



## Gaylord National Resort & Convention Center Green Initiatives

Gaylord Entertainment is committed to protecting the environment we all share by identifying and implementing innovative approaches to energy efficiency, water conservation, waste reduction and air cleanliness.

### Water Conservation & Energy

- ❖ Towel and linen reuse program for guest rooms, *reducing water and detergent consumption.*
- ❖ Low-flow faucets (less than 2.5 gal/min) in guest rooms, *reducing water consumption.*
- ❖ Low-flow toilets (less than 1.6 gal/flush) in guest rooms, *reducing water consumption.*
- ❖ Automatic water conservation toilets in public restrooms, *reducing water consumption.*
- ❖ Automatic water conservation faucets in public restrooms, *reducing water consumption.*
- ❖ Water efficient landscaping in place, *reducing water consumption.*
- ❖ Irrigation system communicates with rain meters to water landscaping only if needed, *reducing water consumption.*

### Waste Reduction

- ❖ Cardboard recycling program in place, *reducing waste.*
- ❖ Currently developing newspaper recycling program for guest participation, *reducing waste.*
- ❖ Purchasing post-consumer recycled content for targeted paper products, *reducing waste.*
- ❖ Bulk purchasing, reduced packaging and manufacturer take-back initiatives in place, *reducing waste.*

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- ❖ Ink cartridge and toner cartridge program with on-site business center, *reducing waste*.
- ❖ Installation of e-copy machines, *reducing copy paper waste*.

## **Energy Efficiency**

- ❖ Energy management system in place, *ensuring energy efficiency*.
- ❖ 24-hour monitoring of central plant operation sequences in place, *ensuring energy efficiency*.
- ❖ Demand meters to monitor and reduce consumption in place, *ensuring energy efficiency*.
- ❖ Variable frequency drives for chillers, circulating pumps, cooling towers, and air handlers installed, *ensuring energy efficiency*.
- ❖ Lighting upgrades to fluorescent lights and electronic ballast in all office areas, *ensuring energy efficiency*.
- ❖ Motion sensors in most offices to turn off lights when rooms are not occupied for more than five minutes, *ensuring energy efficiency*.
- ❖ Time-based exterior lighting system with daylight sensors and timer capabilities in place, *ensuring energy efficiency*.
- ❖ Exhibit Hall light fixtures feature dual switching, enabling 50% light output during tradeshows, *reducing energy consumption*.
- ❖ To ensure maximum efficiency, air handler units and coils are cleaned systematically, *ensuring clean air and energy efficiency*.

## **Food-Related Initiatives**

- ❖ Gaylord National chefs will work with Second Harvest Food Bank and local food banks to provide excess prepared food to needy families and local soup kitchens, *reducing waste*.
- ❖ Gaylord National restaurants and convention center are committed to supporting local, organic and sustainable farming. These relationships reduce air travel and create shorter transit distances, *which drastically reduces the amount of fossil fuel consumed in bringing foods from farm to table*.

## **Communication**

- ❖ Energy Committee and Recycling Committee in place.
- ❖ GET Green, an ongoing STAR communications and training program is in place.
- ❖ Gaylord National Environmental Policy currently under revision for Green Lodging application.

- ❖ Internal team has developed effective towel and linen reuse communication for guest rooms.

### **Guest Rooms**

- ❖ Compact Fluorescent lighting in all guest rooms reduces electric consumption from lighting by as much as 70% as compared to traditional incandescent lighting.
- ❖ All guest rooms are controlled with “Smart” digital thermostats that will sense room occupancy, and modulate room temperatures in unoccupied guest rooms saving electricity and natural gas.
- ❖ Heat Recovery in the winter allows heat from toilet exhaust air in guest rooms to be removed and used to preheat incoming fresh air for guest rooms. The reverse occurs in summer to pre-cool incoming fresh air.

### **Public Spaces**

- ❖ Our very own Green Roof – unique landscaped roofing of internal courtyard roof.
- ❖ Atrium Glass has Low E coatings and double-pane glass in all window walls, which reduces solar load on HVAC systems.
- ❖ Radiant floor heating/cooling system in atrium floor which reduces the heating cooling load on traditional air handlers, drastically reducing energy consumption.
- ❖ Day lighting systems in the atrium and pre-function areas automatically turn off lights when natural lighting provides proper illumination levels.

### **Meeting Rooms**

- ❖ Variable Air Volume (VAV) Systems modulate the flow of air to meet specific needs of each space, reducing air to minimum needed for safety and occupant comfort.
- ❖ HVAC controls monitor CO2 levels in the air to minimize the amount of unconditioned air brought into a room to meet the occupant load.

### **Central Plant**

- ❖ Free Cooling-Heat exchangers that use cold cooling tower water are used to produce cold water for air conditioning during winter and fall seasons when the outside temperature is below 50 degrees. This negates the need to use a chiller for several months out of the year in order to provide comfort cooling and significantly reduce electricity needs.
- ❖ High Efficiency Chillers use less kwh/BTU than standard chillers due to increased heat exchange surface areas and enhanced control sequences.

- ❖ Variable Frequency Drives are installed on all primary pumping systems and all major air handling motors. Similar to a light dimmer, VFD's allow pumps, fans, and similar equipment to be dialed up and down to match the load at any given time, drastically reducing the amount of electricity needed during most operating hours.
- ❖ With the Building Automation System (BAS), all mechanical equipment located throughout the building is controlled and scheduled via a centralized building automation system that automatically turns off or reduces energy consumption associated with lighting and HVAC when spaces are unoccupied.
- ❖ Boiler Heat Recovery Systems allow heat from the exhaust boilers to be captured and used to pre-heat incoming make-up water for the boilers.
- ❖ Waste water from the laundry's washing machine's final rinse cycles is reused as pre-rinse water for the next cycle of laundry.

### **Back of House**

- ❖ All areas are illuminated with high efficiency fluorescent lighting, and use T8 light fixtures which offer more light output for each watt of power consumed.
- ❖ Motion sensors in offices and back of house areas automatically turn off lighting when areas are unoccupied for more than 5 minutes.

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