



Clean Utah Annual Report 2012

Xanterra Parks & Resorts- Zion Lodge

Clean Utah! Project Accomplishments & Commitments to Date

- Achieved the 2009 goal of reducing water usage by 1,000,000 gallons
- Achieved gasoline usage and electricity usage reduction goals in 2010
- Achieved solid waste reduction goal and carbon offsets goal, but fell slightly short of the electricity usage reduction goal in 2011
- Achieved 2012 goal of continued LED retrofit and building remodeling for energy intensity use, achieved goal of water recirculation system design and installation, but fell short of reducing solid waste headed to the landfill.

2013 Projects & Accomplishments

Project 1

Goal: Reduce solid waste going to the landfill

Results: Increase in amount of solid waste going to the landfill

Successes - Solid Waste 2013:

Zion Lodge recently restarted the on-site composting program. In addition to the reduction of landfilled waste from kitchen scraps, this program serves significant community outreach opportunities by our frequent donations of compost to the community garden. In addition to the donation of compost, we maintain a plot in the community garden which feeds our staff fresh vegetables throughout the summer and ensure our guests have fresh herbs.

Opportunities – Solid Waste 2014

Zion Lodge saw a significant increase in the amount of waste sent to the landfill in 2013. However this did not correspond with a decrease in recycled material. Opportunities for 2014 include identifying material identified for the landfill and finding alternatives methods of disposal. Additionally, our kitchen will continue to monitor food waste and proactively reduce waste through source reduction.

Metrics – Solid Waste

Targeted Indicator: Solid Waste to the Landfill

Baseline total: 248,720 pounds

2008 Total: 255,240 pounds

2009 Total: 251,920 pounds

2010 Total: 259,270 pounds
2011 Total: 225,010 pounds
2012 Total: 207,240 pounds
2013 Total: 254,442 pounds
No savings

Benefit or Savings to the Company:

Beyond financial benefits to the company continued focus on reducing landfilled waste is a hallmark program for staff, guests and the community. Each room has both a waste and recycle container to encourage landfill diversion from the source. Guests are trained to focus on reducing waste and encouraging a separation of material in their scope. The community has also significantly benefited from the efforts of Xanterra to bring competitive recyclers to a remote location.

2014 Targeted Goal: After a marked increase in landfilled waste in 2013, Zion Lodge will work to reduce landfilled waste by 6%.

Project 2 – Electricity Usage

Goal: Continue retrofit to LED lighting and remodel buildings for energy efficiency
Results: Successful completion of increased LED lighting and building remodels

Successes - Electricity Use 2013

Zion Lodge continued to retrofit lighting to accommodate LED bulbs for energy savings. Additionally, major building renovations will result in energy savings over time. This includes the replacing baseboard heating in a dorm for a high seer heat pump unit and replacing the single pane windows of the main Lodge with historically-appropriate double pane glass.

Opportunities – Electricity Use 2014

The property will look for more opportunities to save on energy used for heating and cooling costs through conducting a thermal image audit of the buildings and insulating and repairing areas of high heat transfer. Additionally, all major equipment will be scheduled for recommended preventative maintenance schedules. Although electricity consumption increased, we believe through our continued focus on best management practices that it was largely due to the extremely unprecedented dramatic weather of 2013.

Metrics – Electricity Use

Baseline Total: 1,674,875 kwh
2008 Total: 1,842,041 kwh
2009 Total: 1,732,880 kwh

2010 Total: 1,636,497 kwh
2011 Total: 1,564,362 kwh
2012 Total: 1,493,430 kwh
2013 Total: 1,581,299 kwh
Change: 87,869 increase
No savings

Benefit to the Company:

In addition to financial savings, Xanterra continues to benefit from positive public relations associated with energy conservation successes in highly visible guest areas. By incorporating preferable purchasing and sustainable design practices, such as the fireplace replacement and the dormitory remodel, Xanterra was able to realize savings and provide a better guest experience.

Targeted Goal for 2014:

Xanterra plans to complete the remodel of the employee dormitory building, and begin another, and to retrofit more lighting to LED lamps. We will also complete a thermal imaging audit with the results of an improved heated/cooled building envelope resulting. Our goal is to reduce electricity usage by 1% in 2013.

Project 3 Water Usage

*Goal: Install a cooling water re-circulation system for walk-in refrigerators and freezers
Results: Successful completion of the design and installation of water re-circulation system.*

Baseline Total: 16,326,423 gallons
2008 Total: 15,689,930 gallons
2009 Total: 11,622,360 gallons
2010 Total: 15,817,190 gallons
2011 Total: 14,114,380 gallons
2012 Total: 13,349,210 gallons
2013 Total: 12,534,170 gallons
Reduction: 815,040 gallons
Savings: \$446

Benefit to the Environment for the Year:

In the summer of 2012, an innovative system was installed that recirculates water used to cool compressors and refrigerant in a water cooled walk-in refrigeration system at the Red Rock Grill restaurant at Zion Lodge. This system closes the loop on cooling water so that the system no longer needs to be constantly replenished with fresh water. The water cools the system, and then passes through a series of heat exchangers and water

tanks. The now cool water then passes back through the system and cools the system again.

Public Participation:

Many efforts were undertaken to reach out to guests at Zion Lodge regarding environmental programs. These included new signage in public areas. A guest carbon offset program encouraged guests to review their travel and consider purchasing carbon offsets. This was a positive awareness program. Xanterra's Director of Sustainability spoke at several events in Ogden, Springdale, and Kanab and was interviewed by media outlets and representatives of foreign governments. Several articles were also published regarding ongoing efforts at the lodge.

Emily Barajas
Sustainability and Risk Manager
Xanterra Parks & Resorts, Inc.
Zion National Park Lodge

Telephone: (435) 772-7776