Sustainable Slopes
ANNUAL REPORT 2010

PREPARED BY
IN CONJUNCTION WITH

NATIONAL SKI AREAS ASSOCIATION

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NSAA wishes to thank the following resorts for their time and dedication in completing the 2010 Member Survey and describing their activities this season:

Alta Ski Area  Mt. Rose - Ski Tahoe
Arapahoe Basin Ski Area  Northstar-at-Tahoe Resort
Arizona Snowbowl  Nub’s Nob Ski Area
Baqueira Beret  Okemo Mountain Resort
Bear Valley Mountain  Pats Peak
Beaver Creek Resort  Powderhorn
Belleayre Mountain  Powder Ridge
Big Sky Resort  Ragged Mountain
Bitterroot Resort  Schweitzer Mountain Resort
Blue Mountain Resort  Sierra-at-Tahoe Resort
Breckenridge Resort  Snowbasin Resort
Bridger Bowl Ski Area  Snowshoe Mountain
Crested Butte Mountain Resort  Squaw Valley USA
Crystal Mountain  Steamboat Ski & Resort Corp.
Crystal Mountain, Inc.  Stowe Mountain Resort
Deer Valley Resort Company  Sugar Bowl Resort
Gore Mountain  Sunburst Ski Area
Grand Targhee Resort  Sundance Resort
Greek Peak Mountain Resort  Sunday River
Gunstock Mountain Resort  Sunlight Mountain Resort
Holiday Valley Resort  Sun Valley Resort
Hoodoo Ski Area  The Canyons Resort
Jackson Hole Mountain Resort  Vail Mountain
Keystone Resort  Waterville Valley Ski Resort
Loup Loup  Whiteface
Mission Ridge Ski & Board Resort  Whitefish Mountain Resort
Mount Washington Alpine Resort  Wildcat Mountain Ski Area Inc.
Mountain High Resort  Willamette Pass Resort
Mt. Abram  Winter Park Resort
Mt. Hood Meadows  Wisp Resort
2010 HIGHLIGHTS

The National Ski Areas Association (NSAA) is pleased to report on the sustainability efforts of resorts in the 2009/2010 season — the tenth anniversary of the adoption of the Sustainable Slopes Environmental Charter.

At the 10-year mark, the Sustainable Slopes program continues to be an evolving and vibrant program that informs and inspires sustainability programs across the ski industry. By way of background, more than 190 resorts have endorsed the Environmental Charter over the past decade, representing over 75 percent of the ski resorts nationally by skier visits. Upon endorsing the Charter, these resorts have identified an environmental contact person, assessed their policies and operations against the Environmental Principles in the Charter, and have taken steps toward improved environmental performance. Given variances in size, technical expertise, financial resources, and geographic location, resorts are at different points with respect to their environmental programs and implementation of the Environmental Principles but all are making efforts that are meaningful.

We are pleased to report that our newest installment to the program — the Sustainable Slopes Grant Program — reached the $100,000 mark with generous donations from sponsors and partners. New to the program this year were two in-kind snowmaking grants from NSAA supplier member Snow Economics, Inc. or HKD Snowmakers. The two in-kind grants of 10 SV10 high efficiency snowmaking guns have a total value of $80,000 and were awarded to Mt. Abram in Maine and Crested Butte in Colorado. In addition, four cash grants sponsored by energy bar maker CLIF Bar & Co., the Natural Resources Defense Council (NRDC), and NSAA were awarded to resorts for the following programs: an energy management and interpretive signage projects at Alta Ski Area (Utah), an electric bike used for resort maintenance at Crested Butte (Colorado), water bottle refilling stations at Grand Targhee (Wyoming), and a composting pilot project at Stevens Pass (Washington). For more details on the goals of the grant program and the recipient projects, see Section 2.0 of this Annual Report.

NSAA continues to make available to resorts the Taking Sustainable Slopes to the Next Level Guide at www.nsaa.org. Some of the topics and resort programs featured in the Guide also were featured in NSAA’s education programs in 2010. At the National Convention, Brendle Group Principal Judy Dorsey moderated a session on carbon inventories and proactive steps that resorts are taking on developing climate plans, calculating their carbon footprints, and developing inventive sustainability programs. Representatives from Alta Ski Area, Grand Targhee, and Efficiency Vermont, a novel, state-funded agency that aids Vermont ski areas in improving their energy efficiency and reducing their energy costs, were among the panelists.

NSAA’s member resorts are committed to investing in green power. An impressive number of ski areas purchase renewable energy credits (RECs) to offset a portion of, or 100 percent of, their energy with clean, renewable energy. NSAA continues to purchase RECs together with the Professional Ski Instructors Association/American Association of Snowboard Instructors to
offset 100 percent of the greenhouse gas emissions associated with operating our respective office space and storage warehouse in Lakewood, Colorado.

In addition to REC purchases in the industry, many resorts are investing in on-site renewables. For example, Bolton Valley in Vermont installed a Northwind wind turbine last fall. The first of its kind at a Vermont ski area, the wind turbine is located near the top of the Vista Quad and will generate about 300,000 kilowatt hours of electricity per year. CLIF Bar recognized the project through a 2010 Silver Eagle Award in Energy Conservation/Clean Energy. NSAA is pleased to see the growing commitment to on-site renewable energy among member resorts.

NSAA’s member resorts and NRDC will continue to work together to lobby Congress on climate change legislation. About 75 resorts endorsed the Waxman/Markey bill in the last session of Congress. We are actively monitoring developments in the current Congress on energy and climate change legislation.

NSAA’s SWAG, or Sharing Warmth Around the Globe, program continues to succeed and offers a unique opportunity for resorts to demonstrate their commitment to sustainability. Through the SWAG program, NSAA distributes retired ski resort uniforms and winter garments that would otherwise be discarded to those in need in cold weather countries throughout the world. During the 2009/10 season, SWAG donated 8,500 garments. These donations helped people who desperately needed something warm to wear during the cold winter months. In total, the SWAG program has donated over 123,500 pieces.

About 30 resorts are partnering with the National Forest Foundation (NFF), a non-profit partner of the U.S. Forest Service, to fund conservation projects on the National Forests. The program, called Ski Conservation Fund, has raised over a million dollars since the program’s inception, including NFF matching funds. Every dollar invested in the NFF in on-the-ground conservation projects results in $4 of total conservation investment. This is made possible through the addition of appropriated funds, in-kind support, and matching funds. The projects funded by NFF include restoring and maintaining trails, protecting and improving clean water sources and aquatic species habitat, safeguarding and enhancing critical wildlife habitat, and assisting communities in caring for their local forests.

Finally, NSAA is proud to recognize the winners of the 2010 Golden and Silver Eagle Awards. These awards, initiated in 1993 to recognize environmental excellence in the ski industry, are administered and sponsored by CLIF Bar & Co. Touting the Golden Eagle award as the Stanley Cup of the ski industry, Whistler Blackcomb took home the top honors this year for its comprehensive approach to environmental stewardship, including partnership in a hydroelectric facility on its property that will generate enough energy — 33 gigawatt hours of hydro-electricity — to match its total annual
energy consumption, and its zero waste initiative. Silver Eagles were awarded to Mammoth in California for a recycled water supply project, Bolton Valley in Vermont for constructing a wind turbine, Durango Mountain Resort in Colorado for its clearing technique known as “lop and scatter,” Sierra-at-Tahoe in California for its youth education program, Vail Resorts in Colorado for its Hayman Fire Restoration project, and Steamboat in Colorado for its zero waste initiative.

On behalf of ski areas across the country, NSAA would like to thank all of the individuals, organizations, and agencies outside the industry that have supported Sustainable Slopes over the past decade. We have our partners, stakeholders, innovators, and Brendle Group to thank for our collective successes.

Michael Berry  
National Ski Areas Association President  
July 2010
# Table of Contents

## 2010 Highlights

## 1.0 Sustainable Slopes Environmental Charter

1.1 History and Purpose of the Chapter

1.2 Overview of the Environmental Charter

1.3 The Future

1.4 Endorsing Resorts

## 2.0 Sustainable Slopes Grant Program

2.1 Background

2.2 Snowmaking Grants

2.3 Cash Grant Criteria

2.4 2010 Grant Award Winners

## 3.0 Member Survey and Resort Progress

3.1 Survey Results

3.2 Summaries of Resort Progress

## 4.0 Contributions of Partnering Organizations

## Appendix A: 2010 Winning Grant Applications

## Appendix B: Clif® Bar 2010 Golden Eagle & Silver Eagle Award Winners
1.0 SUSTAINABLE SLOPES ENVIRONMENTAL CHARTER

1.1 HISTORY AND PURPOSE OF THE CHAPTER

Every year, millions of people visit ski areas across North America to enjoy snow sports and to experience the natural beauty of the mountain environment. These visitors place a high priority on environmental concerns. In order to continue to offer quality recreational experiences that complement the natural and aesthetic qualities that draw these visitors to the mountains, the National Ski Area Association (NSAA) and its member resorts have committed to improving environmental performance in ski area operations and management. This commitment is detailed in the Sustainable Slopes Environmental Charter for Ski Areas adopted in June 2000 and revised in 2006.

1.2 OVERVIEW OF THE ENVIRONMENTAL CHARTER

The Environmental Charter promotes sound environmental stewardship and, more importantly, offers a comprehensive set of 21 Environmental Principles that enable ski area operators to make sustainable use of natural resources. The Principles are the key to the Environmental Charter and address the following topics:

1. Planning, Design, and Construction
2. Water Use for Snowmaking
3. Water Use in Facilities
4. Water Use for Landscaping and Summer Activities
5. Water Quality Management
6. Wastewater Management
7. Energy Use for Facilities
8. Energy Use for Snowmaking
9. Energy Use for Lifts
10. Energy Use for Vehicle Fleets
11. Waste Reduction
12. Product Re-use
13. Recycling
14. Potentially Hazardous Wastes
15. Fish and Wildlife Management
16. Forest and Vegetative Management
17. Wetlands and Riparian Areas
18. Air Quality
19. Visual Quality
20. Transportation
21. Education and Outreach

Understanding that ski areas have some unavoidable impacts, the Principles encourage ski areas to adopt the “avoid, minimize, mitigate” approach to natural resource management.
For each of the 21 Environmental Principles, the Charter identifies a range of "Options for Getting There" that resorts can implement to achieve the Principles. These "Options for Getting There" serve as a menu of realistic actions ski areas can and are taking, all or in part as their resources allow, to continually improve their operations. The “Options for Getting There” are detailed for each of the 21 Principles in the Charter document available at www.nsaa.org.

Because not all resorts have the same concerns and resources, the Charter is designed to allow resorts to use the Principles as a framework and then choose the "Options for Getting There" that make the most sense given their individual circumstances and capacities. We hope that each resort continues to take the challenge to achieve the greatest possible results individually for greater conservation collectively.

It is important to note that the Charter’s Principles are voluntary, and in adopting them, resorts have committed to going beyond regulatory compliance in those areas where improvements make environmental sense and are economically feasible. Ski areas already should be meeting all applicable federal, state, and local environmental requirements. The Principles are the means by which the industry can collectively improve environmental performance. There are many incentives for going beyond compliance, including reduced environmental impacts, increased monetary savings, reduced regulatory liability, and increased positive public image. Good environmental practices are good business, and quite simply are expected by resort customers, the Partnering Organizations of the Charter, and other key stakeholders.

1.3 THE FUTURE

NSAA will continue the Sustainable Slopes Grant Program into the future. The shift away from annual data collection and toward direct assistance and on-the-ground improvement is rewarding and meaningful. The Grant Program has and will continue to spark innovation among resorts and allow resorts with fewer resources to take on sustainability projects that might not otherwise happen. It also is a great vehicle for sharing of information among resorts, which can be inspiring and immensely helpful to others in the industry. An ongoing goal is to increase participation in the Grant Program among resorts and also increase sponsorships so that more funding will be available.

As Sustainable Slopes matures, the nature of its goals continually changes to meet the needs and expectations of member resorts and Partnering Organizations. NSAA hopes to create sources of new momentum for a maturing voluntary program and to recognize ever higher
levels of performance while continuing to encourage broad participation and efforts across the industry.

In other facets of the program, we strive to:

- Update and Improve the Keep Winter Cool Website managed by the National Resources Defense Council (NRDC)
- Engage athletes on spreading the Keep Winter Cool message
- Improve our industry’s sharing of information on the sustainability front
- Increase the number of resorts engaged in self-reporting and third-party certification

1.4 ENDORSING RESORTS

On an individual basis, ski areas take their stewardship role seriously and continue to take innovative steps each year to address environmental challenges. The Charter represents a collective step toward meeting these challenges. To date, over 190 ski areas have endorsed the Charter and are committed to implementing its Principles. For a list of endorsing resorts sorted by resort name or State/Province location, visit the NSAA website at www.nsaa.org. Of the endorsing ski areas, 61 contributed to the information presented in this report by responding to the 2010 NSAA Member Survey.
2.0 SUSTAINABLE SLOPES GRANT PROGRAM

2.1 BACKGROUND

NSAA began a modest grant program in 2009 as a partnership between NSAA and industry stakeholders. The purpose of the Grant Program is to spark innovation and increase resorts’ progress in implementing the Environmental Principles of the Charter by putting money on the ground.

2.2 SNOWMAKING GRANTS

New to the program this year were two in-kind snowmaking grants from NSAA supplier member Snow Economics, Inc. or HKD Snowmakers. Snow Economics is a long-standing family business based in Natick, Massachusetts. Snow Economics has installed its energy efficient HKD air/water technology at more than 420 ski areas around the world. The two in-kind grants of 10 SV-10 high efficiency snowmaking guns have a total value of $80,000 and were awarded to Mt. Abram in Maine and Crested Butte in Colorado. The HKD Snowmakers’ contribution to the Sustainable Slopes program is much appreciated and hopefully will serve as a model for other supplier members of NSAA looking to support the industry in improving its sustainability.

Here is how Mt. Abram and Crested Butte intend to use the high efficiency snowmaking guns and what their plans are for reinvesting the savings that result.

Mt. Abram, Maine Snowmaking Grant Awardee

Mt. Abram’s snowmaking goal is to provide a reliable snow cover, just over 1 foot on 70 acres, for Opening Day and the Christmas Vacation period, additional volumes (2 extra feet on 5 acres) to support the resort’s terrain and race parks, and intermittent relief and recovery from rain and ice events.

As a result of the snowmaking award, Mt. Abram will replace all of its internal mixing air and water ground guns with Low E Towers, allowing the resort to meet its snowmaking goals in roughly one third of the time required in years past without sacrificing snow cover reliability.

Mt. Abram’s Sustainable Slopes snowmaking project will result in a Year 1 reduction of 113,369 kWh, and 1,133,690 kWh over the first 10 years of
measure. It also will eliminate over 630 tons of CO₂ emissions in the first year and 6,314 tons of CO₂ emissions over 10 years of measure.

Savings generated from more efficient snowmaking will support Phase II of Mt. Abram’s Sustainable Slopes Initiative – a utility interfaced photovoltaic solar system designed and engineered to meet 100% of the projected electrical load, following the snowmaking efficiencies described above, creating Maine’s only net zero energy ski resort.

Crested Butte Mountain Resort, Colorado
Snowmaking Grant Awardee

Crested Butte currently makes snow on 327 acres of terrain and approximately 25% (or 82 acres) are still managed by surface hoses and guns. There are a couple of areas that are ideal for the new HKD Milleniums SV-10s: Lower Twister trail and the Cascade trail. The Cascade trail will be the new location for a terrain park and pipe area and the new snowmaking equipment will be used to build features and the pipe. Furthermore, the SV-10s will help the resort make snow much earlier in marginal temperatures.

