

THE BROADMOOR

C O L O R A D O S P R I N G S

The following environmentally-conscious programs are currently in place:

Energy Use

- The Central Plant Upgrade that eliminated 7 aging evaporation / central plant systems throughout the resort resulted in the elimination of cooling towers, chillers, condenser pumps and motors, evaporator pumps and motors and other associated equipment.
- During our renovations, the facility was insulated, including the installation of all new thermal pane, energy efficient windows. All of the mechanical distribution (hot water, heating and cooling) piping was replaced with insulated material (formerly it was not insulated), pipe diameters were increased to reduce friction losses etc. Over taxed electrical distribution systems were completely redesigned and replaced with new more efficient equipment.
- A state-of-the-art Energy Management System was designed and implemented which enabled us to control lighting, heating, cooling systems, space temperatures, demand cycling and many life safety functions through out the resort. This system ensures that we operate all of our mechanical systems in the most efficient manner possible.
- A waste heat recovery unit for our laundry system recovers heat from our wash cycle to pre-heat the cold water, making a significant reduction in natural gas usage.
- We are currently in design phase (for 2008 installation) of a completely new state-of-the-art boiler plant. This plant provides heat water and steam to the majority of the resort. We anticipate this upgrade will provide substantial BTU per sq.ft. savings.
- New chilled water balance system to be installed. This will maximize the efficiency of our chilled water supply to the various locations throughout the resort.
- Extensive project to convert over 30,000 of our existing light fixtures to compact fluorescents, cold cathode fluorescents and LEDs.
- Conversion of incandescent lighting, T12, T8 and metal halide lighting to efficient T8, T5, Biax, CFL's cold cathode fluorescents and LED's let to improved light levels and reduced energy costs as well as maintenance concerns.
 - Financial Impact:
 - Annual electrical reduction: 4,900,000 kWh
 - Annual electric savings: \$282,210.00
 - Utility rebate: \$200,000 for reducing electricity load during peak hours
 - Payback period: 1.3 years
 - Environment Impact:
 - Reduction of our electrical consumption by over 5,300,000 kWh annually
 - Reduction of demand by 1,139 kW
 - Pollution reduction of: Carbon Dioxide (in Tons) = 6,430.6, Sulfer Dioxide (in Kg) = 53,588 and Nitrogen Oxide (in Kg) = 21, 435
 - 9,646 Barrels of crude oil and 2,519 tons of coal that will not be burned by electric power plants
 - Equivalent to eliminating the pollution from 750 cars per year or planting 1, 554 trees per year

Waste Generation

- Inspection and training of our staff was organized by Christopher Lee Erzinger (Compliance Officer with Colorado Department of Public Health and Environment). This was performed to assist us in ensuring that all of our waste/controlled substances, disposal materials are handled in an environmentally sound and compliant manner, adhering to all applicable statutes and good business practices. This included all Laundry, Grounds, and Engineering Operations.
- A cardboard baler is located on the loading dock of Broadmoor Hall. Employees will continue to be trained on how to produce a bale as well as encouraged to get boxes from exhibitors, the kitchen, groups, etc. to the baler instead of the trash compactor.
- Two dumpsters are located at the back of Broadmoor Hall. One holds all paper products and the other holds co-mingled items, including plastic, aluminum, and glass.
- Fourteen large plastic trash cans with attached lids are located along the back wall of Broadmoor Hall. Six hold paper products and eight hold co-mingled items.
- The Sales office in Broadmoor Hall has two recycle bins, one in the Copy Room for paper and one in the kitchen for co-mingled items. Recycle bins to be ordered for the Human Resources Copy Room for paper as well as bins for Training Rooms in which co-mingled items can be placed.
- All refuse metals including copper, brass aluminum cans, which are quite considerable, are recycled.
- In an effort to ensure continued and successful recycling, a 'Recycling Team' was organized.

Water Use

- Hotel eliminated 7 evaporation and mechanical cooling systems throughout the complex during The Central Plant Upgrade. Project not only reduced water use but also electricity and chemical treatments.
- Ice machines are hooked up to closed loop condenser water, eliminating flow through usage.
- All irrigation systems have been upgraded over the last several years to include: vast drip irrigation systems, rain monitoring systems and remote computer controlled operation.
- Toilets in all guest rooms have been converted to low-flow and showers are flow-restricted.
- Display fountains are only run during restricted hours, or during functions, and all are recirculating.
- The new swimming pool installed during phase II of our renovations has a state of the art back wash system which minimizes water usage.

Golf

- Our golf courses are certified Audubon Sanctuaries, which recognize the highest level in environmental policies. Additionally, we converted over 50 acres of maintained turf grass to native grass lands and wildflower areas.
- We use non-potable water for irrigation for grounds and golf.

Retail

- We carry organic jams/jellies, chocolates, and nuts (no preservatives) in Cheyenne Gourmet.
- Spring 2008 we will carry Woman's organic clothing line, *Linda Loudermilk* and animal-friendly handbag line, *Matt & Nat*.
- Colorado Clothing is available in the Signature Shop.
- Casual Resort Sportswear line *BORN* will be carried in the Haberdashery featuring charcoal and bamboo materials.
- Many Clothing lines are made with natural cotton and fibers and no pesticides. Some also contain soy materials.

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