



Marriott
HARTFORD DOWNTOWN

Marriott Hartford Downtown

Energy & Savings

September 29, 2011

Energy Saving Program

How are you billed and charged for energy consumed?

- Natural Gas
- Electricity
- Chilled Water
- Steam
- Energy Management System (EMS)

Limited to No Cost Items

Consider these no-cost and quick turnaround items:

1. Post a “Did you Know” Board with Cost savings
2. Identify lights throughout the building that can be shut
3. Turn off computer and office equipment
4. Set the temperature 6 to 10 degrees lower
5. Encourage staff and night cleaner to turn lights off/on
6. Housekeeping to follow Green Programs with guest linen and terry
7. Work with local utilities for savings
8. Reduce hot water consumption
9. Refrigerated Vending Machines

Limited to No Cost Items (continued)

Consider these no-cost and quick turnaround items:

10. Develop signage to indicate lights should be turned off when area unoccupied
11. Set a standard for window treatment position
12. Ensure all plumbing fixtures operate properly
13. Sign up for energy efficiency news programs for daily tips
14. Walk your building and develop energy action plan:
 1. Reduce consumption
 2. Improve efficiency
 3. Develop new operating procedures
 4. Walk with managers to give examples.

Kitchen Maintenance and Operation

Maintenance Kitchen:

- Calibrate Oven and Broiler controls
- Clean Burners to maintain efficiency
- Clean and polish heat reflector

Equipment Operation Kitchen:

- Only operate food warmers when needed
- Reduce temp on grills, fryers, ovens during standby times
- Don't pre-heat ovens, broilers and grills unless necessary
- Thaw frozen items in refrigerators
- Use microwaves
- Minimize use of open flames
- Use proper size pots and skillets with correct lids

Maintenance Engineering-Kitchen

- Clean condenser and evaporator coils regularly
- Install vinyl curtains in walk-ins and freezers
- Change water filters on ice machines regularly
- Repair faucet leaks as required
- Install flow restrictors on faucets
- Drain Water heaters to prevent/remove mineral deposits
- Ensure kitchen supply and exhaust systems operate properly-heat and humidity from dishwasher
- Shut down kitchen hoods after kitchen is closed
- Inspect all door seals on refrigerated equipment

Engineering Lighting/Equipment

- Use automated lighting controls when/where possible
- Ensure photo cells operate properly
- Install motion sensors in low/limited traffic areas
- Reduce lighting levels
- Regularly clean lamps (reflectors) and consider installing reflectors
- Replace broken fixtures with low wattage/energy efficient lamps
- Motor belt adjustments and replacements
- Clean condenser coils
- Clean evaporator coils
- Clean filters for 2 reasons: improves air quality and protects down stream components
- Maintain fans
- Maintain motors
- Maintain outside air dampers.

Energy Savings Program

Please Shut Off Ironer When Not in Use

Clean Air Filter Once Per Day

*Thank you,
Executive Housekeeper*

Energy Savings Program

Please Clean Lint Filters Twice Per Day

*Thank you,
Executive Housekeeper*

Energy Savings Program

***Please Shut Off All Lights
When You Close Kitchen***

*Thank you,
Chef*

Energy Savings Program

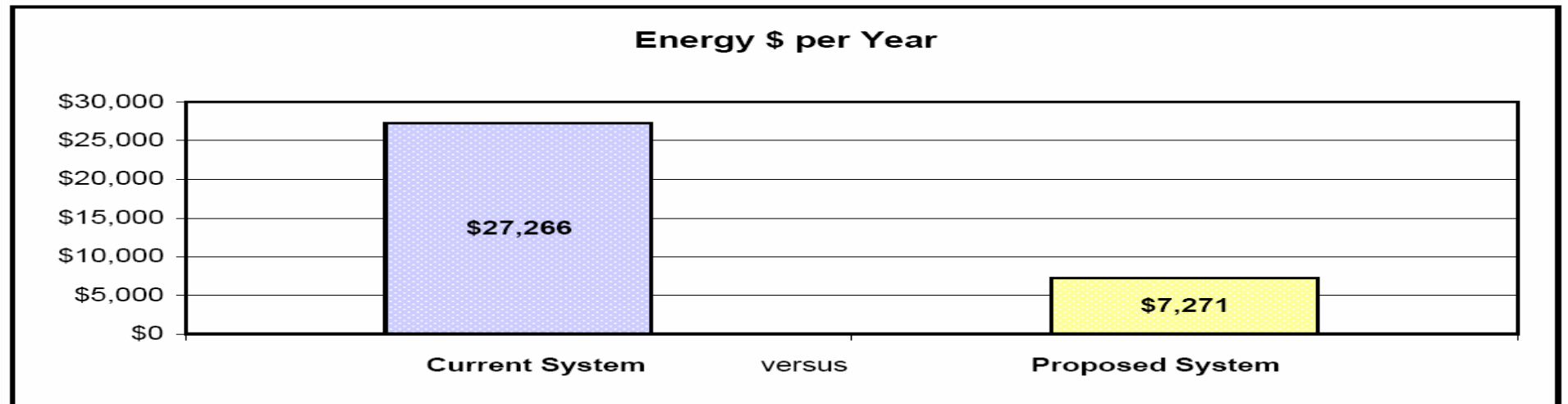
***Please Close All Drapes And Shut Off
Lights In Meeting Rooms When
Not in Use***