Crested Butte estimates that the 10 HKD SV-10 towers from the grant will save approximately $35,000 to $50,000 in total snowmaking costs related to covering Lower Twister trail and the new Terrain Park and Superpipe on Cascade trail.

The resort has just completed a third-party energy inventory and audits of specific buildings, including the Snowmaking Control Facility (SCF) and Vehicle Maintenance Facility (VMF). With the current management plan for operation resources and personnel going so well, Crested Butte believes the best investment of savings from the SV-10s will be to continue to upgrade and improve these facilities and create the most efficient snowmaking operation in the ski industry. Improvements would include upgrading system equipment as well as lighting and insulation at both the SCF and the VMF.

2.3 CASH GRANT CRITERIA

Funding for the cash grant program this year came from generous sponsorships from energy bar maker CLIF Bar & Co. and the Natural Resources Defense Council (NRDC), as well as NSAA. Grant funds may be used to support design or implementation of measures, including capital costs, related to sustainability across any of the Principles. Only future or on-going projects are eligible for funding. To see a copy of the grant application for 2010 as well as this year’s winning applications, see Appendix A.

In order to be eligible for a grant, applicants are required to be ski area members of NSAA that have endorsed the Sustainable Slopes program. The following selection criteria are applied.

Does the initiative…

- Demonstrate innovation in improving sustainability?
• Raise environmental awareness?
• Promote concrete environmental actions?
• Promote the goals of Keep Winter Cool?
• Have a high likelihood of success (the necessary expertise and experience to achieve stated goals)?
• Have the ability to be replicated by others in the ski industry?
• Involve other partners, sponsors or underwriters?
• Rely on this grant money for implementation?

2.4 2010 GRANT AWARD WINNERS

This year, four cash grants were awarded to resorts for deserving and innovative projects.

Alta Ski Area, Utah
Energy Management System
Grant Amount: $3,000

This is the first phase of a multi-phase energy management program to collect and analyze real-time power use data for the ski area to develop a load use profile for future energy management projects. Funding will support a new approach to energy management using system control and data acquisition (SCADA) to manage high electrical loads. Three main objectives of the energy management system are described below:

1. Collect real-time power use data for the whole ski area and Albion base facilities.

2. Analyze data to develop an accurate load use profile. Once these objectives are met, the resort can implement the control capabilities of the SCADA system to implement objective #3.

3. Use the load use profile to develop a plan to shift or drop loads and implement other energy savings methods to reduce peak demand and overall energy use.

The objectives will be implemented in phases. Phase I includes the three objectives described above. Phase II involves expanding the SCADA system to include other major energy use pods to develop specific load profiles for those areas and start control at the Albion Base of Alta Ski Area. With the help of NSAA’s Sustainable Slopes Grant, the resort plans on implementing Phase I the summer of 2010 and Phase II the fall of 2010. If the data supports the primary
objectives, then a ski-area-wide system will be pursued incorporating the areas of greatest savings first.

Alta Ski Area, Utah  
Interpretive Signs Program  
Grant Amount: $1,500

Albion Basin is a renowned destination for recreationalists and wildflower viewers from Salt Lake Valley and all over the world—and it is located within Alta Ski Area. In 2009 the basin received an average of 623 visitors a day and this number is growing by an average of 4% each year. The increasing attention to Alta’s little haven also has increased stress on the native vegetation and revegetation efforts within the ski area. There are a variety of efforts to inform visitors on the general information of Alta, but environmental educational signs do not exist within Albion Basin. It has become apparent to both Alta ski Area and the community of Alta that there is a vital need for a sustainable and interpretive program to meet the growing recreational and visitor demand.

In response to the need, Alta and its partners, the U.S. Forest Service Salt Lake Ranger District and Cottonwood Canyons Foundation (CCF), will develop an interpretive program with a sign highlighted by a new restoration effort adjacent to Albion Basin’s most highly visited location — Catherine’s Trailhead and Parking Lot. This 20-car parking lot is one of the most accessible and exceptional viewpoints for all ages and abilities, and visitor impacts are apparent. This “restoration key” will educate visitors of re-establishment efforts throughout Alta and help them identify sites in progress to avoid further damage. The design will include detailed photographs and short descriptions of common trail restoration and revegetation techniques applied nationally and within the ski industry.

The strategic location of the sign will increase the public’s awareness of potential impacts on the National Forest, thereby encouraging responsibility and ownership for the wellbeing of natural areas and enhancing everyone’s recreational experience.

Crested Butte Mountain Resort, Colorado  
Electric Bike for Resort Maintenance  
Grant Amount: $3,500

In keeping with Crested Butte’s mountain biking culture, grant funds will help purchase an electric bike that will be used for small tasks around the resort instead of using a pickup truck.

Last season Crested Butte purchased two 14-passenger electric shuttles that provide an excellent customer service experience for guests arriving at the day-skier parking lot. To continue its pursuit of alternative energy vehicles, Crested Butte will use grant funding to invest in an electric utility bicycle for the resort’s lodging and properties department. Crested Butte’s lodging/properties department has over eight full-time employees that currently use resort pickup trucks for the smallest tasks. They manage over 200 properties within a 2-mile radius and with a 500 foot elevation gain.
While some tasks can be taken care of on foot, the majority are small errands that must be responded to more quickly and efficiently. Most trips are short and only require someone to open a locked unit or change a light bulb. A typical Crested Butte pickup will get 15 to 20 miles per gallon – an electric bicycle will save 5,000 to 7,000 vehicle miles each year. Similar in appeal to the branded Crested Butte electric shuttles, the electric bike will generate interest and have a high visibility factor while tooling around the resort.

The electric bicycle itself is not a regular bicycle adapted for electric use. Instead it was designed from the ground up as a powerful and economic electric bicycle using the most advanced components in electrical as well as bicycle technology. It can be charged in 20 minutes and, similar to a hybrid, recharges the power pack while being ridden.

**Grand Targhee, Wyoming**

**Water Bottle Refilling Stations**

**Grant Amount: $5,000**

In an effort to eliminate the sale of bottled water throughout the resort, this grant funding will support installing two high-quality water bottle refilling stations with adjacent educational signage in high use areas.

These refilling stations, one interior and one exterior, will be plumbed into the existing infrastructure and flush with the walls. Other areas throughout the resort will have portable refilling stations. The resort wants to make water available from existing taps and encourage guests to use refillable water bottles and refill their water straight from the source. Resort water has consistently tested at higher quality than U.S. Environmental Protection Agency (EPA) regulated water (bottled water). Furthermore, the Department of Environmental Quality voted this water some of the best-tasting in the country. The resort already has signage up at all of its drinking fountains touting the water and encouraging people not to use bottled water.

The next step, once sufficient refilling stations are installed, is to eliminate the sale of bottled water throughout the resort. Grand Targhee plans to sell water bottles at a very competitive price for guests. These water bottles will play multiple roles in the project by creating a uniform public display of commitment to the Charter by reducing waste, highlighting the high quality of the resort’s existing water supply, acting as a profit-share mechanism and raising money for local water quality projects, and finally they will serve as a symbol in rallying customer support for and action toward the resort’s sustainability efforts.
Stevens Pass, Washington
Compost Pilot Project
Grant Amount: $5,000

Stevens Pass is pursuing a compost program for three great reasons:

1. The resort can take a waste product that generates greenhouse gas during decomposition, turn it into a valuable commodity, and thereby reduce its carbon footprint.

2. The cost of composting is less than garbage hauling and disposal.

3. The resort can respond to the desires of its environmentally-progressive guests from the Seattle Metro region who already enjoy curbside composting, and educate those arriving from other locations.

In the second phase of a three-phase project, grant funding will be used to double the amount of compost currently collected and will encompass all of the kitchens in the resort. Educational materials will be an important aspect of this project.

Stevens Pass sustainability staff will expand the resort’s food compost program to include all three commercial kitchen locations and all remaining table-service restaurants. Currently, Phase I of the food waste pilot project captures spoiled food and pre-consumer scraps from the busiest base-area kitchen, the espresso bar, as well as post-consumer waste from the associated table-service restaurant. Collectively, these venues produce about 5 cubic yards of potentially compostable material per week throughout the winter. While quite successful to date, the resort can easily double this amount to 10 cubic yards by including all other kitchen and table-service areas. The grant will enable this expansion into Phase II, and also help lead ultimately to the final step of including the resort’s large, public, self-service cafeteria locations.

Over the past 24 months, Stevens Pass has expanded its use of re-usable, washable tableware, but some cafeterias still employ single-use, disposable paper containers and all generate some post-consumer food waste. The resort has made a concerted effort, now almost 100% complete, to switch out disposable food and beverage containers with certified biodegradable and compostable cornstarch, paperboard, or bioplastic substitutes. This reduces reliance on non-renewable petrochemical products, and paves the way for the Phase III goal of all possible post-consumer items (such as paper food trays, utensils, cups, napkins, etc) being composted or recycled.
A total of 61 resorts provided information for the 2010 Sustainable Slopes Annual Report through the 2010 NSAA Member Survey conducted this spring. These resorts shared their ongoing activities and indicated areas of interest and ideas about moving forward as an industry. Forty-eight participating resorts from the United States, Canada, and Spain submitted summary statements about their efforts over the past year related to the Charter and its Principles. The ongoing resolve to reduce impacts through proactive measures is clear, and the ski industry can claim a leadership role in taking action against the adverse affects of climate change.

3.1 SURVEY RESULTS

Because NSAA is interested in learning about current sustainability-related practices across the industry, it developed a member survey to gauge the level of related activities and initiatives, collect resort preferences for sustainability services from NSAA, and solicit suggestions for sustainability-related future story topics in the NSAA Journal. Sixty-one member resorts responded to the survey this spring and preliminary results were presented at the National Convention in Orlando.

What is really remarkable is the breadth and range of conservation initiatives underway at member resorts. These initiatives are aimed at conserving energy and water, reducing solid waste, educating employees and guests, and partnering with communities. What is clear from the survey is that resorts are making great strides with both low-hanging fruit and with longer-term programs. Some examples include the following:

- High-efficiency lighting upgrades, timers, and occupancy sensors
- Programmable thermostats
- Building automation systems, including guest room thermostat controls based on occupancy
- Building envelop improvements (insulation, low-e glass, weatherization, window treatments)
- Building audits and retro-commissioning
- Snow-melt controls
• Low-flow or no-flow water fixtures
• On-demand hot water
• ENERGY STAR™ appliances
• Efficient engines in grooming fleets and 4-stroke motors for snowmobiles
• Biodiesel
• No idle policies
• Efficient snowmaking, including variable frequency drives, fan guns, compressor efficiencies, operating procedures, etc.
• Recycling
• Composting
• Reduced consumables, particularly in kitchens and restaurants
• Environmentally preferable purchasing
• Bussing and car pooling
• Employee/guest challenges

Not only are resorts engaged in proactive programs, they are interested in learning about and doing much more. Eighty-three percent of responding resorts would like to be more informed about energy issues related to the ski and hospitality industry. Seventy-four percent indicated they are interested in learning more about water conservation and water quality. Fifty-four percent are interested in conducting greenhouse gas inventories as part of their overall climate strategies. And there was better than 50% interest in topics including solid waste, renewables, and community collaboration. Beyond these general topics, resorts proposed other issues that are important to their operations:

• Transportation
• Green building
• The economics of conservation and renewable energy
• Potential funding sources for improvements and innovation
• Composting and recycling
• Wind energy
• Ski area impacts on climate change and how to make a difference one resort at a time
Many resorts are already addressing the topics included in the survey in their operations and shared their success stories for this annual report.

**Alta Ski Area, Utah**  
**2010 Sustainable Slopes Grant Winner**

The Alta Environmental Center greatly evolved in 1 year by setting up Alta Ski Area’s framework for pursuing sustainability. The Center created a working infrastructure, developed internal and external support and relations, identified guiding principles and objectives, and completed Alta’s greenhouse gas emissions baseline (by completing 2007 to 2009 inventories). Alta will complete a full analysis of the greenhouse gas baseline this summer (2010) in order to set quantitative annual goals for reducing the resort’s carbon footprint and increasing efficiency and cost savings. As the next goals are developed, Alta is pleased to report progress on 2009/10 qualitative goals:

1. **Decrease greenhouse gas emissions through an emphasis on improved energy management by increasing education and campaigning with local partners.** This year, Alta increased employee awareness in order to reduce electrical consumption in lighting and heating, which spawned 2010/11 initiatives to complete efficient lighting upgrades throughout the resort, complete a comprehensive energy audit, and implement summer operational energy reduction and cost saving practices.

2. **Increase public transportation and carpooling among skiers and employees by promoting the new Alta Commute Program (https://alta.mycommuteoptions.com/login).** The program accrued 100 users and reduced at least 500 tons of greenhouse gas emissions in transportation.

3. **Determine areas to improve current practices in waste management by improving methods for tracking waste generation and recycling costs and volumes. Set a quantitative goal based on current diversion rate and waste volume.** Work toward this goal is in progress. Successful means for tracking recycling have been identified, waste generation tracking is in progress, and quantitative goals will be set in summer 2010.

**Arapahoe Basin, Colorado**

A-Basin continued to improve and develop its composting program this season. In the past, the resort composted kitchen waste in The Legend’s Café. New this season, the resort is composting at all employee events and Black Mountain Lodge Snowshoe Dinners. A-Basin also encourages its employees to compost while at work and to compost food waste from home. The resort strongly encourages guests and employees to carpool and ride the free Summit Stage by providing lift ticket discounts to guests and incentives to employees. In addition, A-Basin is an advocate of local environmental organizations. The ski area matches employee donated funds to local environmental groups and sponsors an event and a club that both benefit the local
conservation center. During the 2009-2010 season, A-Basin implemented a number of guidelines and policies for employees to follow. These policies include reduced vehicle idling, reduced resource use (energy, water, materials, etc.), recycling, and composting. And finally, the green team is working with individual departments to establish more sustainable ways of doing business.

**Arizona Snowbowl, Arizona**
As a result of the economic conditions and other limitations outside the resort’s control, its upgrade plans have been put on hold.

**Baqueira Beret, Xavier Ubeira, Spain**
Baqueira Beret is in the process of implementing a new environmental program. The resort is keeping with its recycling program regarding the possibilities on the mountain. Baqueira Beret would like to highlight that it uses a helicopter to transport the mountain's trash, ensuring the fast and clean transport of trash to the waste center.

**Bear Valley Mountain, California**
Last season, Bear Valley Mountain made the commitment to a phased approach to 100% renewable energy. In 2008/08, the resort’s renewable energy use was 33% of the total, during 2009/10 season, this increased to 66%, and next season the resort will be 100% renewable energy based. Also, Bear Valley Mountain subscribes to the "Climate Smart" plan with PG&E, which makes the day lodge energy use carbon neutral. If the 10,000-square-foot vehicle maintenance shop lighting retrofit proves its worth, the resort intends to do a similar upgrade to the 50,000-square-foot Day Lodge.

**Beaver Creek Resort, Colorado**
Beaver Creek Resort is on target to meet its 10% Energy Reduction goal in August of 2010 and the resort is in the process of setting its next energy reduction goal. In addition, Beaver Creek will continue to expand its landfill diversion program.

