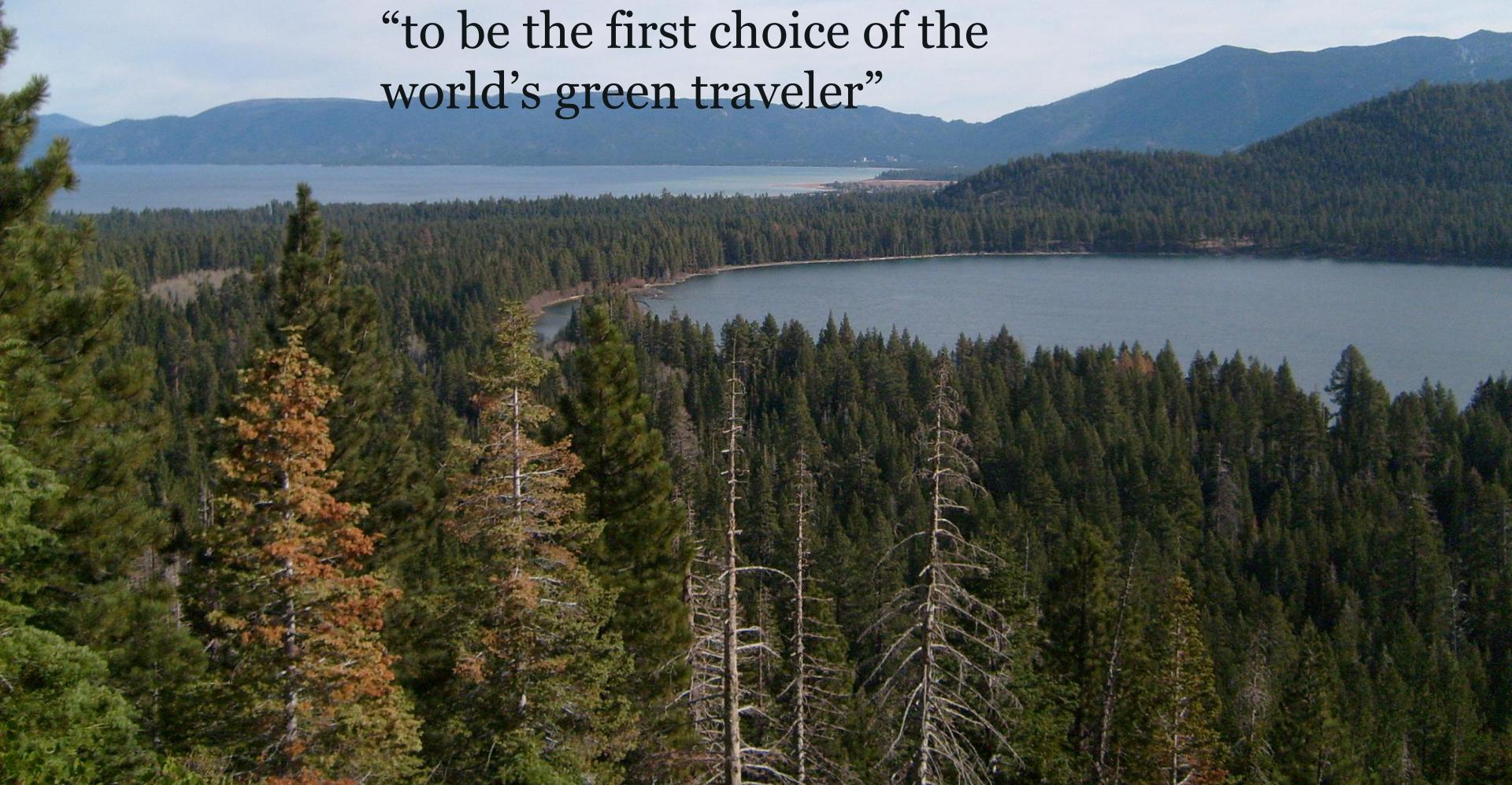


# EMBASSY SUITES

## 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**

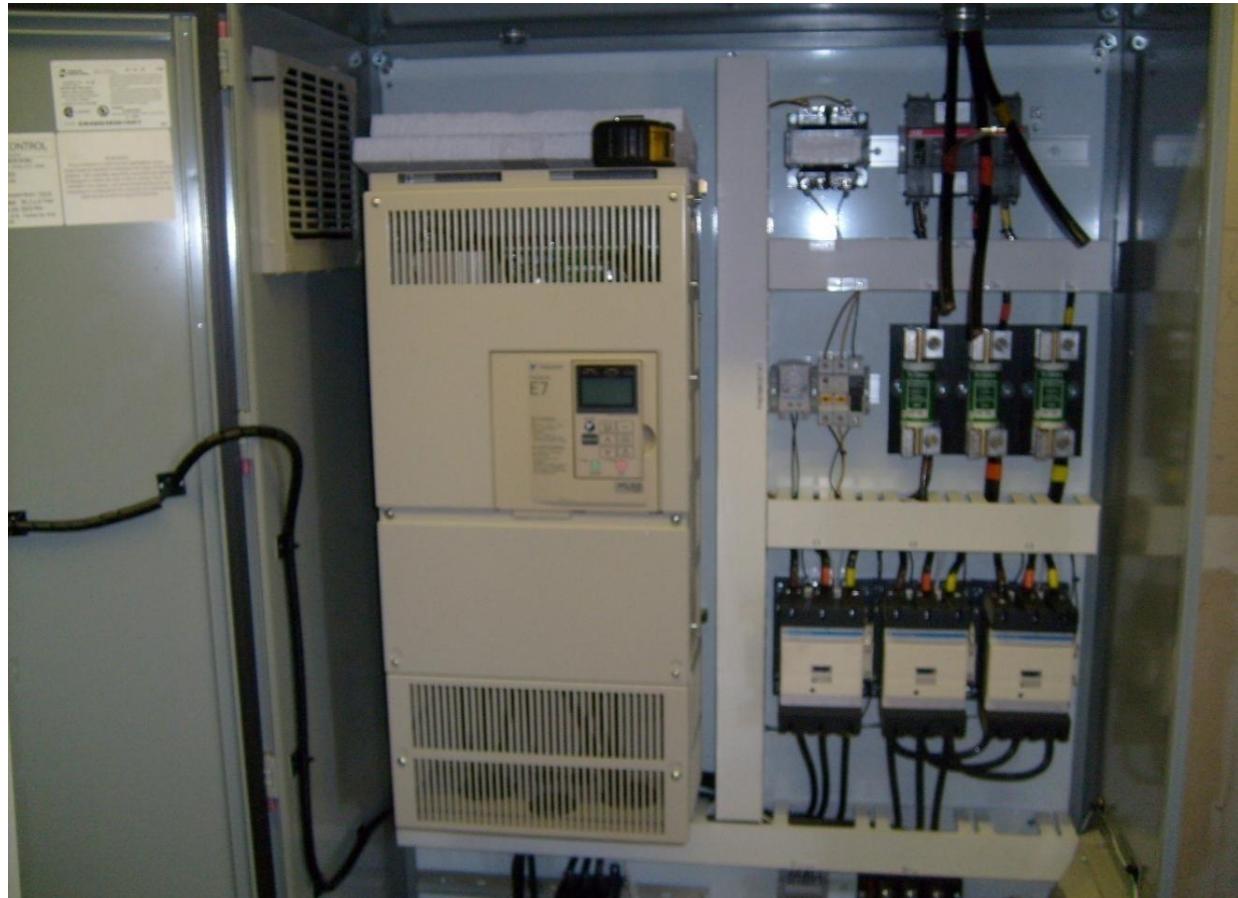
A system for controlling the rotational speed of an alternating current (AC) electric motor by controlling the frequency of the electrical power supplied to the motor.

