

EMBASSY SUITES

Lake Tahoe

Sustainability Program

“to be the first choice of the
world’s green traveler”





ENERGY REDUCTION

Embassy Suites Energy Reduction in 2009



**ELECTRICITY REDUCED BY
\$269,000**

FUEL REDUCED BY \$99,000

**\$33,000 WASTE
REDUCTION**

**TOTAL SAVINGS 2009 -
\$401,000**



A system for controlling the rotational speed of an alternating current (AC) electric motor by controlling the frequency of the electrical power supplied to the motor.

-Two 30 hp Cooling Tower Fan Motors

-One 75 hp Condenser Pump

-One 15 hp Chilled Water Pump

-\$6,750 Rebate

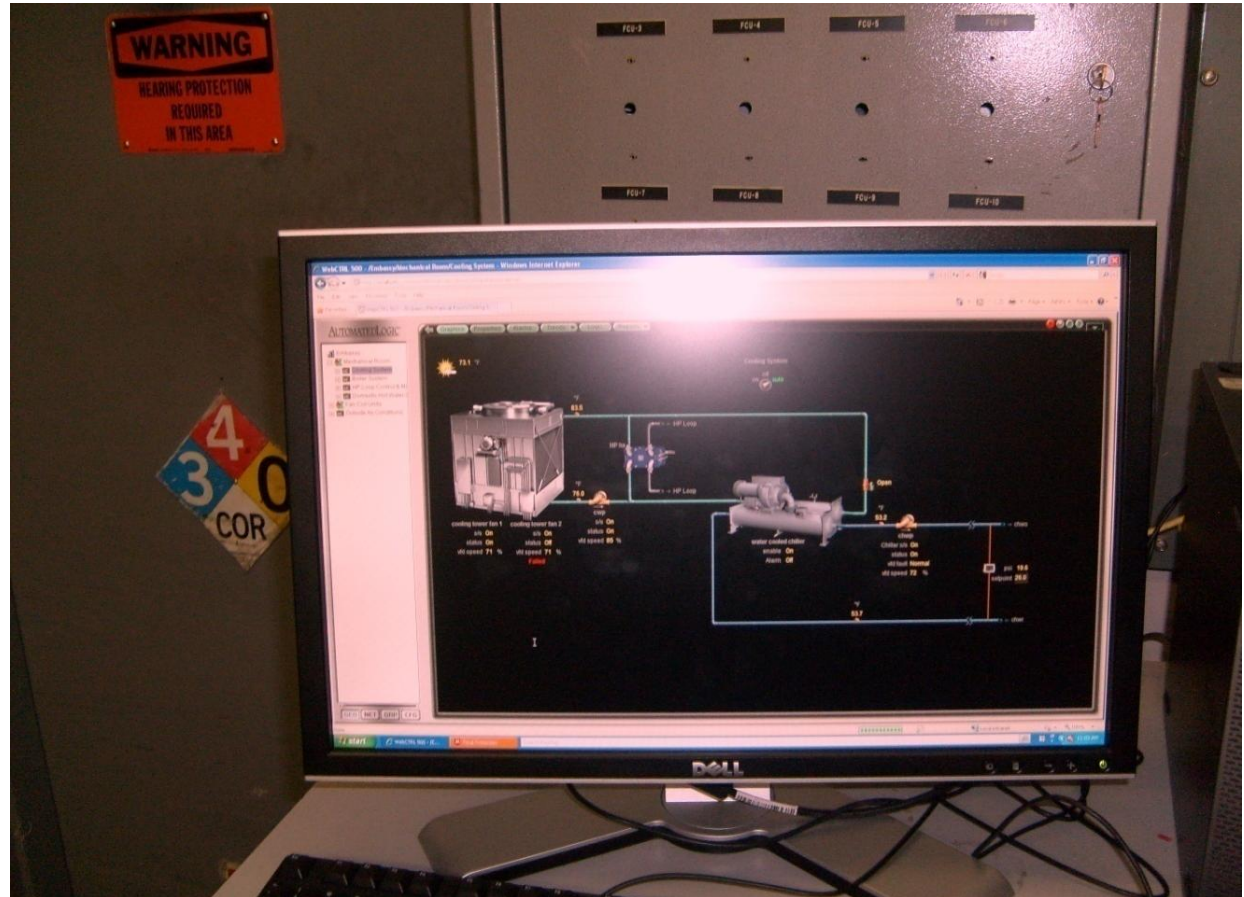


VARIABLE FREQUENCY DRIVES

A computer system which is designed specifically for the automated control and monitoring of the heating, ventilation and lighting needs of the building.