**Belleayre, New York**
Belleayre has eliminated a diesel powered generator and has converted its pump house to electricity. The resort also is in the process of eliminating kerosene heaters and replacing them with LP gas heaters. Belleayre has upgraded furnaces to energy efficient models, and all new furnaces and appliances purchased are stamped energy star. The resort also has gone 100% green with its cleaning products. In the offices, the resort has taken steps to eliminate excess paper by setting its copiers to two-sided printing and resort reports are now viewed online as opposed to printing copies for all departments. Belleayre has eliminated duplicate and unwanted magazines and catalogs, is using reusable interoffice envelopes, and purchases only 100% recycled copy paper.
**Big Sky Resort, Montana**

Big Sky Resort has formed a green team that is comprised of representatives from every division and department across the company. The focus of the group is identifying conservation opportunities within each division of resort operations. In addition, the group’s strength is that it provides all levels of employees a venue for contributing to best practices through their representative. This message is communicated early and often to staff. The past year a major focus has been on energy conservation, particularly during the off-seasons when creative solutions can really make a difference, including introducing "Big Sky Unplugged" with success. With those practices in place and looking to the future, the goal of the team and company is to dive deeper into best practices by using a process improvement model to research and identify practices and systems that can be implemented at a departmental level.

**Blue Mountain Resort, Ontario, Canada**

Blue Mountain Resort has recently focused its efforts on energy and emissions reduction. Upgrades to the snowmaking system as well as changes to how the system is managed resulted in a reduction of approximately 1.8 million kWh compared to the previous season. Remote-access thermostats were installed at the Blue Mountain Inn to better manage heating and cooling in 90 hotel rooms, thus improving overall energy efficiency. In July 2009, the resort launched its Employee Bike Share Program to help minimize on-resort vehicle travel and associated fuel costs and greenhouse gas emissions. A fleet of bicycles is available spring through fall at designated bike racks across the property for staff to use. The resort also ran its 2nd annual Tour de Bleu Employee Bike Challenge, an 8-week program challenging resort employees to replace their vehicle use with bikes wherever possible. In 2009, participants collectively rode 5,882 kilometers, thus avoiding the production of 1.63 tons of CO₂. Approximately 50% of the resort's on-road vehicles participated in vehicle monitoring technology studies during the 2009/10 winter season to study driver behaviors that influence fuel economy, such as vehicle idling time, hard accelerations, and decelerations and to identify opportunities to improve resort fuel efficiency.

**Breckenridge Resort, Colorado**

Breckenridge has made progress toward its goal of a 10% reduction in energy use over 2 years through behavioral change and equipment controls/upgrades. Reduced use of snowmobiles has cut unleaded fuel consumption by over 20%, while more efficient operation of snow cats lowered diesel consumption by over 5%. Breckenridge is working with its electrical utility to perform detailed analyses of electricity use and to prioritize opportunities for improved efficiency with the hope of implementing some efficiency improvements before next season and continuing these improvements for several years. In addition, Breckenridge plans to start collecting food waste for composting in summer 2010 with the goal of implementing a resort-wide composting program for next winter.
Bretton Woods, New Hampshire
This season, Bretton Woods chose to focus on areas where it could conserve resources and improve efficiencies. The resort looked closely at areas where it could reduce energy consumption, reduce waste, and reuse materials where appropriate. This approach was quite successful, as Bretton Woods not only improved its environmental impact, but also reduced its operating costs significantly. The resort replaced weather stripping on all of the main doors, added programmable thermostats to many of the heat systems, and added programmable timers to exterior lighting, which helped reduce energy consumption. The resort’s existing recycling program continued to grow by working with the kitchens to ensure they are capturing as many recyclable items as possible, which also helps reduce waste volume and transportation costs. The maintenance department incorporated used building materials into many of their projects, used more durable products to increase the longevity of their repairs, and focused on minimizing the amount of waste generated by these projects. This effort helped reduce consumption of new building products and reduced waste output. Overall, the idea of conserving resources proved to be environmentally sustainable and economically sound as well. Bretton Woods will continue to take only what it needs and use all of its resources as efficiently as it can.

Crested Butte Mountain Resort, Colorado
Crested Butte Mountain Resort’s Environmental Policy is as follows:

Crested Butte Mountain Resort is dedicated to the preservation of the Gunnison Valley’s intrinsic beauty and fostering a culture among its guests and employees that promotes the importance of environmental stewardship. The success of our business depends on balancing environmental, community and economic concerns to ensure the longevity and sustainability of our valley for future generations. We commit ourselves to the implementation and enhancement of the following Environmental programs:

- Resort-wide solid and hazardous waste reduction and recycling
- Community planning for sustainable development now and in the future
- Energy efficient design and construction
- Seeking and implementing energy reduction measures for operations and administration
- Active partnership with the Office for Resource Efficiency (ORE) to increase awareness and develop strategies for energy efficiency in the Gunnison Valley
- Partnership with the Gunnison Valley Rural Transportation Authority to incentivize the use of mass transit
- An Environmentally Preferable Purchasing Program within our Hospitality Division and partnering with suppliers to reduce waste and utilize more eco-friendly products within our hotel and lodging facilities
- Exploration of new energy efficient technologies to minimize the resort’s carbon footprint
• Supporter of the NSAA Sustainable Slopes program

Crested Butte Mountain Resort will strive for continuous improvement of its environmental performance by quantifying and measuring the results of each green program and communicating this information in a transparent manner.

Crystal Mountain, Washington
Crystal Mountain has implemented the following programs:

• Green tag program that encourages guests to support renewable energy by offering min-green tags for purchase
• Fish habitat protection that strives to protect and preserve fish habitat through good management of the Silver Creek watershed and proper maintenance of sewage and water treatment facilities
• Cardboard recycling
• Fry grease recycling
• Vehicle shop recycling, which includes collecting waste oils for use in furnaces that heat the operations area, capturing and recycling antifreeze, washing mechanical parts in a high-pressure non-solvent parts washer, and scrap metal recycling
• Vegetation Management Program for maintaining maximum forest cover that is compatible with safe and varied skiing and snowboarding
• Proud charter member of Sustainable Slopes
• Master plan that ensures all area improvements will embrace state of the art environmental features

Deer Valley Resort, Utah
Deer Valley continues to instill a culture of environmental sustainability that ensures the resort stays green. The Green Team was developed 3 years ago to increase awareness of resort sustainability efforts. During the 2009/10 season, Deer Valley saw an additional increase in resort recycling programs and a resort supervisor was named recycler of the year by Recycle Utah in 2009. Deer Valley’s environmental intern is charged with educating children in the Academy as well as staff around the resort and organized a lodging sustainability meeting. In addition, Deer Valley continued to make energy efficiency upgrades around the resort. And 100% of new construction at Deer Valley contains energy efficient installations, including energy efficient lighting, motion sensor lighting, high efficiency heating systems, highest quality insulation, and T8 power supplies. Beyond the slopes, Deer Valley’s chefs have concentrated on reducing their impact. Copper Moose Farm, a local Park City producer, supplies the kitchens with fresh herbs, lettuce, and flowers. The Royal Street Café features a Niman Ranch burger. The Ranch has been at the forefront of supporting sustainable agriculture and animal welfare. Chefs continue to check the Monterey Bay Aquarium’s Seafood Watch website daily to ensure that Deer Valley is purchasing sustainable fish products.
**Grand Targhee Resort, Wyoming**
The resort reached a 47% waste diversion rate and reduced glass waste by 50% through a bottled beverage replacement program. Grand Targhee also implemented an energy conservation program that engages both guests and employees and reduced average electricity use 10% below the 5-year average over the past 6 months. Employees were paid by the resort to complete over 500 hours of community service. Also, the resort distributed a record $10,000 this past winter season through an employee-funded, resort-matched grant process to non-profits for environmental projects in the local community. Goals for next winter season are to reach a 50% waste diversion rate, maintain the 10% electricity reduction goal, eliminate the sale of plastic bottled water throughout the resort, and encourage other resorts to do the same.

**Greek Peak Mountain Resort, New York**
Having nearly completed its first significant green building expansion with the opening of Hope Lake Lodge and Cascades indoor water park, the resort’s goal over the next year is to upgrade staffing and outreach to achieve the expectations of a sustainable operation.

**Gore Mountain, New York**
Gore continues to make inroads into recycling, finding additional materials and quantities to recycle. The resort also continues to reduce energy consumption as it manages its snowmaking hours and vehicle miles more closely, and as building heating/cooling systems are improved and temperatures are maintained and scrutinized. Gore Mountain uses biofuel exclusively for all diesel applications and heating oil was cut to zero by the total replacement of the lodge heating system with a modern, state-of-the-art propane system. Stormwater monitoring has increased dramatically, including the number of different tests performed and an increased number of testing locations in several separate watersheds on the property to see baseline and storm runoff results for previously improved land and to monitor the impact of new construction.

**Holiday Valley, New York**
Holiday Valley’s energy saving program consisted of snowmaking, grooming, and machinery improvements. For the 2009/10 season, the resort installed 30 low energy snow guns on the front line trails. The older technology, low energy guns were moved to secondary trails to replace their less efficient air/water guns. Holiday Valley continues to test and make advancements in its snowmaking automation to reduce energy use per consumption and increase the system efficiency. In addition, the snowmobile fleets were moved to 4-stroke engines, which reduce emissions and noise pollution and lowers oil consumption. The grooming fleet is moving to tier 3 engines for better fuel economy and the resort has found a 50% reduction in fuel consumption on the newer machines. Holiday Valley is using a vegetable-based hydraulic oil in snow cats versus petroleum-based product to reduce environmental impacts. And finally, the resort is offering single stream recycling in all base lodges to guests and plan to improve this program next year with additional exposure and participation.
Jackson Hole Mountain Resort, Wyoming

Using a baseline of the 2009 calendar year when the new restaurant and tram were fully operational, Jackson Hole Mountain Resort (JHMR) commits by the beginning of the 2015 calendar year to accomplish the quantitative environmental goals listed below. Each of the goals will be measured as intensity per skier visit to emphasize operational efficiency and enable business growth. JHMR’s progress will be monitored annually through independent external audits by KPMG or another ISO 14001 registered auditor.

- Reduce by 10% or more by 2015
  - Electricity, fuel, and propane use
  - Water consumption
  - Annual waste production, both solid and hazardous
  - Total CO₂ emissions
- Increase by 10% or more by 2015
  - Recycling volumes

JHMR’s Environmental Policy is as follows: JHMR will grow in harmony with its environment by developing and implementing a comprehensive environmental program. To implement our environmental policy, JHMR commits to:

- Follow applicable environmental laws and regulations.
- Follow the principles of NSAA Sustainable Slopes Charter.
- Establish targets for pollution prevention.
- Continually review and improve our environmental program.
- Communicate our environmental work and policy to employees and the public.
- Meet our 10x15 quantitative goals.

JHMR is third-party ISO certified as a "green" company. ISO 14001 certification is the most widely known and respected environmental stamp of approval, which demonstrates responsible management of the resort’s environmental impacts.

Keystone Resort, Colorado

Keystone Resort is committed to reducing its energy by 10%. The resort is actively working on ways to reduce consumption and make its operations more efficient in terms of electricity, natural gas, and fuels. As a company, Keystone had an overall reduction in energy use of 6.1% in 2009. Keystone engages its employees to be mindful of their usage and the resort is confident that reduction goals will be met in 2010. In addition, Keystone has 17 waterless urinals at two of its facilities, which saves approximately 750,000 gallons of water each year. The resort also has a large scale composting program that diverts food waste from the landfill and averages nearly 6 tons per month. Keystone hopes to double these efforts in the near future. The Environmental Department staff picks up the food waste and brings it to The Summit County Compost Facility. The Keystone Conference Center has upgraded its internal lighting system making it 100,000 kWh per year more efficient. And the resort has a curbside recycling
program that collects recyclables throughout the resort. Overall, the resort collects co-mingled, mixed paper, glass, cardboard, wood, appliances, scrap metal, and universal waste.

Loup Loup Ski Area, Washington
Loup Loup is working on cleaning and greening the base area for year round enjoyment. The resort continues its recycling program with everyday consumables and will be recycling more of its "bone yard" this summer.

Mission Ridge Ski & Board Resort, Washington
As in the past few seasons, Mission has been running on a reduced budget. Efforts to upgrade and reduce power consumption have been limited by the budget constraints now in place. The resort plans to work toward these changes when visits increase and the budget allows.

Mountain High Resort, California
Mountain High Resort has worked hard over the last year to reduce its environmental impacts on Southern California and the local eco system. The resort has continued to move forward in reducing energy consumption during the snowmaking process along with lowering the amount of hazardous waste generated during daily ski area operations. Mountain High also has installed Diesel Particulate Filters on all diesel-driven electrical generation snowmaking equipment. These filters reduce harmful particulate matter in the exhaust by 85% or more. The snowmaking system was once again upgraded this year by adding both energy efficient snowmaking fan guns and rebuilding older outdated air/water snow guns, thereby reducing energy consumption by as much 60%. Hazardous waste generation has been reduced by purchasing non-hazardous cleaning solutions. Finally, the janitorial department created a recycling program for plastic bottles and aluminum cans this year that reduced the amount of recyclables that were thrown away in the past. The continuation of these programs will benefit both the local environment and resort guest who recreate in the Angeles National Forest.

Mt. Abram Resort, Maine
Current resort owners purchased the resort in June 2008 and spent a year creating a Sustainable Slopes initiative. The resort has completed the initiative and is working to find funding to implement the initiative. The resort was awarded an HKD Snowmaking Grant in 2010. As a result of the snowmaking award, Mt. Abram will replace all of its internal mixing air and water ground guns with Low E Towers, allowing the resort to meet its snowmaking goals in roughly one third of the time required in years past without sacrificing snow cover reliability.

Mt. Hood Meadows Ski Resort, Oregon
During the challenging economic climate this past year, Mt. Hood has been looking at all the areas the resort can cut back. Luckily, many of the ways to reduce costs are the same ways to reduce carbon footprint. Examples of this are installing automatic motion sensor lighting controls throughout the resort, retrofitting lighting where needed, investing in energy efficient
appliances and electronics equipment, etc. Mt. Hood’s greatest accomplishment of the past year was the LEED (Leadership in Energy and Environmental Design) Gold and Silver certifications it received for its two newest building replacements. This was an investment in energy efficiency, water conservation, and occupant well being that will reap great rewards. The resort’s commitment to reducing waste allowed it to reduce the frequency of garbage collection service throughout the season, thus the cost of disposing of garbage. This savings was then reinvested into additional recycling receptacles placed prominently throughout the resort. The increase has provided opportunities that enable guests to divert even more materials from the landfill. Going forward, Mt. Hood will continue to seek opportunities to improve its efforts and use its voice for the greatest good.

Mt. Rose – Ski Tahoe, Nevada
In the last year, Mt. Rose has focused on the final design and construction of a new lodge (restaurant and bar). While the resort did not seek a LEED certification, it instructed all those involved to follow strong environment principles at every stage. Some examples of this effort include the following:

- Site and exterior – site selected to minimize earthwork and vegetation disruption
- Low-e glass and shades for solar shading
- Super insulated building structure - R50 roof and R19 for walls
- Interior - use of natural daylighting and views in public areas minimizing the need for artificial lighting
- Evaporative cooling to reduce energy use related to air conditioning

In addition, plans have been finalized to install three 1.2-kW wind turbines this summer.

Okemo Mountain Resort, Vermont
The resort continues to slowly improve with budgets that severely constrain moderate to large-scale initiatives. The recycling integration continues to expand resort-wide with diversion totals anticipated to follow growth trends. Energy retrofits maintain an excellent return on investment and low hanging fruit are being checked off the list. Okemo’s lodging operation continues to polish its image as a “Green Hotel” by evaluating products used as well as service delivery.

Pats Peak, New Hampshire
Pats Peak is constantly exploring renewable energy options available along with their return on investment, which tends to be long and not always practical. The resort will continue to review these opportunities on a case-by-case basis.

