				170								
Establish purchasing specifications for energy efficient equipment				160	•							
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	Totals:	\$	451,795		, 7	•	*	•	- '	` '		7