



## Clean Utah Annual Report 2014

### 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.
- Reduced electricity by 5.5x stated goal in 2014 by adding insulation, high seer heat pumps and improving preventative maintenance on existing hvac equipment.

#### 2014 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 2014:**

Zion Lodge had an increase in materials diverted from the landfill of 4.4% including successfully supporting a local farmer, electronic recycling facility, various non-profits and our own composting facility which donates compost to the local 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 ensures our guests have fresh herbs.

##### **Opportunities – Solid Waste 2015**

Unfortunately, Zion Lodge saw an increase in the amount of waste sent to the landfill in 2014. On the bright side, this did not correspond with a decrease in recycled material, indicating that it is likely due to the increase in visitation rather than a decrease in participating in the recycling program. Opportunities for 2015 include avoiding waste which is frequently in the waste stream, identifying material destined for the landfill and finding alternative methods of disposal, and continuing to find alternative methods of recycling material. 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

2014 Total: 265,080 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. Employees 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.

## **2015 Targeted Goal:**

After a marked increase in landfilled waste in both 2013 and 2014, Zion Lodge will work to reduce landfilled waste by 6% in 2015.

## **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 2014**

Zion Lodge continued to retrofit lighting to accommodate LED bulbs for energy savings. Additionally, major building renovations have resulted 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. Smaller cost items like attentively cleaning out all guest ptac units has also demonstrated significant savings in energy consumption.

## **Opportunities – Electricity Use 2015**

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. We will also be working towards updating all

guest facing lighting. Additionally, all major equipment will be scheduled for recommended preventative maintenance schedules.

### **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  
2014 Total: 1,492,974 kwh  
Change: 88,325 decrease (5.6%)  
Savings \$5,672

### **Benefit to the Company:**

Saving energy continues to not only be the right thing to do for the environment but also one of the biggest cost savers in our industry. Since our baseline year (2000) we have reduced energy consumption by 11% while increasing room nights sold by over 5 %. Each kilowatt saved saves dollars now and down the line as cost/kilowatt hours continues to rise (per kilowatt hour our location pays 91% more now than in our baseline year). 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 2015:**

Xanterra plans to complete the remodel of the Box Elder 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 2015.

### **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  
2014 Total: 11,080,310 gallons  
Change: 1,453,860 gallon decrease (-12%)  
Savings: \$6,033

**Benefit to the Environment for the Year:**

Zion National Park is one of the most at risk national parks in America to the effects of climate change. This risk is mostly due to the impacts the changing climate is having on the Virgin River. Keeping water in the river is vital to maintain a healthy ecosystem for visitors to the park and is of primary importance to our actions.

**Targeted Goal for 2015:**

Submeters are being added throughout property to monitor the most water intensive processes and drive innovative solutions to keep the meter running slower and slower. Leaks will be detected faster, and changes made to save water can be monitored better.

**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 Sustainability Manager 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 including the widely acclaimed free electric vehicle charging stations installed in the fall.

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