Powderhorn Resort, Colorado
Powderhorn recycles cardboard, aluminum cans, plastic, glass, office paper, catalogs and newspaper, shredded paper, batteries, ink, and toner cartridges.
Powder Ridge Ski Area, Minnesota
The resort is continually upgrading to more environmentally friendly practices and products.

Ragged Mountain Resort, New Hampshire
Ragged Mountain has mainly been working to retrofit lighting at this stage.

Schweitzer Mountain Resort, Idaho
The results of the geothermal program have not yet been measured since it is a new development. However, the entire system is installed and is estimated to reduce utility costs by 60% in addition to saving on fuel and materials for road maintenance. During 2009/10, the resort recycled 19,000 pounds of cardboard, 6,600 pounds of paper, 318 pounds of aluminum, and 840 pounds of plastic. Schweitzer Mountain also continued its employee/guest education program, which (in 2009) resulted in a savings of over 11,000 therms of gas, 50 tons of solid waste, and 204,900 kWh of electricity. During the 2009/2010 season, the resort provided transportation for nearly 55,000 riders, saving 495,000 vehicle miles travelled. Schweitzer Mountain also continued to convert to more environmentally friendly products throughout the resort. By the end of 2009, Schweitzer Mountain converted the following products over to compostable products: hot beverage containers, fry containers, 10-inch paper plates, cold cups for coffee shops, recycle can liners, and retail shopping bags.

Sierra-at-Tahoe Snowsports Resort, California
Sierra-at-Tahoe focused its environmental program on two key education initiatives. Keep Sierra Clean Day involved members of the various high school teams that train and compete here at Sierra Resort, as well as pass holders, families of team members, and employees. All are invited to come up to the resort before the season started to help clean up all the garbage on the mountain. If not collected by hand, this garbage ends up sitting on the mountain, polluting critical stream zones and mountain forests. Teams split up, covering most of the mountain and much of the base area and parking lots. Once the teams return to the base area with the garbage they have collected, all of the garbage is weighed and awards are given out in categories, such as most weight collected, largest find, most interesting find, etc. The collected garbage is then sent to the local refuse center for proper disposal.

In partnership with TransWorld SNOWboarding, the resort produced a short video and images as part of the first ever TransWorld Team Shoot Out. The Sierra Resort segment was titled "Environmental Awakening." The concept behind the video, developed with photographer Ian Ruhter, was the same - a wake-up call that our actions have consequences for which we need to accept responsibility. The video addressed litter both on a small and large scale - from plastic bottles to appliances - as well as forest fires, air pollution, and greenhouse gas emissions. Overall, the imagery in the video and still shots was strong to the point of extreme, while simultaneously being very artistic, urging snowboarders to take seriously the human degradation of the environment.
**Snowshoe Mountain, West Virginia**

In 2009, Snowshoe Mountain recycled 620,000 pounds of cardboard, 1,500 pounds of plastic, 3,800 pounds of office paper, 9,800 pounds of brochures/magazines, and 800 pound of aluminum. In its operations, 5 out of 6 front line groomers meet the Tier III emissions standards, 310 of the 575 snow guns are low energy, and 70% of snowmaking is done at off peak hours. In addition, Snowshoe is in the process of implementing an anti-idling campaign to decrease idle time in buses, grooming machines, and company trucks. The resort also purchases wind energy credits to offset the Ballhooter lift.

**Squaw Valley USA, California**

Squaw Valley is and always has been committed to preserving the environment. The mountain is the resort’s greatest asset and Squaw Valley works tirelessly to protect and preserve it. Past efforts to improve energy efficiency and sustainability include the High Camp heat exchanger, Funitel hydronic heating and heat recovery, Gold Coast waste incinerator heat recovery, power retrofits regarding harmonics, lighting retrofits, snowmaking efficiency retrofits, and gun modifications. All these great past successes have kept Squaw Valley at the top regarding environmental stewardship; however, the resort has no interest in sitting back and resting on past accomplishments. This year marks Squaw Valley’s second year retro-commissioning all of its facilities to continue to reduce energy use throughout the company, including the newly acquired Village at Squaw Valley. These studies will be used to create a new, all-encompassing Sustainability Program for the mountain to be divided by department, giving each department new tools with which to track and document their energy use in order to target and fix problem areas. Goals for 2010/11 include further auditing and retro-fitting by building maintenance, purchasing energy efficient snow guns to replace less efficient equipment, and possibly aligning Food & Beverage with the “Slow Food” movement.

**Steamboat Ski & Resort Corporation, Colorado**

The Steamboat Ski & Resort Corporation has developed a strong position over the past 4 decades to protect the environment and provide responsible stewardship of the public and private lands on which the resort operates. Steamboat’s efforts have focused on the following areas:

- Zero Waste Initiative
- Composting and Recycling
- Energy Efficiency, Renewability and Sustainability
- Employee Task Force
- Energy Offsets
- Waste Management
- Water Conservation
- Energy Reduction
- Public Transportation
- Uniforms
- Community Partnerships & Outreach
- Interpretive Signage
- Nature Tours

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Steamboat Ski & Resort Corporation

2010 Silver Eagle Award Winner – Excellence in Waste Reduction and Recycling
- Grassroots Programs (Woolen and Beef)
- Fundraising Events
- Sustainable Slopes and Keep Winter Cool Programs
- Forest Stewardship
- Pine Beetle Mitigation
- Area Design
- Trail Developments
- Habitat Enhancement
- Environmental Grants

Steamboat has been awarded over $200,000 in environmental grants in the past 5 years, including its Zero Waste initiative, a 2010 Silver Eagle Award this year. In addition, Steamboat has been awarded grants for its award-winning area design, solid-waste recycling, comprehensive on-mountain natural and ecosystem resource management, protection programs, and charitable granting program. Steamboat is focused on continuing to set a high standard for resort environmental programs.

Stowe Mountain Resort, Vermont
In 2009, Stowe Mountain Resort (SMR) was certified by Audubon International as the first mountain resort in the United States to achieve its designation as an Audubon International Sustainable Destination. This certification required SMR to submit verifiable and measurable data that tracked the resort's progress in meeting a broad range of sustainable indicators in such areas as energy conservation, local food production, water quality protection and improvement, wildlife habitat protection, transportation alternatives, air quality improvement, and solid waste reduction. SMR continued its efforts to reduce waste generation by expanding and improving its food composting program initiated in 2008. And in 2010, SMR will increase the number of food outlets participating in the composting program and continue to promote sustainable operations and development in all aspects of the resort.

Sugar Bowl Resort, California
Sugar Bowl is working with all departments to minimize the resort's contribution to global climate change by reducing consumption of electricity, propane, gas, and diesel. Sugar Bowl's goal is a 10% reduction over 2 years. The resort offset 100% of its electricity use by purchasing Renewable Energy Certificates (RECs) from 3Degrees. The 4,072-megawatt hours (MWh) of clean, renewable electricity it is purchasing this year is equal to removing 579 cars from the road or converting 419 average households to renewable energy for 1 year. Sugar Bowl recycles! The resort uses blue bags for paper, glass, aluminum, and plastic. Corrugated cardboard only (no wax covering) are placed in cardboard recycling bins. Batteries, printer cartridges, and cell phones also are recycled. All vehicle oil is picked up by Safety Clean and recycled. All fryer oil is picked up by the El Dorado and recycled for bio-fuel used to power the casino.

Sugar Bowl subsidizes a free shuttle from Truckee to Sugar Bowl/Donner Summit and has a Ride Share board on its website for guests to organize carpools to get to Sugar Bowl. The resort also offers its guests the opportunity to offset the carbon emitted in traveling to Sugar Bowl.
Purchasing a $2 “Keep Winter Cool Ski Green Tag” supports wind facilities in Pecos County, Texas; Roosevelt, Washington; and Burleigh County, North Dakota. With the offset, guests receive a sticker and a Clif Bar. Sugar Bowl also offers a “Season Pass Ski Green Tag” for $20. Furthermore, the new Summit Chair was constructed with minimal impacts. No merchantable trees were removed, no roads constructed, no tractor grading was required, and the towers and top terminal were helicopter lifted in to hand-dug footings, minimizing overall impact. The chairlift is an almost 100% recycled/reused 1998 CTEC fixed grip chairlift that was removed from Christmas Tree in 2005 when it was replaced with a high-speed detachable.

Water quality and erosion control are important areas in the resort’s our environmental policy. Water on the mountain is protected by employing best management practices, such as straw bales, waddles, silt fencing, and re-vegetation. Annually Sugar Bowl budgets over $125,000 for trail and road maintenance and re-vegetation. Snowmaking is conducted in a manner that protects minimum stream flows and is sensitive to fish and wildlife resources. Snowmaking is performed with the utmost care and conservation using water from the resort’s own Lake Mary. This lake is maintained and stocked to ensure marine health. Sugar Bowl has installed oil separators and sediment ponds for parking lot storm water runoff collection; wells were also installed as part of a surface and ground water quality monitoring program. Since 2004, the resort has been taking water quality samples from various locations representing different areas of spring run-off from around the resort (generally May through July). A log is kept of the water sample results where trends and anomalies can be identified.

Sustainability is not new to Sugar Bowl, which uses 100% green cleaning products. The resort also uses 100% recycled content or compostable food service products and 30% recycled content office paper. Sugar Bowl runs 100% B20 biofuel in all its licensed highway vehicles. It uses solar panels to trickle charge batteries on chair lifts and 50% of its snowmobile fleet has been converted to 4-stroke engines. The resort continues to replace a couple old snowmobiles with new 4-stroke ones each year. In addition, Sugar Bowl is in the process of retrofitting old facilities with energy efficient lighting and water saving fixtures. And finally, the resort hosts its annual Environmental Awareness Day to promote sustainable skiing and environmental education and celebrate the ongoing environmental efforts of Sugar Bowl, its guests, and local environmental groups.

**Sunburst Ski Area, Wisconsin**

Sunburst Ski Area has a long history of environmental consciousness and continues to strive for a sustainable existence. The resort’s geothermal heating system heats the 10,000-square-foot maintenance/office complex with the most efficient system on the market. As Sunburst moves to more efficient snowmaking, it continues its efforts with annual upgrades.
Sun Valley Resort, Idaho
Sun Valley Resort’s environmental program has significantly expanded and improved since 2009. The most observable change is the considerable increase in the number of recycling stations throughout the resort and their effect. Made of 90 to 98% post-consumer recycled plastic, the resort has collected 300 tons of recyclable waste in these receptacles in the past year, which is 27% of Sun Valley’s total waste generation. Additionally, a significant swell in the recycling of potentially hazardous supplies and materials, such as engine oil, paint, ballasts, light bulbs, and batteries, has occurred within the past year through greater awareness and more accessible recycling stations. Other upgrades to Sun Valley’s sustainable practices include replacing failed toilets, showerheads, and faucets with low-flow fixtures; offering hotel guests the option to reuse their linens, thereby decreasing water and energy use by resort laundry facilities; replacing all dish washing chemicals and soaps with green products; and retrofitting a 17,381-square-foot storage facility with sustainable light fixtures, which cut the building’s lighting energy consumption roughly in half. Sun Valley has recently completed an environmental assessment in conjunction with a respected and experienced consulting firm. Expansion of the resort’s sustainability program will be implemented as the results and recommendations of this assessment are further developed.

The Canyons, Utah
The Canyons supports the development of renewable resources in the United States by purchasing approximately 20% of its total energy as renewable wind energy from Rocky Mountain Power through its Blue Sky Program. This is equivalent to 282 blocks of Blue Sky Energy. Purchasing 1 block of Blue Sky energy over 1 year is equivalent to offsetting more than a ton of carbon monoxide emissions. The Canyons continues to use a B20 biodiesel mix in all of the tracked diesel vehicles and the resort has converted to B50 during the summer months. In addition, the resort has expanded recycling of on mountain ELC, or extended life coolant. All paper collateral is printed on 70-pound Natural Web Gloss (FSC stock with 10% recycled content) Techno Alpin – Lowers overall horsepower use for fan guns. The guns are controlled remotely, eliminating the need to waste fuel traveling on the mountain. A new mid mountain booster pump house pumps more water with less energy. The Canyons also has a zero waste goal for pump house installation of heater controls in the operator shacks and lift canopies and snowmaking Facilities. Snow making upgrades also were completed on Doc’s Run. And finally, The Canyons has adopted a no idling policy on resort property.

Vail Mountain, Colorado
Vail Mountain has been actively engaged in reducing its energy consumption by 10% over the last 2 years. As a companywide initiative, each of its five ski areas has been challenged to find ways of improving efficiency and reducing use of electricity, natural gas, gasoline, and diesel. This initiative has been embraced by Vail employees and many success stories have emerged. Vail achieved a 6.1% reduction in the first year of the initiative and is on pace to achieve the remaining 3.9% for year two. The Vail Mountain Environmental Staff, along with Vail’s Foodservice employees, participated in a pilot program to introduce composting to its ski area.

Vail Mountain
2010 Silver Eagle Award Winner
– Excellence in Stakeholder Relations
This program diverts organic food waste from the landfill and produces a valuable product for summer flower planting. Another effort includes installing 10 waterless urinals. Each season these urinals save over 400,000 gallons of water. Installed in 2008, the 8.4-kW solar photovoltaic array atop Bailey’s at Eagle’s Nest has produced over 14,000 kW hours and saved over 24,000 pounds of CO₂. These are just a few of the many efforts that have been ongoing at Vail Mountain.

**Waterville Valley Resort, New Hampshire**
Efforts underway at Waterville Valley include replacing windows, adding insulation, replacing lighting, using biofuel in its transportation fleet, and upgrading heating plants.

**Whitefish Mountain Resort, Montana**
Whitefish Mountain plans to spend more than $100,000 this summer/fall to better control run-off water and maintain a high level of water quality in one area of the resort. In addition, every refrigeration replacement is done with non-CFC refrigerants. Whitefish Mountain continues to separate, compact, and recycle cardboard for all of the mountain's businesses as well as for homeowners who are on the trash collection system. The resort also provides a recycling point for businesses and homeowners for plastic, paper, and aluminum. Also, the resort recycles fluorescent light bulbs, paper of all kinds, restaurant cooking grease, vehicle oils and coolants, refrigerants, batteries of all kinds, paints and solvents, wire, plumbing copper, brass key blanks, wood from renovations, and computers and monitors. White Fish Mountain tries to be creative in using what it has. For example, the resort turns wire rope into hand rails and fencing and uses lift towers for zip line towers. The resort also uses green paper products in its facilities and managed properties. White Fish Mountain also has been researching glass crushing equipment to reduce glass waste as well as the glass from our season pass holders use for use at the resort. This is a far reaching goal.

**Wildcat Mountain Ski Area, New Hampshire**
Wildcat Mountain has been successful at recycling old building materials at the local community as it made remodeling efforts to base facilities. Examples of materials include metals, wood, siding, glass, and roofing. The resort has a good program of sending expired rubber from lift wheels and groomer tracks to the recycling center. Rebuilding water pumps and motors has reduced energy use. Solid waste from lodge restaurants is a difficult issue, although the resort does sort glass and cardboard. Wildcat Mountain needs need to work further to get a better program for recycling cans and plastic. Getting the materials to the proper waste recycler is the issue. The resort does not use biodiesel because of bulk storage issues and reliable sources, but it always is looking to move in this direction.

