

BOYD GAMING LINEN AND UNIFORM SERVICE

Resourceful Transformations

Boyd Gaming opens nations first LEED-Silver Certified laundry facility

PROJECT BACKGROUND

Boyd Gaming Corporation decided in 2006 to bring linen and laundry services in-house. After purchasing a five-acre site with an existing 100,000 square-foot metal building in Henderson, Nevada, Boyd Gaming worked to develop the facility with the ability to manage the cost and quality of the vital service to all Boyd Gaming hotels and casinos in the Las Vegas Valley. During the design, it became clear that the existing site and 20 year old building would present challenges in its transformation as well as a tremendous opportunity to create a first-class LEED-NC certified building.

STRATEGIES AND RESULTS

There was substantial work that needed to be done to upgrade both the building and site infrastructure. Boyd Gaming's initial goals were to reduce the amount of materials that would be sent to the landfill by recycling and reuse of those materials to the greatest possible extent.

- Reused concrete and asphalt, diverting over 3,000 tons of materials to the landfill
- Recycled all roof-mounted swamp coolers and interior lighting installed energy-efficient swamp coolers, interior lighting, and created 13 skylights to reduce energy usage. Annual reduction of 555 metric tons of CO2 emissions
- Recycled approximately 20,000 pounds of FF&E from old corporate office, diverting it from landfill created white insulated roof to reduce heat island effect
- Recycled and reuse heat energy from boilers to pre-heat water to operating temperature. Annual reduction of 1,100 metric tons of CO2 emissions
- Reduce water usage by 20 million gallons of water a year

FACILITY FACTS

Construction Highlights

- Original concrete floor and exterior asphalt was removed and reused
- Reuse of materials from Industrial Road corporate office
- Energy efficient evaporative cooling units and duct socks
- Thirteen skylights
- Replaced old lights with energy efficient T-5 lighting
- Low volume water fixtures and waterless urinals
- Installation of white insulated roof to reduce heat transfer in the summer

Laundry Production

- Implementation of Water Reuse Systems and Tunnel Washing which saved approximately 20 million gallons saved (50 gallons save when fully completed)
- Average 1.5 – 2.0 gallons/pound processed versus national average of 3-4 gallon/pound processed
- Environmentally friendly chemicals, use of “green” chemicals, enzymes allows for lower wash temperatures
- Heat Energy Reuse Systems utilize heat from boilers and water reuse to pre-heat water to operating temperatures
- Recycling program for linens and operations supplies instituted
- Preferential parking for car pooling and gas efficient vehicles
 - Additionally, partners with the RTC participating in the Club Ride program
- Participants in Nevada Power (NV Energy) Sure-Bet program for energy efficient equipment

ABOUT THE BOYD GAMING

At Boyd Gaming, we are committed to protecting the environment and pursuing sustainable business practices. We conserve energy in a number of ways, including CFL light bulbs, and air heat recovery systems. In addition, various properties have programs in place to recycle everything from cardboard, aluminum and glass to food, grease and oil.

Our Las Vegas linen and uniform laundry facility is the first in the country to receive LEED Silver-certification from the U. S. Green Building Council. It has also received an award from the American Lung Association of Nevada for environmentally friendly practices.



Architect: Wells Pugsley Architects

Owner: Boyd Gaming Corporation

LEED Consultant: Green Ideas, Inc

Structural Engineer: Mendenhall Smith

Mechanical Engineer: Technical Design

Civil Engineer: LanDesign

General Contractor: Savi Construction

Electrical Contractor: Helix Electric

Mechanical Contractor: S3H

Consultant: AJ Industries

ABOUT LEED

The LEED® Green Building Rating System™ is the national benchmark for the design, construction, and operations of high-performance green buildings. Visit the U.S. Green Building Council's website at www.usgbc.org to learn more about LEED and green building.