- Set schedules for heating and cooling based on occupancy

- monitor and adjust outside air flow with the use of motorized dampers



Energy Management Systems



Occupancy Sensing Thermostats

All 400 suites have programmable occupancy sensing thermostats.

A door switch activates a motion detector and passive infrared sensor.



Occupancy Sensor

A motion detector and passive infrared sensor are placed in the bedrooms which communicate back to the thermostats located in the parlor.






We have added 30 occupancy sensors for lighting control in all of our maids closets, offices and back of the house areas.

\$600 rebate



Occupancy Sensors for Lighting



The hotel is currently testing Green Switch in a few suites in an effort to pinpoint an ROI on this product. Green Switch saves energy consumption by turning off the power to certain outlets and lighting in the suites when the guest leaves for the day.



GREEN SWITCH



We replaced
165 40 watt
incandescent
exit lights
with 1 watt
LED lights.

\$3,080 rebate



LED LIGHTING



Garage Lighting

The hotel replaced a total of 80 garage lighting fixtures with LED lighting.






The Embassy
Suites
Removed over
300 lights
from around
the hotel that
were not
necessary.



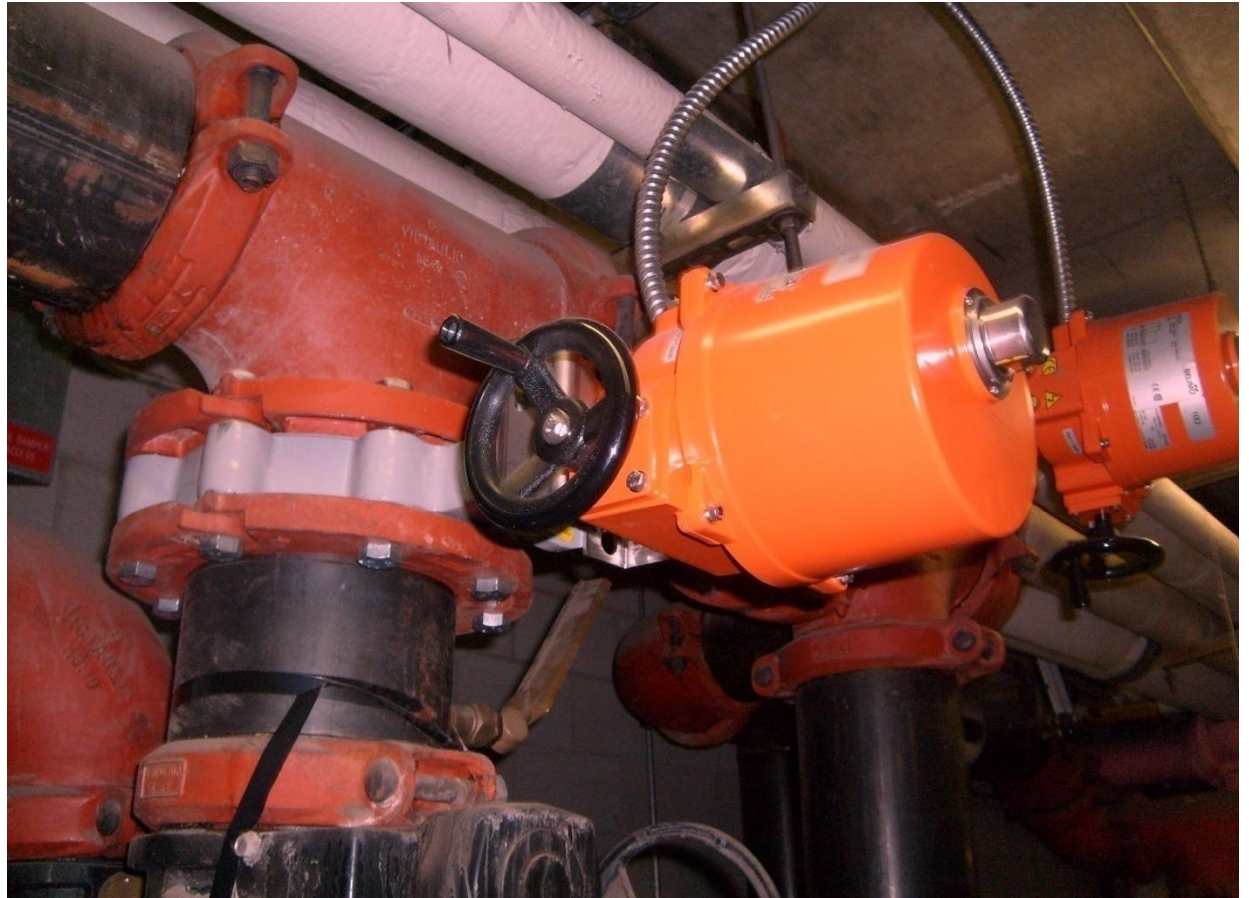
**REDUCED
LIGHTING**



We replaced all pneumatically operated valves on our cooling system with DDC low voltage control valves.

Pneumatics didn't provide the pinpoint accuracy needed.

This minor change has resulted in huge savings in fuel consumption.



DDC Three Way Valve

\$12,921 rebate for correcting construction defect

Piping relocated to condenser loop for Heat Pump in phone room.



Heat Pump was originally piped into chilled water loop – chill water pump had to run 24/7



BENEFITS

- No hot water
- Softer Linens
- Less Spin Cycle time
- Less Dry time
- Longer linen life – cycle
- No bleach