**Willamette Pass Resort, Oregon**
The resort is educating all staff members in ways that they have an effect that is positive towards the environment.
Wisp Resort, Maryland

The list of resort accomplishments includes the following:

- Employees and guests are able to participate in a resort-wide recycling program. Wisp collects cardboard, aluminum cans, all colors of glass, office paper, and plastics. Additionally, catalogues, magazines, phone books, old trail maps, and brochures are recycled.
- Wisp consistently encourages energy conservation throughout the resort by replacing appliances and lights with newer, more efficient models. One example has been purchasing energy-efficient copy machines for the offices.
- An energy audit of resort facilities was recently conducted to help the resort identify where and how it can reduce consumption.
- Wisp uses snowmaking equipment with increased energy efficiency ratings.
- The resort converts storage water from a liquid state to frozen snow. During spring melt-off, the water returns to the lake and groundwater for future use.
- Resort owners have created and preserved open space, including 550 acres of open space at Fork Run that was donated to the mountain top Adventure Sports Center, which is now subject to a perpetual and legally binding conservation easement. Also, Wisp Resort’s Planned Residential Development (PRD) provides for approximately 1,250 acres of additional open space.
- The resort is engaged in phased energy efficient lighting retrofits for all facilities.
- Energy efficient, quick recovery water heating systems have been installed throughout the resort.
- Wisp uses environmentally friendly products for sidewalk treatment during winter months.
- Under EPA guidelines, Wisp properly disposes of all paint waste products, contaminated unleaded fuel and diesel fuel, oil filters and absorbents and fluorescent lighting.
- The resort recycles a large amount of scrap steel, copper, brass, and stainless steel.
- All vegetable oils (which are 100% trans fat free) used in resort restaurants are recycled into bio-diesel.
- New commercial dryers have been installed in the hotel laundry facility that are more energy efficient and require less drying time. Additionally, new washing machines have been installed that have a higher extraction rate and reduce water use.
4.0 CONTRIBUTIONS OF PARTNERING ORGANIZATIONS

Natural Resources Defense Council

The NRDC is a national, non-profit organization of scientists, lawyers and environmental specialists dedicated to protecting public health and the environment. Founded in 1970, NRDC has more than 1 million members and e-activists nationwide. NRDC began partnering with the ski industry on Keep Winter Cool in 2003. Together, NSAA and NRDC have lobbied Congress on mandatory caps on CO₂ emissions, educated guests and the public about solutions to global warming, provided training to resorts on communicating on the topic of global warming and helped raise the visibility of the issue. NRDC contributes to the Sustainable Slopes Grant Program and is a judge for the Golden Eagle Awards.

CLIF Bar & Co.

Based in Berkeley, Calif., CLIF Bar & Co. is a leading maker of all-natural and organic energy and nutrition foods committed to sustainability from the field to the final product. The company has received local, state, and national awards for its environmental efforts, including multiple initiatives to combat and educate the public about global warming. Learn more at http://www.CLIFbar.com/environment. CLIF Bar is a partner in Keep Winter Cool and administers the Golden Eagle Awards for Environmental Excellence.

CLIF Bar has brought a number of new judges into the Golden Eagle Awards. Judges for this year’s awards include Michael Berry, NSAA president; John Steelman, National Resources Defense Council; Richard Cook, International Mountain Bicycling Association; Judy Dorsey, Brendle Group; Elysa Hammond, Clif Bar & Company; Loren Kroenke, U.S. Forest Service; and Greg Owsley, New Belgium Brewing Company.

*    *    *

NSAA would also like to recognize the Partnering Organizations that have helped us advance the Sustainable Slopes Program at some time over the past decade. These Partnering Organizations include:

Board of Teton County Commissioners
Bonneville Environmental Foundation
Colorado Department of Public Health & Environment
Conservation Law Foundation
CONTRIBUTIONS OF PARTNERING ORGANIZATIONS

Leave No Trace, Inc.
The Mountain Institute
National Fish and Wildlife Foundation
National Park Service
New York State Department of Environmental Conservation
Trust for Public Land
U.S. Department of Energy
U.S. Environmental Protection Agency
U.S. Forest Service
Wildlife Habitat Council
APPENDIX A: 2010 WINNING GRANT APPLICATIONS

2010 SUSTAINABLE SLOPES GRANT APPLICATION

Application deadline: 5:00 p.m. PST February 12, 2010

Contact Information:

Name of ski area: Alta Ski Area (ASA)

Name & Title of person submitting application: Tom Whipple—Building Maintenance/Electrical Director and Maura Olivo—Sustainability Coordinator

Mailing Address: Post Office Box 8007, Alta, Utah 84092

Email Address: tomw@alta.com and moilivos@alta.com

Telephone: 801.359.1078

Identify which of the 21 Principles of Sustainable Slopes is the subject matter of your initiative?

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<tr>
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Please note that while multiple applications (up to 3) may be submitted, only one application per Principle is permitted. Only one grant will be awarded per resort.

Size of Ski Area

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1. Are you applying for an HKD Snowmakers in-kind grant for Low-Energy snowmaking equipment? If yes, please answer questions a. through h. below. If no, please proceed to Question 2. □ Yes □ No

a. Has your resort conducted a comprehensive energy audit? □ Yes □ No

b. What energy conservation measures have already been taken by your resort?

   □

   □

c. Describe your resort’s need for Low-Energy snowmaking equipment, including the length and width of the trail and the required annual man made snow depth for the trail on which this in-kind grant will be used. Describe your current snowmaking system (water capacity, air capacity and equipment in use).

   □

   □

d. Has your resort made an investment in the last 5 years in Low-Energy snowmaking equipment? Explain.

   □

   □

e. Does your resort have the resources necessary to install this equipment? □ Yes □ No

f. Does your resort have the resources necessary to invest in more efficient snowmaking equipment if this grant is not awarded? □ Yes □ No
g. Please estimate your resort’s operational savings should you be awarded this grant. You are encouraged to analyze your current energy use and to utilize and document your own calculations to determine your savings. Operating savings should be calculated by comparing your current snowmaking cost to cover the terrain under consideration with the cost to do the same job using the HKD Low – Energy technology. You may wish to visit the HKD Snowmakers’ website and use their energy calculator found at http://www.hkdsnowmakers.com/hkd_energy_analysis.asp. This calculator asks for some basic assumptions about your system, terrain to be covered and energy costs. It then uses this information to estimate energy savings realized by using HKD SV10 towers. There are some fixed assumptions relating to temperatures and the performance of your existing equipment that may not be accurate for our resort. We encourage you to run your own calculations and document your energy costs and other costs that affect your payback.

h. How might you apply or reinvest the savings from this project? Is there a sustainability project that you could fund and implement with the energy cost savings afforded by this efficient snowmaking equipment?

-What is the project?

n/a

-What are the environmental benefits of the project?

n/a

-What is the total cost of the project?

n/a
2. **Summary:** In 300 words or less, please summarize the environmental project, activity or program for which you seek funding and its objectives.

*Please note that summaries of more than 300 words will not be accepted.*

| Alta Ski Area (ASA) seeks partial funding on a new approach to energy management for ski areas that manage high electrical loads implementing a SCADA system (System Control and Data Acquisition). Using real-time data the system will aid ASA with three main objectives:
| 1. Collect real time power use data for the whole ski area and Albion base facilities.
| 2. Analyze data to develop accurate load use profile.
| 3. Use load use profile to develop a plan to shift or drop loads and implement other energy savings methods to reduce peak demand and overall energy use.

Once these objectives are met we can implement the “control” capabilities of the SCADA system to implement objective #3.

3. Use load use profile to develop a plan to shift or drop loads and implement other energy savings methods to reduce peak demand and overall energy use.

The objectives will be implemented in phases. Phase I includes the three objectives described above. Phase II includes expansion of SCADA system to include other major energy use pods to develop specific load profiles for those areas and start control at the Albion Base of ASA. With the help of NSAA's Sustainable Slopes Grant we plan on implementing Phase I the summer of 2010 and Phase II the fall of 2010. If the data supports our primary objectives then a ski area wide system will be pursued incorporating the areas of greatest savings first.

**Application of Funds:** How would the grant funding be applied to the initiative (please identify the amount of grant money that you are seeking and the total cost of your project)?

- Total NSAA Grant Request: $3000
- Total Cost of Project: $12,450.00
- Materials and Cost--NSAA Grant: $3000.00
- Matching Materials and Cost--by ASA: $7750.00
- Matching Labor and Costs--by ASA: $1700.00

**Selection Criteria:** Please reply to the following questions, limiting yourself to 50 words or less per reply.

**Does your initiative:**

- **Demonstrate innovation in improving sustainability?**
  
  Yes. Utah is one of the fastest growing states in the country**, bringing increased dependence and strain on the local grid. In response, this energy networking system brings the needed initiative to approach energy management through peak demand response and overall reduced consumption—a new, more efficient manner for ski areas managing high loads.


- **Raise environmental awareness?**

  Yes. To pinpoint usage we must work with all departments in our ski area in order to understand our operational electrical needs, bringing new awareness to energy consumption. To further industry awareness and progress we will share the pertinent, benefits, and results of such a system.
**APPENDIX A: 2010 SAMPLE GRANT APPLICATION AND WINNING APPLICATIONS**

<table>
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<th>Promote concrete environmental actions?</th>
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<tbody>
<tr>
<td>Yes. Knowing when and where to reduce/shift electrical loads is the first step to reducing dependence on coal-fired power and reducing our carbon footprint.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Promote the goals of Keep Winter Cool?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes. Electrical consumption accounted for 86.6% of our 7,673 gsh emissions in 2008, proving to be our leading pollutant. If we want to feasibly tackle the reduction of carbon in the atmosphere (the leading cause to global warming) we need the data from this system to better manage our usage.</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>Have a high likelihood of success (and the necessary expertise and experience to achieve stated goals)?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes. ASA electricians (combined experience of 40 years) with the assistance of Rocky Mountain Power will oversee the installation. Upon installation our electricians will report findings to the company and manually manage power usage based upon monitor readings and data analysis (collected by them and other select employees).</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>Have the ability to be replicated by others in the ski industry?</th>
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</thead>
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<tr>
<td>Yes. Research supports the benefits of this system, but the task of moving forward can still be daunting. We hope our efforts will open viable options to support an energy management module that can feasibly be implemented by other ski areas.</td>
</tr>
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</table>

<table>
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<tr>
<th>Involve other partners, sponsors or underwriters?</th>
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<tr>
<td>Yes. Rocky Mountain Power is assisting with the acquisition of real-time data and Square D-Group Schneider will serve ASA with equipment and technical support.</td>
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</tbody>
</table>

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<tr>
<th>Rely on this grant money for implementation?</th>
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</thead>
<tbody>
<tr>
<td>Yes and no. This grant money will budgetarily support immediate implementation of the project (allowing a 2011 goal of a 6% decrease in electrical consumption to be set) versus further delaying the project until budget limits can be ratified (prolonging data collection on crucial early-season operations, i.e. snowmaking).</td>
</tr>
</tbody>
</table>

**Accomplishments: What are the expected results of the initiative?**

Data collected potentially supports:

1. Further installation of the SCADA system to include all ASA operations.
2. The installation of an automatic power system, significantly reducing stress off the grid during peak demand and reduced consumption.
3. A greater understanding to ASA's electrical consumption.
4. A new energy management approach to decreasing GHG emissions for the ski industry.
Measuring Success: Please quantify the program’s expected results using either a percentage or absolute value (e.g. 20% reduction in energy consumption or 500 tons of CO2 saved) or both if possible.

Direct measurable success will be seen in our power bills (detailing usage and cost by month and year). Summer 2010 installation and data will potentially support an electrical reduction goal of 6% for 2011 (or about 299,000 Kwhs or 316 tons of CO2 using ASAs 2008 ghg inventory).

References: List the name, email address and phone number of at least three references familiar with your initiative.

<table>
<thead>
<tr>
<th>Name</th>
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<th>Phone Number</th>
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</thead>
<tbody>
<tr>
<td>Scott Thornton (June Sabbeh)</td>
<td><a href="mailto:Scott.Thornton@PacifiCorp.com">Scott.Thornton@PacifiCorp.com</a></td>
<td></td>
</tr>
<tr>
<td>Rocky Mountain Power</td>
<td><a href="mailto:June.Sabbeh@PacifiCorp.com">June.Sabbeh@PacifiCorp.com</a></td>
<td></td>
</tr>
<tr>
<td>Steve Brunner–Brendle Group,</td>
<td><a href="mailto:sbrunner@brendlegroup.com">sbrunner@brendlegroup.com</a></td>
<td>970 207 0058</td>
</tr>
<tr>
<td>Engineer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trent Wicken – Square D Group</td>
<td>trent.wicken@us.schneider-</td>
<td>303-748-1564</td>
</tr>
<tr>
<td>Schneider</td>
<td>electric.com</td>
<td></td>
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A special thanks to our sponsors, CLIF Bar and HKD Snowmakers!!!!

Application deadline: 5:00 p.m. PST February 12, 2010
APPENDIX A: 2010 SAMPLE GRANT APPLICATION AND WINNING APPLICATIONS

2010 SUSTAINABLE SLOPES GRANT APPLICATION

Application deadline: 5:00 p.m. PST February 12, 2010

Contact Information:
Name of ski area: Alta Ski Area (ASA)
Name & Title of person submitting application: Maura Olivos—Sustainability Coordinator
Mailing Address: Post Office Box 8007, Alta, Utah 84092
Email Address: molivos@alta.com
Telephone: 801 359 1078 x 258

Identify which of the 21 Principles of Sustainable Slopes is the subject matter of your initiative?

| Planning, Design, and Construction | Product Re-use |
| Water Use for Snowmaking | Recycling |
| Water Use in Facilities | Potentially Hazardous Wastes |
| Water Use for Landscaping and Summer Activities | Fish and Wildlife Management |
| Water Quality Management | Wetlands and Riparian Areas |
| Wastewater Management | Forest and Vegetative Management |
| Energy Use for Facilities | Air Quality |
| Energy Use for Snowmaking | Visual Quality |
| Energy Use for Lifts | Transportation |
| Energy Use for Vehicle Fleets | Education and Outreach |
| Waste Reduction |

Please note that while multiple applications (up to 3) may be submitted, only one application per Principle is permitted. Only one grant will be awarded per resort.

Size of Ski Area
(Place an X in the box adjacent to the appropriate size description)

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1. Are you applying for an HKD Snowmakers in-kind grant for Low-Energy snowmaking equipment? If yes, please answer questions a. through h. below. If no, please proceed to Question 2. [ ] Yes [ ] No

a. Has your resort conducted a comprehensive energy audit? [ ] Yes [ ] No

b. What energy conservation measures have already been taken by your resort?


c. Describe your resort’s need for Low-Energy snowmaking equipment, including the length and width of the trail and the required annual man made snow depth for the trail on which this in-kind grant will be used. Describe your current snowmaking system (water capacity, air capacity and equipment in use).


d. Has your resort made an investment in the last 5 years in Low-Energy snowmaking equipment? Explain.


e. Does your resort have the resources necessary to install this equipment? [ ] Yes [ ] No

f. Does your resort have the resources necessary to invest in more efficient snowmaking equipment if this grant is not awarded? [ ] Yes [ ] No
APPENDIX A: 2010 SAMPLE GRANT APPLICATION AND WINNING APPLICATIONS

Please estimate your resort’s operational savings should you be awarded this grant. You are encouraged to analyze your current energy use and to utilize and document your own calculations to determine your savings. Operating savings should be calculated by comparing your current snowmaking cost to cover the terrain under consideration with the cost to do the same job using the HKD Low - Energy technology. You may wish to visit the HKD Snowmakers’ website and use their energy calculator found at http://www.hkdsnowmakers.com/hkd_energy_analysis.asp. This calculator asks for some basic assumptions about your system, terrain to be covered and energy costs. It then uses this information to estimate energy savings realized by using HKD SV10 towers. There are some fixed assumptions relating to temperatures and the performance of your existing equipment that may not be accurate for our resort. We encourage you to run your own calculations and document your energy costs and other costs that affect your payback.