-Two 30 hp Cooling Tower Fan Motors

-One 75 hp Condenser Pump

-One 15 hp Chilled Water Pump

-\$6,750 Rebate

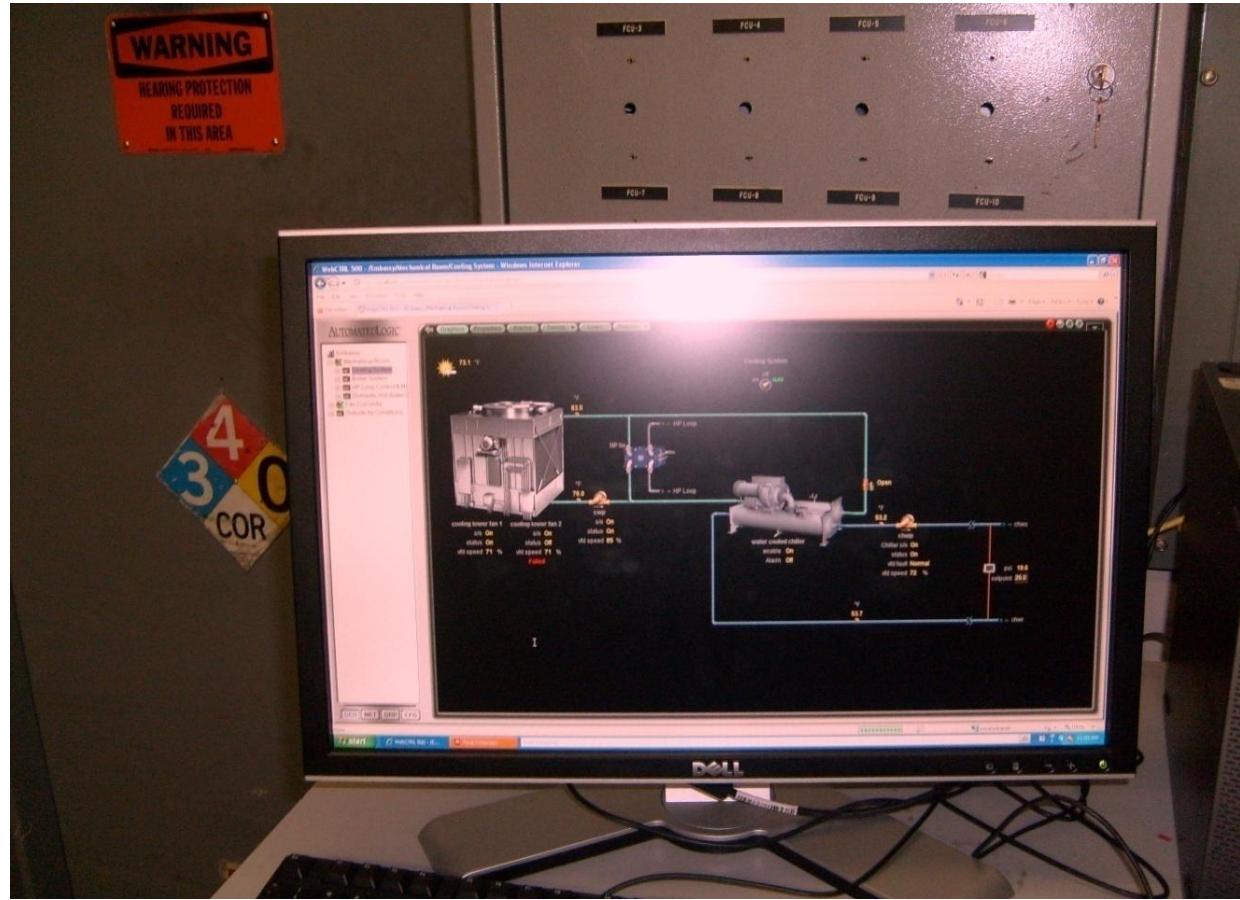


## VARIABLE FREQUENCY DRIVES

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

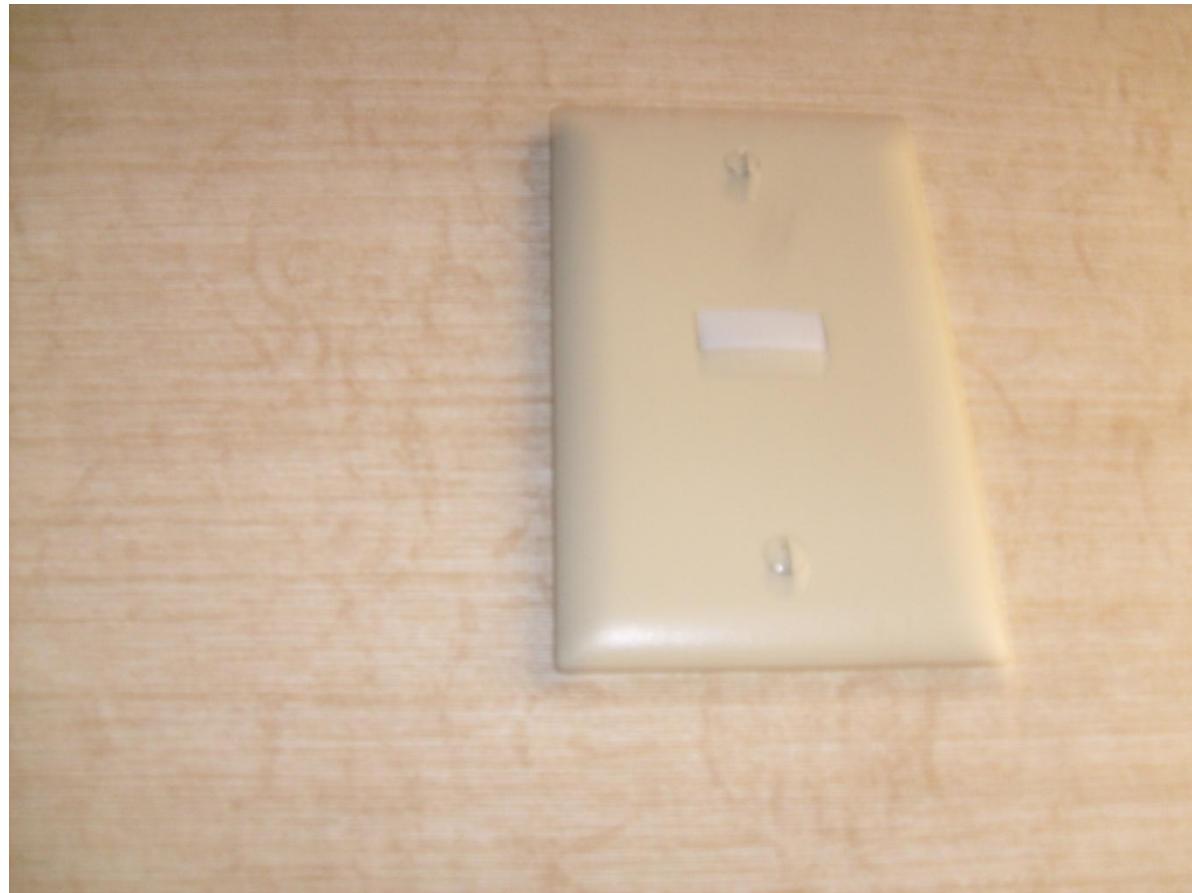
All 400 suites  
have  
programmable  
occupancy  
sensing  
thermostats.