Huge savings in
electrical and fuel
consumption

\$4,377 rebate



OZONE LAUNDRY SYSTEMS



OZONE LAUNDRY SYSTEM



**The Embassy Suites Lake Tahoe
washes approximately 120,000
pounds of laundry per month**



		Date	October 15, 2009
Pay To The Order Of	Embassy Suites Hotel		\$ 27,727.20
Twenty Seven Thousand Seven Hundred Twenty Seven & 20/100 Dollars			
Blue is Lake Tahoe, Green is the Embassy		NV Energy	
Memo	0000000000001234A56B78C		

Energy Saving Tips



- Turn off computers and monitors
- Reduce lighting
- Install occupancy sensors for office and back of the house lighting
- Install timers on kitchen hoods so they are off when not in use
- Install energy efficient lighting
- Replace air filters regularly

Energy Saving Tips



- Install programmable, occupancy sensing thermostats
- Install Variable Frequency Drives
- Install an Energy Management System
- Install Energy Tracking Software
- Replace Pneumatic controls with DDC low voltage controls
- Install Solar Panels
- Install Fuel Cells



COMPOSTING

A busser at
the Embassy
Suites
separates
food waste
for
composting.






Storage of food waste to be taken to Full Circle Compost.

South Tahoe Refuse hauls 4 cubic yards per week of Embassy Suites food waste to Full Circle Compost.



COMPOSTING



Compost
Farm
located
in the
Carson
Valley.



FULL CIRCLE COMPOST



Full Circle Compost delivering Elite Essence soil back to our property.

It takes approximately 10 weeks for our food waste to be turned back into a nutrient rich soil amendment.



THE FULL CIRCLE



The Embassy Suites recycles approximately 20 cubic yards of cardboard per week.



Cardboard Recycling



COMPOSTABLE PRODUCTS

Plant based containers.

All food-to-go containers used at the Embassy Suites are made of compostable plant based products.



Plant Based Containers

Compostable plant based containers used in complimentary breakfast area.