How might you apply or reinvest the savings from this project? Is there a sustainability project that you could fund and implement with the energy cost savings afforded by this efficient snowmaking equipment?

What is the project?

What are the environmental benefits of the project?

What is the total cost of the project?
APPENDIX A: 2010 SAMPLE GRANT APPLICATION AND WINNING APPLICATIONS

2. **Summary**: In 300 words or less, please summarize the environmental project, activity or program for which you seek funding and its objectives.

*Please note that summaries of more than 300 words will not be accepted.*

**Interpretive Sign Project**

Albion Basin is a renowned destination for recreationalists and wildflower viewers from Salt Lake Valley and all over the world—and it is located within Alta Ski Area (ASA). In 2009 the basin received an average of 623** visitors a day and this number is growing by an average of 4%** each year. The increasing attention to Alta’s little haven has also increased stress on the native vegetation and revegetation efforts within ASA. There are a variety of efforts to inform visitors on the general information of Alta, but environmental educational signs do not exist within Albion Basin. It is apparent to ASA, and the community of Alta that we are in vital need of a sustainable interpretive program to meet the growing recreational and visitor demand.

ASA, along with partners the U.S. Forest Service Salt Lake Ranger District and Cottonwood Canyons Foundation (CCF), propose to start this interpretive program with one sign highlighted by a new restoration effort adjacent to Albion Basin’s most highly visited location, Catherine’s Trailhead and Parking Lot. This 20-car parking lot is one of the most accessible and exceptional viewpoints for all ages and abilities, and visitor impact is very apparent. This “restoration key” will educate visitors of re-establishment efforts throughout Alta and help them identify sites in progress, so as to avoid further damage. The design will include detailed photographs and short descriptions of common trail restoration and revegetation techniques applied nationally and within the ski industry.

The strategic location of the sign will increase the public’s awareness of their potential impacts on National Forest, thereby encouraging responsibility and ownership over the well being of natural areas and enhancing everyone’s recreational experience.

**Averages courtesy of the Town of Alta**

**Application of Funds**: How would the grant funding be applied to the initiative (please identify the amount of grant money that you are seeking and the total cost of your project)?

<table>
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<th>Total NSAA Grant Request: $1500</th>
<th>Total Cost of Interpretive Sign Project: $2600</th>
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</table>

- **Interpretive Sign Project Cost Details**
  - Estimated Cost of Sign: $1500
  - Estimated Matching Labor Funds: ASA $600, CCF $200, Forest Service $300
  - Labor includes: design of sign, collaboration time on design, and installation
  - Estimated Matching Funds for Cost of Restoration Project—adjacent to Interpretive Sign (includes labor and materials by ASA and CCF). CCF $1283, ASA $1600 = $3183

**Selection Criteria**: Please reply to the following questions, limiting yourself to 50 words or less per reply.

**Does your initiative:**

- **Demonstrate innovation in improving sustainability?**

Yes. Increased recreational demand on ski areas has also increased maintenance and protection of our open land and water. This sign will help visitors be aware that sustainability of our natural environment is a shared responsibility and show the industry the importance of including education within recreational and community planning.

A-10 SUSTAINABLE SLOPES ANNUAL REPORT 2010
APPENDIX A: 2010 SAMPLE GRANT APPLICATION AND WINNING APPLICATIONS

- Raise environmental awareness?
  
  Yes. This project is meant to be more than an information sign; it provides visitors with useful knowledge about how to identify restoration efforts, avoiding further ecological damage. This gained tool leads to a desire to learn and help more and promotes responsible recreational actions by encouraging involvement and ownership.

- Promote concrete environmental actions?
  
  Yes. Interpretive signs like our proposed Restoration Kay, promote the main paths to concrete environmental actions through awareness, education, and responsibility. To increase responsible actions within the ski industry and ski area patrons, the importance of sustainability must first be realized.

- Promote the goals of Keep Winter Cool?
  
  No, not directly. However, all initiatives towards educating our public on the shared responsibilities and importance of keeping our open spaces green, supports the sustainability of healthy ecosystems. Healthy ecosystems are an important element in managing carbon.

- Have a high likelihood of success (and the necessary expertise and experience to achieve stated goals)?
  
  Yes. Well-trained ASA employees will be in charge of the design of the sign, the Salt Lake Ranger District will supply ASA with input and the base design from our neighbor canyon, and CCF's experienced Trail Crew will aid in the installation of the sign.

- Have the ability to be replicated by others in the ski industry?
  
  Yes. The sign will highlight 1) basic elements used nationally to direct recreationalists on trails and 2) standard revegetation practices used throughout the ski industry. Any ski area looking to increase visitor awareness and improve restoration efforts will be able to incorporate this sign into their summer recreational program.

- Involve other partners, sponsors or underwriters?
  
  Yes. The Salt Lake Ranger District will be instrumental in the design process of the sign in order to have consistency with interpretive signs from our sister canyon, Big Cottonwood. The Cottonwood Canyons Foundation is our resource for volunteers and trail experts in restoration efforts and sign installation.

- Rely on this grant money for implementation?
  
  Yes. The adjoining restoration project will only be complete with the support of this grant to cover the interpretive sign. We also hope to install the sign by July 2010, in order to reach the majority of Alta's visitors—for another summer without this sign would be a lost opportunity.

Accomplishments: What are the expected results of the initiative?

With this interpretive sign, ASA and our partners hope to:
1. Educate hikers and visitors on how to recognize and avoid bringing harm to restoration efforts.
2. Raise public awareness of restoration efforts.
3. Increase interpretive sign efforts in Alta.
Measuring Success: Please quantify the program’s expected results using either a percentage or absolute value (e.g., 20% reduction in energy consumption or 500 tons of CO2 saved) or both if possible.

Success may be measured by observation of how well the restoration site remains unaltered and by its rate of recovery. If 50% of the transplanted and planted native vegetation survives to Autumn then the interpretive sign and full restoration project will be considered effective.

References: List the name, email address and phone number of at least three references familiar with your initiative.

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<tr>
<td>Carole Majeske</td>
<td><a href="mailto:cmajeske@fs.fed.us">cmajeske@fs.fed.us</a></td>
<td>801.733.2662</td>
</tr>
<tr>
<td>Recreation Manager</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U.S. Forest Service, Salt Lake Ranger District</td>
<td></td>
<td></td>
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<tr>
<td>Jessie Watthers</td>
<td><a href="mailto:jessiew@cottonwoodcanyons.org">jessiew@cottonwoodcanyons.org</a></td>
<td>801.947.8263</td>
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<tr>
<td>Executive Director</td>
<td></td>
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<tr>
<td>Cottonwood Canyons Foundation</td>
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<tr>
<td>Claire Runge</td>
<td><a href="mailto:ser@townofalta.com">ser@townofalta.com</a></td>
<td>801.391.6136</td>
</tr>
<tr>
<td>Assistant Town Admin</td>
<td></td>
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2010 SUSTAINABLE SLOPES GRANT APPLICATION

Application deadline: 5:00 p.m. PST February 12, 2010

Contact Information:

Name of ski area: Crested Butte Mountain Resort

Name & Title of person submitting application: John Sale, Director of Planning

Mailing Address: P.O. Box 6780 Mt. Crested Butte, CO 81225

Email Address: jsale@comr.com

Telephone: 970-349-4030

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1. Are you applying for an HKD Snowmakers in-kind grant for Low-Energy snowmaking equipment? If yes, please answer questions a. through h. below. If no, please proceed to Question 2.  

   [ ] Yes  [x] No

   a. Has your resort conducted a comprehensive energy audit?  

   [ ] Yes  [ ] No

   b. What energy conservation measures have already been taken by your resort?

   

   c. Describe your resort’s need for Low-Energy snowmaking equipment, including the length and width of the trail and the required annual man made snow depth for the trail on which this in-kind grant will be used. Describe your current snowmaking system (water capacity, air capacity and equipment in use):

   

   d. Has your resort made an investment in the last 5 years in Low-Energy snowmaking equipment? Explain.

   

   e. Does your resort have the resources necessary to install this equipment?  

   [ ] Yes  [ ] No

   f. Does your resort have the resources necessary to invest in more efficient snowmaking equipment if this grant is not awarded?  

   [ ] Yes  [ ] No
g. Please estimate your resort’s operational savings should you be awarded this grant. You are encouraged to analyze your current energy use and to utilize and document your own calculations to determine your savings. Operating savings should be calculated by comparing your current snowmaking costs to cover the terrain under consideration with the cost to do the same job using the HKD Low-Energy technology. You may wish to visit the HKD Snowmakers’ website and use their energy calculator found at http://www.hkdsnowmakers.com/hkd_energy_analysis.asp. This calculator asks for some basic assumptions about your system, terrain to be covered, and energy costs. It then uses this information to estimate energy savings realized by using HKD SV10 towers. There are some fixed assumptions relating to temperatures and the performance of your existing equipment that may not be accurate for your resort. We encourage you to run your own calculations and document your energy costs and other costs that affect your payback.

h. How might you apply or reinvest the savings from this project? Is there a sustainability project that you could fund and implement with the energy cost savings afforded by this efficient snowmaking equipment?

-What is the project?

-What are the environmental benefits of the project?

-What is the total cost of the project?
2. **Summary:** In 300 words or less, please summarize the environmental project, activity or program for which you seek funding and its objectives.

*Please note that summaries of more than 300 words will not be accepted.*

Last season Crested Butte Mountain Resort (CBMR) purchased 2 fourteen-passenger electric shuttles that provide an excellent customer service experience for guests arriving at our day-skier parking lot. The eco-shuttles are a fantastic hit with guests who appreciate a ride to the base area in an alternative energy vehicle, generating questions of interest of what other green initiatives CBMR is pursuing.

To continue our pursuit of alternative energy vehicles, CBMR is proposing to invest in an electric utility bicycle for our resort lodging and properties department. Crested Butte, birthplace of mountain biking and home of the Mountain Bike Hall of Fame is tantamount with leading the way of new innovative biking technologies. Our lodging/properties department has over 5000 full-time employees that currently utilize CBMR pickup trucks for the smallest task. They manage over 200 properties within a 2 mile radius and with a 500 foot elevation gain, while some tasks can be taken care of on foot the majority are small errands that require the ability to respond quickly and efficiently.

Most trips are very short and only required someone to open a locked unit or charge a light bulb. A typical CBMR pickup will get 15-20 miles per gallon; an electric bicycle could save over 5000 - 7000 vehicle miles each year. Similar in appeal to our branded CBMR electric shuttles, the electric bike would generate interest and have a high visibility factor while tooling around the resort.

**Application of Funds:** How would the grant funding be applied to the initiative (please identify the amount of grant money that you are seeking and the total cost of your project)?

CBMR would purchase an electric bike model OHIM XU700. The OHIM bicycle is not a regular bicycle adapted for electric use. Instead the OHIM bicycle was designed from the ground up as a powerful and economic electric bicycle using the most advanced components in electrical as well as bicycle technology. The XU700 can be charged in 20 minutes and similar to a Hybrid, recharges the power pack while riding. CBMR will customize with a utility basket or side panniers.

The cost of the OHIM Urban XU700 is approximately $3500, for which this amount is requested for the grant. CBMR would customize and license for street travel. There is an opportunity to brand the bike with sponsorship logos and decals such as “powered by Clif Bar”.

**Selection Criteria:** Please reply to the following questions, limiting yourself to 50 words or less per reply.

**Does your initiative:**

- **Demonstrate innovation in improving sustainability?**

  By reducing the need to purchase additional vehicles and revolutionizing how employees perform their day to day tasks will be motivational for other property management companies to follow suit. Crested Butte is very bike and pedestrian friendly, and the resort will benefit from taking yet another lead in sustainability.

- **Raise environmental awareness?**

  If branded correctly, guests and locals will notice immediately the statement that is made when your property management company arrives on an electric bike. Generating interest leads to awareness of what is possible, yet so simple.
• Promote concrete environmental actions?

By giving our employees and guests the choice of utilizing alternative energy vehicles, we hope that they too will consider alternatives in their everyday life to create a more sustainable planet.

• Promote the goals of Keep Winter Cool?

Alternative energy vehicles will reduce carbon loading into our atmosphere and are great examples of how to live simple and still work efficiently. Climate change is critical to the ski industry and we need to change the paradigm of thinking what works or is necessary.

• Have a high likelihood of success (and the necessary expertise and experience to achieve stated goals)?

The likelihood of success is very high by supporting this grant initiative for alternative energy transportation. Since this is a strong biking community, there is little doubt that the electric bike will be used to the greatest degree and vehicle miles reduced in the lodging property management department.

• Have the ability to be replicated by others in the ski industry?

Without a doubt, this can be used at every resort. Crested Butte is located at an elevation of 9300 feet high and CBMR will customize snow tires for winter use.

• Involve other partners, sponsors or underwriters?

No other partners for this grant application.

• Rely on this grant money for implementation?

CBMR will rely solely on receiving funds for the electric bicycle, however if awarded, we have budgeted additional funds to customize, modify and create the bike for many years of road travel.

Accomplishments: What are the expected results of the initiative?

Based upon the current mileage of a typical CBMR pickup and yearly usage, the savings of generating carbon emissions would be approximately 7,113 tons of CO2 each year. In addition, lead the way for other companies to investigate alternative energy vehicle options for their daily business and personal lives.

Measuring Success: Please quantify the program’s expected results using either a percentage or absolute value (e.g., 20% reduction in energy consumption or 500 tons of CO2 saved) or both if possible.

A savings of approximately 7,113 tons of CO2 each year.
References: List the name, email address and phone number of at least three references familiar with your initiative.

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<thead>
<tr>
<th>Name</th>
<th>Email Address</th>
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<tbody>
<tr>
<td>Eli Haine</td>
<td><a href="mailto:eheine@cbmr.com">eheine@cbmr.com</a></td>
<td>970-349-4600</td>
</tr>
<tr>
<td>Lynn Kikievtich</td>
<td><a href="mailto:lkievich@cbmr.com">lkievich@cbmr.com</a></td>
<td>970-349-4660</td>
</tr>
<tr>
<td>Ken Stone</td>
<td><a href="mailto:kstone@cbmr.com">kstone@cbmr.com</a></td>
<td>970-349-4768</td>
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A special thanks to our sponsors, CLIF Bar and HKD Snowmakers!!!!
Application deadline: 5:00 p.m. PST February 12, 2010
APPENDIX A: 2010 SAMPLE GRANT APPLICATION AND WINNING APPLICATIONS

2010 SUSTAINABLE SLOPES GRANT APPLICATION

Application deadline: 5:00 p.m. PST February 12, 2010

Contact Information:

Name of ski area: Grand Targhee Resort

Name & Title of person submitting application: Christina Thomure, Director of Sustainable Operations

Mailing Address: 3300 E Ski Hill Road

Email Address: cthomure@grandtarghee.com

Telephone: 208-755-0252 or 307-353-2500, ext 1376

Identify which of the 21 Principles of Sustainable Slopes is the subject matter of your initiative?

<table>
<thead>
<tr>
<th>Principle</th>
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<tr>
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<td>Water Use for Snowmaking</td>
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<td>Water Use in Facilities</td>
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<td>Water Use for Landscaping and Summer Activities</td>
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<td>Water Quality Management</td>
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<td>Wastewater Management</td>
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<td>Energy Use for Lifts</td>
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<td>Energy Use for Vehicle Fleets</td>
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<tr>
<td>Waste Reduction</td>
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Please note that while multiple applications (up to 3) may be submitted, only one application per Principle is permitted. Only one grant will be awarded per resort.