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**



Pay To The  
Order Of

Embassy Suites Hotel

Date October 15, 2009

\$ 27,727.20

Twenty Seven Thousand Seven Hundred Twenty Seven & 20/100 Dollars

Blue is Lake Tahoe,  
Green is the Embassy

Memo

0000000000001234A56B78C

NV Energy

# 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

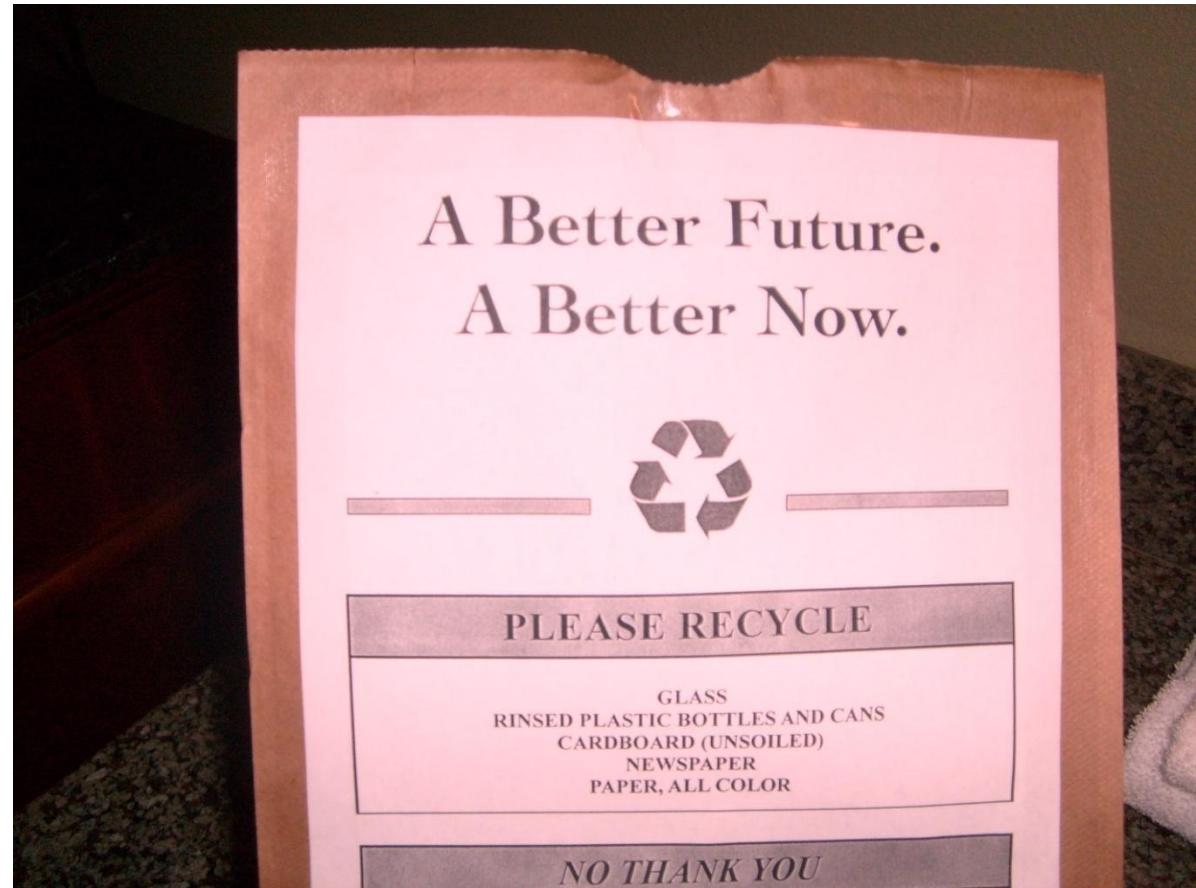
All food  
waste goes  
into  
compostable  
trash bags.





# 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.