Compostable Trash Bags

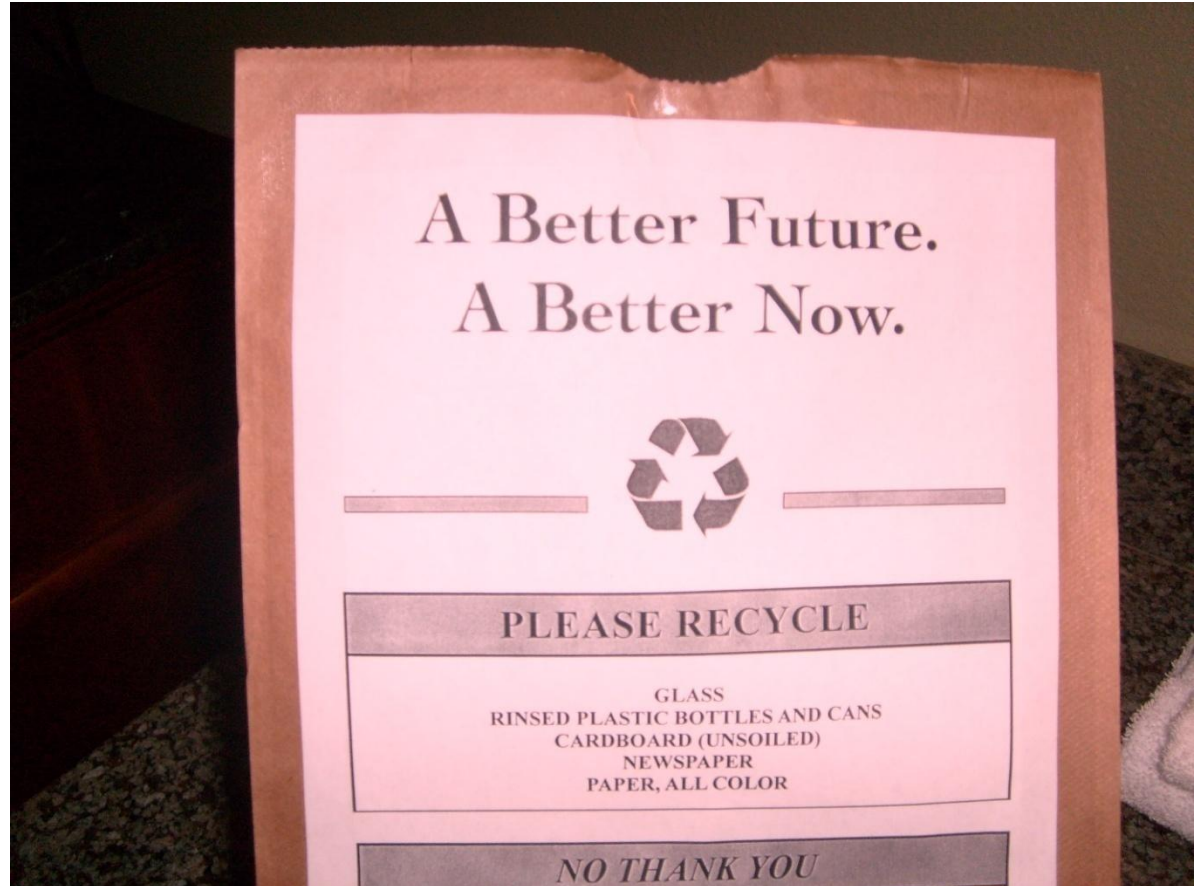
All food
waste goes
into
compostable
trash bags.






RECYCLING

Recycle
Bags are
placed in
guest suites
to allow
guests to
participate
in
recycling.





The Embassy Suites recycles aluminum cans, plastic, and glass bottles. The money is used to help offset the cost of purchasing compostable products.




ALUMINUM CAN RECYCLING

TRAINING STAFF TO RECYCLE

- aluminum
- plastic
- glass
- cardboard
- paper
- toner cartridges





Recycle Bins
are
strategically
placed
throughout
the hotel so
that guests
may take part
in our
sustainability
program.



RECYCLE BINS



The Embassy Suites recycles approximately 2 cubic yards of office paper per week.



OFFICE PAPER RECYCLING

BIO-FUEL

All of the used cooking grease from the Embassy Suites is sent to Reno Rendering where it is processed and sold as bio-fuel.



ZERO WASTE EVENTS



What is a Zero Waste Event?



**A ZERO WASTE EVENT IS ANY
FUNCTION, MEETING, BANQUET
EVENT OR GATHERING THAT
LEAVES A MINIMAL AMOUNT OF
WASTE.**

**EXAMPLES OF WASTE ARE
LEFTOVER FOOD, CONTAINERS,
TRASH BAGS, STATIONARY,
CANS, BOTTLES, BOXES ETC...**



COMMUNITY LEADERSHIP

Sustainability Info Board

The Embassy Suites posts latest information on sustainability program and what employees can do to help the environment.



FREE CFL's

Employees of the Embassy Suites each receiving a 12 pack of compact fluorescent bulbs for their homes. Compact fluorescent lighting provided by NV Energy.





The Embassy Suites is currently collecting recyclable plastic bins to be turned into recycling containers for use around the community.



Turning recycled plastic containers into recycling containers.

Tahoe Paddle Fest '09

A
celebration
of non-
motorized
watercraft.





TAHOE PADDLE FEST '09

The Embassy Suites sponsored the 2009 Tahoe Paddle Fest by managing the Zero Waste aspect of the festival.