Size of Ski Area

(Place an X in the box adjacent to the appropriate size description)

<table>
<thead>
<tr>
<th># of Annual Skier/Boarder Visits</th>
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<tr>
<td>Less than 100,000</td>
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</table>
1. Are you applying for an HKD Snowmakers in-kind grant for Low-Energy snowmaking equipment? If yes, please answer questions a. through h. below. If no, please proceed to Question 2.  
   [] Yes  [x] No

   a. Has your resort conducted a comprehensive energy audit?  
      [ ] Yes  [ ] No

   b. What energy conservation measures have already been taken by your resort?

   c. Describe your resort’s need for Low-Energy snowmaking equipment, including the length and width of the trail and the required annual man made snow depth for the trail on which this in-kind grant will be used. Describe your current snowmaking system (water capacity, air capacity and equipment in use).

   d. Has your resort made an investment in the last 5 years in Low-Energy snowmaking equipment? Explain.

   e. Does your resort have the resources necessary to install this equipment?  
      [ ] Yes  [ ] No

   f. Does your resort have the resources necessary to invest in more efficient snowmaking equipment if this grant is not awarded?  
      [ ] Yes  [ ] No
APPENDIX A: 2010 SAMPLE GRANT APPLICATION AND WINNING APPLICATIONS

Please estimate your resort’s operational savings should you be awarded this grant. You are encouraged to analyze your current energy use and to utilize and document your own calculations to determine your savings. Operating savings should be calculated by comparing your current snowmaking cost to cover the terrain under consideration with the cost to do the same job using the HKD Low – Energy technology. You may wish to visit the HKD Snowmakers’ website and use their energy calculator found at http://www.hkdsnowmakers.com/hkd_energy_analysis.asp. This calculator asks for some basic assumptions about your system, terrain to be covered and energy costs. It then uses this information to estimate energy savings realized by using HKD SV10 towers. There are some fixed assumptions relating to temperatures and the performance of your existing equipment that may not be accurate for our resort. We encourage you to run your own calculations and document your energy costs and other costs that affect your payback.

i. How might you apply or reinvest the savings from this project? Is there a sustainability project that you could fund and implement with the energy cost savings afforded by this efficient snowmaking equipment?

-What is the project?

-What are the environmental benefits of the project?

-What is the total cost of the project?
2. Summary: In 300 words or less, please summarize the environmental project, activity or program for which you seek funding and its objectives.

Please note that summaries of more than 300 words will not be accepted.

Our goal is to install two high quality water bottle refilling stations with adjacent educational signage in high use areas of the resort as a first step toward eliminating the sale of bottled water throughout our entire operations.

We’d like to install two refilling stations, one interior and one exterior, that are plumbed into our existing infrastructure and flush with the walls. Other areas throughout the resort will have portable refilling stations. We would like to make water available from our existing taps and encourage our guests to use refillable water bottles and refill their water straight from our pure mountain water. Our water has consistently tested higher quality than EPA regulated water (bottled water). DEQ voted our water some of the best-tasting in the country. We already have signage up at all of our drinking fountains touting our water and encouraging people to not use bottled water.

The next step, once we install sufficient refilling stations, is to eliminate the sale of bottled water through the resort. We will sell water bottles at a very competitive price, hopefully with the help of a sponsor.

These water bottles will play multiple roles in the project; they’ll create a uniform public display of commitment to our sustainability charter by reducing our waste, they’ll highlight the high quality of our existing water supply, act as a profit-share mechanism - raising money for local water quality projects and finally act as a change agent in rallying customer support for and action towards our resort’s sustainability efforts.

Application of Funds: How would the grant funding be applied to the initiative (please identify the amount of grant money that you are seeking and the total cost of your project)?

The amount of grant money we are requesting is $5,000. The total cost of the project is $10,000. The grant money is needed to design and produce the refilling stations and educational signage, and pay for parts. Installation labor and plumbing materials will be provided in-house.

Selection Criteria: Please reply to the following questions, limiting yourself to 50 words or less per reply.

Does your initiative:

- Demonstrate innovation in improving sustainability?

We are not aware of any resort in the country that is currently considering eliminating bottled water sales and encouraging customers to not use bottled water. To show this can be done without totally sacrificing the bottom line will go a long way in proving to other resorts its feasibility.

- Raise environmental awareness?

We’re making a strong public statement that bottling water is bad for the environment and bad for the well-being of the public. We are hoping to change the behavior of our guests by showing them it’s possible to go without bottled water, furthermore; it is the right thing to do.
• Promote concrete environmental actions?

If we raise environmental awareness and convince our guests and employees to not use bottled water, they'll be reducing their carbon footprints by using less petroleum and water in the production of bottled water, and energy in the production and distribution of bottled water.

• Promote the goals of Keep Winter Cool?

Our educational signage will include information on climate change and how eliminating bottled water use will directly reduce greenhouse gas emissions.

• Have a high likelihood of success (and the necessary expertise and experience to achieve stated goals)?

The success of this program will come from consumer education and providing suitable alternatives for customers. Our Retail, F&B, Sustainability, and Marketing Directors have all met frequently to put together a plan for successful execution. We have the support from the resort owner and the management team.

• Have the ability to be replicated by others in the ski industry?

This project can be easily replicated by other ski resorts by upgrading their current water fountains, adding educational signage, and training employees. For it to be highly successful, eliminating all bottled water is important to make a meaningful statement.

• Involve other partners, sponsors or underwriters?

We have approached Klean Kanteen and Camelback and are currently creating a proposal to submit for their review. Targhee could be a pilot program that, if successful, could be replicated by other resorts. This would be a great partnership and send a powerful message to winter sports enthusiasts.

• Rely on this grant money for implementation?

While management is on board with this, there are no customer service risks involved in implementing this program. There will be more support for this program if we can offset the lost revenue from bottled water. I do think this grant money is needed to make this project a priority.

Accomplishments: What are the expected results of the initiative?

To install 2 high quality water refilling stations with adjacent educational signage. We will do several press releases with each phase of the project to tell the world our story. Our goal is to convert 50% of bottled water users to refillable container users by the end of their stay.

Measuring Success: Please quantify the program’s expected results using either a percentage or absolute value (e.g. 20% reduction in energy consumption or 500 tons of CO2 saved) or both if possible.

Reducing our sale of bottled water by 8,000 units will decrease plastic bottle waste stream by 2 tons. Saves 1,500 lbs of CO2 and 198 G of oil to manufacture the plastic bottles. Saves 2500 G of EXTRA water needed for production and purification. This is the minimum impact.
References: List the name, email address and phone number of at least three references familiar with your initiative.

<table>
<thead>
<tr>
<th>Name</th>
<th>Email Address</th>
<th>Phone Number</th>
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<tbody>
<tr>
<td>Chris Steinkamp, ED &amp; Protect Our Winters</td>
<td><a href="mailto:chris@protectourwinters.org">chris@protectourwinters.org</a></td>
<td>303-815-2057</td>
</tr>
<tr>
<td>Amy Verbelen, Friends of the Teton River</td>
<td><a href="mailto:amy@tetonwater.org">amy@tetonwater.org</a></td>
<td>208-354-3871</td>
</tr>
<tr>
<td>John Urdi, Marketing Director, GTR</td>
<td><a href="mailto:jurdii@grandtarghee.com">jurdii@grandtarghee.com</a></td>
<td>307-353-2300</td>
</tr>
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A special thanks to our sponsors, CLIF Bar and HKD Snowmakers!!!
Application deadline: 5:00 p.m. PST February 12, 2010
2010 SUSTAINABLE SLOPES GRANT APPLICATION

Application deadline: 5:00 p.m. PST February 12, 2010

Contact Information:

Name of ski area: Stevens Pass Resort

Name & Title of person submitting: Ross Freeman, Env. & Sustainability Manager

Mailing Address: PO Box 608, Leavenworth, WA 98826

Email Address: ross.freeman@StevensPass.com

Telephone: 206-812-7855

Identify which of the 21 Principles of Sustainable Slopes is the subject matter of your initiative?

| Planning, Design, and Construction | Product Re-use |
| Water Use for Snowmaking | Recycling |
| Water Use in Facilities | Potentially Hazardous Wastes |
| Water Use for Landscaping and Summer Activities | Fish and Wildlife Management |
| Water Quality Management | Wetlands and Riparian Areas |
| Wastewater Management | Forest and Vegetative Management |
| Energy Use for Facilities | Air Quality |
| Energy Use for Snowmaking | Visual Quality |
| Energy Use for Lifts | Transportation |
| Energy Use for Vehicle Fleets | Education and Outreach |

Waste Reduction

Please note that while multiple applications (up to 3) may be submitted, only one application per Principle is permitted. Only one grant will be awarded per resort.

Size of Ski Area

(Place an X in the box adjacent to the appropriate size description)

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A-25 SUSTAINABLE SLOPES ANNUAL REPORT 2010
1. Are you applying for an HKD Snowmakers in-kind grant for Low-Energy snowmaking equipment? If yes, please answer questions a. through h. below. If no, please proceed to Question 2.

   - Yes □ No □

   a. Has your resort conducted a comprehensive energy audit?

   - Yes □ No □

   b. What energy conservation measures have already been taken by your resort?

   (space for answer)

   c. Describe your resort's need for Low-Energy snowmaking equipment, including the length and width of the trail and the required annual man made snow depth for the trail on which this in-kind grant will be used. Describe your current snowmaking system (water capacity, air capacity and equipment in use).

   (space for answer)

   d. Has your resort made an investment in the last 5 years in Low-Energy snowmaking equipment? Explain.

   (space for answer)

   e. Does your resort have the resources necessary to install this equipment?

   - Yes □ No □

   f. Does your resort have the resources necessary to invest in more efficient snowmaking equipment if this grant is not awarded?

   - Yes □ No □
g. Please estimate your resort’s operational savings should you be awarded this grant. You are encouraged to analyze your current energy use and to utilize and document your own calculations to determine your savings. Operating savings should be calculated by comparing your current snowmaking cost to cover the terrain under consideration with the cost to do the same job using the HKD Low – Energy technology. You may wish to visit the HKD Snowmakers’ website and use their energy calculator found at http://www.hkdsnowmakers.com/hkd_energy_analysis.asp. This calculator asks for some basic assumptions about your system, terrain to be covered and energy costs. It then uses this information to estimate energy savings realized by using HKD SV10 towers. There are some fixed assumptions relating to temperatures and the performance of your existing equipment that may not be accurate for our resort. We encourage you to run your own calculations and document your energy costs and other costs that affect your payback.

h. How might you apply or reinvest the savings from this project? Is there a sustainability project that you could fund and implement with the energy cost savings afforded by this efficient snowmaking equipment?
   - What is the project?

   - What are the environmental benefits of the project?

   - What is the total cost of the project?
2. **Summary:** In 300 words or less, please summarize the environmental project, activity or program for which you seek funding and its objectives.

*Please note that summaries of more than 300 words will not be accepted.*

| Compost Pilot Project – Stevens Pass sustainability staff will expand our food compost program to include all three commercial kitchen locations, and all remaining table-service restaurants. Currently, Phase I of our food waste pilot project captures spoiled food and pre-consumer scraps from our busiest base-area kitchen, our espresso bar, as well as post-consumer waste from the associated table-service restaurant. Collectively, these venues produce about 5 cubic yards of potentially compostable material per week throughout the winter. While quite successful to date, we could easily double this amount to 10 yards if all other kitchen and table-service areas were included. Receiving the grant would allow this expansion into Phase II, and also help lead ultimately to the final step of including our large public, self-service cafeteria locations. Over the past 24 months, we have expanded food service on reusable, washable tableware, but some cafeterias still employ single-use, disposable paper containers, and all generate some post-consumer food waste. We have made a very concerted effort, now almost 100% complete, to switch out disposable food & beverage containers with certified biodegradable and compostable cornstarch, paperboard, or bioplastic substitutes. This reduces reliance on non-renewable petrochemical products, and paves the way for our Phase III goal of all possible post-consumer items (such as paper food trays, utensils, cups, napkins, etc.) being composted, or recycled. We are pursuing a compost program for three main reasons:
1) We can take a waste product that generates greenhouse gas during decomposition, turn it into a valuable commodity, and thereby reduce our carbon footprint;
2) The cost of composting is less than garbage hauling and disposal rates;
3) We can respond to the desires of our environmentally progressive guests from the Seattle Metro region who already enjoy curbside composting, and educate those arriving from other locations. |

| Application of Funds: How would the grant funding be applied to the initiative (please identify the amount of grant money that you are seeking and the total cost of your project)? Grant funding would allow us to equip the expansion of our ongoing compost pilot initiative and move towards Phase II; we will need to modify existing bussing stations, purchase new waste containers, and develop supplementary training materials for Food & Beverage staff. We are also especially eager to generate new educational outreach materials that will inform our guests about the program, and seek their buy-in. We anticipate that Phase II work will cost approximately $10,000 and ask for $5,000 in Sustainable Slopes funds. |

| Selection Criteria: Please reply to the following questions, limiting yourself to 50 words or less per reply. Does your initiative:
- Demonstrate innovation in improving sustainability? Yes - Foodservice is a significant part of the environmental footprint at most ski areas, because of several key factors: transportation to remote locations, waste and spillage, excess packaging, and sheer landfills volumes. Composting mitigates for some of these impacts by turning a waste product back into a value-added resource and avoiding the emissions of greenhouse gases. |
- Raise environmental awareness? Yes - As mentioned above, many of our guests already enjoy curbside composting at home, but do not realize or believe that it's possible for businesses to do the same. Guests from other regions will see public composting for the first time, and are sure to take that novel experience back home. With suitable education and marketing, we'll help customers understand just how many ways there are to lessen their, and our, environmental footprint. |
- Promote concrete environmental actions?
  Yes - By demonstrating that even a remote resort can compost, we can turn customers into advocates for expanded composting back home, as well as at other resorts and recreational venues that they may visit. By demonstrating that composting is just another part of sustainability, we can lead by example, encouraging follow-up behavior offsite by our visitors. Our promotional and educational materials will also promote this take-home message.

- Promote the goals of Keep Winter Cool?
  Yes - Encouraging skiers and snowboarders to minimize greenhouse gases, reduce waste, consider the entire lifecycle of products, lessen their own environmental footprint, and take action back home are all consistent with the sustainability-oriented goals of Keep Winter Cool.

- Have a high likelihood of success (and the necessary expertise and experience to achieve stated goals)?
  Yes - This initiative has already proven itself in Phase I, and has been one of our most popular sustainability initiatives among frontlines staff. Building on lessons learned so far, we are now ready to expand into Phase II: planning and communicating our intentions internally and externally will ensure a high likelihood of success. In addition, we are working with the leading compost hauler & producer in the region, and have benefited from their deep experience.

- Have the ability to be replicated by others in the ski industry?
  Yes - An increasing number of resorts have started composting initiatives, but many of these locations support hotels, golf courses, and full summer operations, all of which can use large amounts of soil/compost for maintenance and significant landscaping projects. We intend to demonstrate that resorts with no summer operations or planned erosion control projects – and thus nowhere to spread new soil – can still launch effective and meaningful programs by contracting with nearby compost haulers.

- Involve other partners, sponsors or underwriters?
  Yes - We have had discussions with the Washington Dept of Ecology's compost experts, with industry-leading foodservice experts at the University of Washington (Seattle), and with the largest regional compost producer (Cedar Grove, Inc).

- Rely on this grant money for implementation?
  Yes - Without this grant money it will take more time, and we may only be able to partially implement Phase II of our Compost Pilot Project for next season. Stevens Pass will provide all labor associated with the project.