*Thank you,
F & B Director*

Calculate the energy costs associated with existing and proposed lighting systems.
Click on the first green cell and tab to the other input cells. Note graph at bottom of page.

Instructions		INPUT			
Number of Fixtures	664	Hours burned per year	3650	Cost per kWh \$	0.15
Watts per Fixture (Current System)	75	Watts per Fixture (Proposed System)	20		
OUTPUT					
Energy used per yr. (Current System)	\$27,266	Energy Savings per yr. (entire site)	\$19,995		
Energy used per yr. (Proposed System)	\$7,271	Energy Savings per year (each fixture)	\$30.11		
TIME TO RECOVER INVESTMENT					
Use GE's value*light ® tool to calculate true payback including labor avoidance, A/C savings, etc.. However, to get a quick estimate of how long it will take-- from energy savings alone -- to recover the investment, go the the "NEXT STEP" below:					
NEXT STEP: Enter the amount needed to upgrade each fixture →	INPUT: Investment to upgrade (per fixture)	\$21.37	OUTPUT: Energy Savings alone will recover investment in	9 months	

Customer: **Marriott Hartford@ 4 hours per day only**
Prepared by:



Potential Savings: \$19,995 per year

The Lighting Assistant is a tool offered by GE that examines the projected impact of lighting decisions. Neither this tool nor the analysis generated by this tool, in any way constitutes or implies either a warranty of lamp or ballast performance or a guarantee of the actual costs or savings that will be realized or the appropriateness of the solutions suggested. Kindly see and examine the Full Disclaimer; use of this tool constitutes your acceptance of the Full Disclaimer. Copyright © 2005 General Electric Company. All Rights Reserved.



Marriott Hartford Downtown

2011 Energy Plan for Action Worksheet

Item	Conservation Plans	Implement Date	Owner	Cost to Implement	Type of energy Saved	Consumption Savings kWh, Therms, Gals	Consumption Savings \$
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
Total:				\$0		0	\$0



Inspiring the World through Green Meetings

Marriott International aspires to be the global leader that demonstrates how responsible hospitality management can be a positive force for the environment and create economic opportunities around the world, in the communities where we work and live!

Marriott Hotels and Resorts

- Replaced light bulbs with energy-efficient bulbs
- Installed low-flow showerheads and toilets
- Introduced water/energy saving linen program
- Operates the most ENERGY STAR® certified properties in the industry, as part of Marriott's portfolio of brands
- Involves its global workforce in eco-volunteerism

Meetings and Events

- 100% Recycled Note Pads
- Pens made from Recycled materials
- 100% Recycled Napkins
- Eco-Friendly Water Service Stations and Pitchers
- Meeting Room Recycling, where available
- On-Line Event Menus
- Organic Flowers (upon request)
- Recyclable Box Lunch Program
- Sales kits, Event Menus and BEO's available through internet
- Audiovisual partner follows green practices

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- Partner with CL&P Demand Response Reduction Program
- Green committee in place to develop, track and manage all programs
- Office paper, plastic, cans, cardboard, newspaper, magazines and glass are recycled
- Uses only post-consumer paper
- Water conserving 1.6gpf toilets in all guest rooms
- Motion sensor and timed light switches in all offices and storage rooms
- Sensors and water conserving faucets in all public restrooms
- Heat sensors that regulate heat and air conditioning in guest rooms
- Florescent lighting throughout meeting areas
- Starbucks uses recyclable cups from post consumer paper
- Sensors and water conserving faucets in all public restrooms
- Paperless registration

Learn about Marriott's green programs by visiting marriott.com/environment

Contact us to make your next meeting green.



Please consider the environment
before printing this document

Marriott
HOTELS & RESORTS