Accomplishments: What are the expected results of the initiative?

1) We will reduce solid waste generation significantly.
2) By guaranteeing economically-viable amounts of food waste, we will provide a market incentive for the largest compost hauler in the region to establish a collection route (for other smaller businesses) along the highway to our location.
3) We will improve our carbon footprint by reducing landfill-related greenhouse gas emissions.
4) We will continue to improve our sustainability by converting a waste product into a valuable resource.
5) We will demonstrate to both the public and the ski/snowboard industry how sustainability measures such as offsite composting can become a normal part of business operations.
Measuring Success: Please quantify the program's expected results using either a percentage or absolute value (e.g. 20% reduction in energy consumption or 500 tons of CO2 saved) or both if possible.

We anticipate doubling the volume of our compost program to collect 100 cu yards/week, or approximately 2 tons of food waste. This represents about 20% of our total estimated food-related weekly garbage. By collecting at this rate for the entire 22 week ski season, we could reduce the emissions of CO2 equivalent by 46 tons, according to EPA figures.

References: List the name, email address and phone number of at least three references familiar with your initiative.

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<tr>
<th>Name</th>
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<td>Chery Sullivan,</td>
<td><a href="mailto:chery611@aco.ws.gov">chery611@aco.ws.gov</a></td>
<td>360-407-6615</td>
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<td>Michael Meyering,</td>
<td><a href="mailto:meyerig@u.washington.edu">meyerig@u.washington.edu</a></td>
<td>206-685-8221</td>
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<td>Clint Westmoreland,</td>
<td><a href="mailto:clintw@emeraldnw.com">clintw@emeraldnw.com</a></td>
<td>206-480-0726</td>
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A special thanks to our sponsors, CLIF Bar and HKD Snowmakers!!!!

Application deadline: 5:00 p.m. PST February 12, 2010
Press Release: NSAA Announces Sustainable Slopes Grant Winners

Contact: Troy Hawks
NSAA Communications
thawks@nsaa.org
(720) 963-4215

Funds Stimulate Green Projects and Improve Snowmaking Efficiency at U.S. Ski Areas.

LAKEWOOD, Colo. – April 28, 2010 – The National Ski Areas Association (NSAA) today named five member ski areas as the recipients of its annual Sustainable Slopes Grant program. The ski areas winning cash grants include Alta, Utah, Crested Butte, Colo., Grand Targhee, Wyo., Mt. Abram, Maine, and Stevens Pass, Wash. The grants, this year totaling $100,000, are designed to spark innovation among NSAA member resorts and provide resorts additional resources to initiate sustainability projects.

“These grants are a great vehicle for not only implementing new green projects at U.S. ski areas, but also to encourage the sharing of information of successful environmental programs and practices among our member resorts,” says NSAA President Michael Berry.

New this year are two in-kind high-efficiency snowmaking system grants provided by Massachusetts-based snowmaking equipment manufacturer Snow Economics/HKD Snowmakers. Being selected as this year’s winners, Mt. Abram, Maine and Crested Butte, Colo., each receive 10 high-efficiency snowmaking guns from Snow Economics/HKD Snowmakers, a total value of $80,000.

“HKD is committed to sustainability and we are thrilled to contribute to the greening of ski area snowmaking and support the broader Sustainable Slopes program. Both Crested Butte and Mt. Abram submitted compelling applications for our snowmaking grants and we look forward to working closely with both resorts to realize their goal of greater snowmaking efficiency,” says Snow Economics President Charles Santry.

Other winning projects of the grant program, sponsored by California energy bar maker CLIF Bar & Co., and the Natural Resources Defense Council (NRDC), include energy management and interpretive signage projects at Alta; an electric bike used for resort maintenance at Crested Butte; water bottle refilling stations at Grand Targhee; and a composting pilot project at Stevens Pass. Each of the winning programs will be highlighted in a future issue of the NSAA Journal. For more information on NSAA’s Sustainable Slopes Grant program or to learn more about environmental initiatives and projects visit the Environment section of nsaa.org.
Application deadline: 5:00 p.m. PST February 12, 2010

Contact Information:

Name of ski area:

Name & Title of person submitting application:

Mailing Address:

Email Address:

Telephone:

Identify which of the 21 Principles of Sustainable Slopes is the subject matter of your initiative?

- Planning, Design, and Construction
- Water Use for Snowmaking
- Water Use in Facilities
- Water Use for Landscaping and Summer Activities
- Water Quality Management
- Wastewater Management
- Energy Use for Facilities
- Energy Use for Snowmaking
- Energy Use for Lifts
- Energy Use for Vehicle Fleets
- Waste Reduction
- Product Re-use
- Recycling
- Potentially Hazardous Wastes
- Fish and Wildlife Management
- Wetlands and Riparian Areas
- Forest and Vegetative Management
- Air Quality
- Visual Quality
- Transportation
- Education and Outreach

*Please note that while multiple applications (up to 3) may be submitted, only one application per Principle is permitted. Only one grant will be awarded per resort.*

Size of Ski Area

(Place an X in the box adjacent to the appropriate size description)

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1. Are you applying for an HKD Snowmakers in-kind grant for Low-Energy snowmaking equipment? If yes, please answer questions a. through h. below. If no, please proceed to Question 2.

  [ ] Yes  [ ] No
a. Has your resort conducted a comprehensive energy audit?  

☐ Yes  ☐ No

b. What energy conservation measures have already been taken by your resort?


c. Describe your resort’s need for Low-Energy snowmaking equipment, including the length and width of the trail and the required annual man made snow depth for the trail on which this in-kind grant will be used. Describe your current snowmaking system (water capacity, air capacity and equipment in use).


d. Has your resort made an investment in the last 5 years in Low-Energy snowmaking equipment? Explain.


e. Does your resort have the resources necessary to install this equipment?  

☐ Yes  ☐ No

f. Does your resort have the resources necessary to invest in more efficient snowmaking equipment if this grant is not awarded?  

☐ Yes  ☐ No

g. Please estimate your resort’s operational savings should you be awarded this grant. You are encouraged to analyze your current energy use and to utilize and document your own calculations to determine your savings. Operating savings should be calculated by comparing your current snowmaking cost to cover the terrain under consideration with the cost to do the same job using the HKD Low—Energy technology. You may wish to visit the HKD Snowmakers’ website and use their energy calculator found at http://www.hkdsnowmakers.com/hkd_energy_analysis.asp. This calculator asks for some
basic assumptions about your system, terrain to be covered and energy costs. It then uses this information to estimate energy savings realized by using HKD SV10 towers. There are some fixed assumptions relating to temperatures and the performance of your existing equipment that may not be accurate for our resort. We encourage you to run your own calculations and document your energy costs and other costs that affect your payback.

h. How might you apply or reinvest the savings from this project? Is there a sustainability project that you could fund and implement with the energy cost savings afforded by this efficient snowmaking equipment?
   - What is the project?

   - What are the environmental benefits of the project?

   - What is the total cost of the project?

2. **Summary:** In 300 words or less, please summarize the environmental project, activity or program for which you seek funding and its objectives.
Please note that summaries of more than 300 words will not be accepted.

Application of Funds: How would the grant funding be applied to the initiative (please identify the amount of grant money that you are seeking and the total cost of your project)?

Selection Criteria: Please reply to the following questions, limiting yourself to 50 words or less per reply.

Does your initiative:

- Demonstrate innovation in improving sustainability?

- Raise environmental awareness?

- Promote concrete environmental actions?

- Promote the goals of Keep Winter Cool?

- Have a high likelihood of success (and the necessary expertise and experience to achieve stated goals)?
• Have the ability to be replicated by others in the ski industry?

• Involve other partners, sponsors or underwriters?

• Rely on this grant money for implementation?

**Accomplishments:** What are the expected results of the initiative?

**Measuring Success:** Please quantify the program’s expected results using either a percentage or absolute value (e.g. 20% reduction in energy consumption or 500 tons of CO2 saved) or both if possible.

**References:** List the name, email address and phone number of at least three references familiar with your initiative.

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CLIF® BAR Recognizes Seven Ski Resorts for Eco-Efforts with Annual Golden Eagle Awards

Whistler Blackcomb Captures Top Honor; Six U.S. Ski Resorts Also Win

CHAMPIONSGATE, Fla., May 1, 2010 — CLIF® BAR, the leading organic-certified energy bar, has honored Whistler Blackcomb with the 2010 Golden Eagle Award for Overall Environmental Excellence by a ski resort, marking the third time the Whistler, B.C., resort has received the ski industry’s highest environmental honor.

Whistler Blackcomb impressed Golden Eagle Awards judges with its comprehensive approach to environmental stewardship. The ski resort recently opened a hydroelectric facility on its property that will generate enough energy—33 gigawatt hours of hydro-electricity—to match its total annual energy consumption. The hydro facility, seven years in the development, is a partnership of Innergex Renewable Energy Inc., Ledcor Power Group and Whistler Blackcomb.

Whistler Blackcomb also made great strides in 2009 toward becoming a zero waste operation, reducing the amount of garbage it generates by 276 metric tonnes, or 46.5 percent, and increasing its levels of composting and recycled material usage.

In addition to the overall award, CLIF BAR, which delivers great-tasting energy foods and drink to winter athletes and enthusiasts, presented Silver Eagle awards to three ski resorts in Colorado, two in California and one in Vermont. The full slate of 2010 Golden Eagle Awards for Environmental Excellence was announced here yesterday during the National Ski Areas Association (NSAA) National Convention and Tradeshows.

“Climate change presents a major and imminent challenge to everyone who enjoys the outdoors, especially when snow and winter activities are involved,” said Ricardo Balazs, sports marketing experience manager for Clif Bar & Company. “We’re proud to support the ski industry’s efforts to address global warming and hope the Golden Eagle Awards will inspire others to take action as well.”

Established in 1993, the Golden Eagle Awards for Environmental Excellence recognize the environmental achievements of ski areas. The awards honor members of the NSAA, which represents the majority of ski area owners and operators in North America. Clif Bar & Company, which employs wind energy, biodiesel, waste reduction and other initiatives to reduce its own footprint on the planet, is the administrator of the awards program.

This year’s award winners were recognized for excellence in the following areas:
Golden Eagle, Overall Environmental Excellence: Whistler Blackcomb (British Columbia)

Energy conservation, waste management and renewable energy are central to Whistler Blackcomb’s environmental stewardship program. After seven years of hard work, the Fitzsimmons Creek Renewable Energy Project was completed and is up and running. The hydroelectric facility, located entirely within the resort’s operating area, will generate enough hydroelectricity (33 gigawatts) to match the ski area’s entire annual energy consumption. Furthermore, the project requires no power lines, and much of the development exists on previously disturbed areas. Whistler Blackcomb also made significant progress last year as it strives for zero waste, reducing its total waste in 2009 over 2008 by 59 percent through increased composting, garbage reduction and greater use of recycled materials.

Finalists for this award: Stevens Pass (Washington), Stowe (Vermont)

Silver Eagle, Excellence in Water Conservation / Water Quality: Mammoth Mountain Ski Area (California)

Mammoth Mountain Ski Area successfully completed a new reclaimed water system in partnership with the Mammoth Community Water District. It is the first large-scale reclaimed water program in the Eastern Sierra region of California. The recycled water supply will provide Mammoth’s Sierra Star golf course with 100 percent of its annual maximum water needs—320 acre/feet of water. That’s equivalent to the water needed to serve approximately 1,000 American households annually.

Finalists: Homewood (California), Northstar-at-Tahoe (California)

Silver Eagle, Excellence in Energy Conservation/Clean Energy: Bolton Valley (Vermont)

Vermont's Bolton Valley became only the nation’s 2nd ski area, and Vermont’s first, to install its own wind turbine. The 121-foot-tall Northwind 100 Wind Turbine is now producing 300,000 kilowatt hours of power annually—about 1/8th of Bolton Valley’s total energy needs and an amount equivalent to the electricity consumed by 40 to 45 Vermont households.

Finalists: Killington (Vermont), Whistler Blackcomb (BC, Canada)

Silver Eagle, Excellence in Fish and Wildlife Habitat Protection: Durango Mountain Resort (Colorado)

Durango Mountain Resort’s comprehensive efforts in planning and implementing an expansion project not only increased the resort’s total skiable acreage by 10 percent to 1,325 acres, but also improved the forest health and wildlife habitat. Durango used only chain saws and hand tools to remove just standing dead timber, hazard trees and non-merchantable timber 6 inches or less in length. The resort used the most environmentally friendly clearing technique, known as "lop and scatter," which left the cut trees on the forest floor and eliminated the need for heavy machinery.

Finalists: Mammoth (California), Vail Resorts (Colorado)
Silver Eagle, Excellence in Environmental Education: Sierra-at-Tahoe® Resort (California)
Sierra-at-Tahoe created a three-part educational campaign aimed at raising awareness among youth about the amount of trash people generate and educating youth about how to reduce waste. The message: “You can make a difference, every day, every time, by choosing to responsibly dispose of the waste you create.” Locally, Sierra reached out to almost 3,000 students through bottle top collection and on-mountain trash clean-up efforts. The resort also partnered with TransWorld Snowboarding to create a short video titled “Environmental Awakening” that aired nationally to millions of viewers on MTV2.

Finalists: Telluride (Colorado), Whistler Blackcomb (BC, Canada)

Silver Eagle, Excellence in Stakeholder Relations: Vail Resorts (Colorado)
The Hayman Restoration Project is a first-of-its kind collaboration between private business, government and non-profits on this scale. Vail resorts committed $750,000 and 1,500 volunteer hours over the next three years to restore Colorado’s essential watersheds that were affected by the worst fire in the state’s history — the 2002 Hayman Fire. The project will focus on more than 115,000 thousand acres, including four watersheds that feed the Upper Platte River, the main water supply for Denver. The restoration project in partnership with the U.S. Forest Service and the National Forest Foundation will protect water quality for millions of Colorado residents.

Whistler Blackcomb (BC, Canada), Winter Park (Colorado)

Silver Eagle, Excellence in Waste Reduction and Recycling: Steamboat (Colorado)
Steamboat implemented a zero waste program for its on-mountain facilities in 2009. The program focuses on a pilot composting program for all organic material and paper products; recycling across all Food & Beverage outlets; and reusable products such as silverware and non-disposable dishes and plates. The first year of this program resulted in a 62 percent and fill diversion rate and 73 percent diversion rate from recycling. The resort’s goal is to increase its numbers by 5 percent each year until zero waste is achieved.

Finalists: Crested Butte (Colorado), Grand Targhee (Wyoming)

Judges for this year’s awards include: Michael Berry, NSAA president; John Steelman, Natural Resources Defense Council; Richard Cook, International Mountain Bicycling Association; Judy Dorsey, Brendle Group; Elysa Hammond, Clif Bar & Company; Loren Kroenke, USDA – Forest Service; Greg Owsley, New Belgium Brewing Company.

About Clif Bar & Co.
Based in Berkeley, Calif., Clif Bar & Company is a leading maker of all-natural and organic energy and nutrition foods, including the CLIF® BAR energy bar and LUNA®, The Whole Nutrition Bar for Women®. Committed to sustainability from the field to the final product, Clif Bar has received local, state and national awards for its environmental efforts, including the Save
Our Snow campaign to combat and educate the public about the impact of global climate change on winter recreation areas. Learn more at http://www.clifbar.com.

About the NSAA
The National Ski Areas Association, headquartered in Lakewood, Colo., is the trade association for ski area owners and operators. It represents 329 alpine resorts that account for more than 90 percent of the skier/snowboarder visits nationwide. Additionally, it has 400 supplier members who provide equipment, goods and services to the mountain resort industry.