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ACKNOWLEDGEMENTS

The National Ski Areas Association (NSAA) would like to thank the following organizations for their support and individuals for their contributions in developing the Climate Challenge.

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- Sha Miklas, Arapahoe Basin
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- Geraldine Link, National Ski Areas Association
- Judy Dorsey, Brendle Group
- Seth Jansen, Brendle Group
NSAA also would like to thank the following ski areas for undertaking the Challenge in its second year, for their efforts in completing the Challenge, and for their continued support for improving the program. Jiminy Peak Mountain Resort is a former member of the Climate Challenge.
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1.0 INTRODUCTION

The Climate Challenge is a voluntary program designed to recognize ski areas that are committed to developing greenhouse gas (GHG) inventories, setting goals for carbon reduction, implementing at least one on-site reduction strategy per year, and reporting success in reducing their overall carbon footprint.

Ski areas are in a unique position - vulnerable to climate change, yet with high visibility to demonstrate by example and communicate solutions to millions of visitors annually. Initiatives such as the National Ski Areas Association’s (NSAA’s) Keep Winter Cool initiative and Clif Bar’s Save our Snow winter road trip reflect the industry’s response to both this vulnerability and visibility.

Ski areas participating in the Climate Challenge acknowledge the opportunity to recognize and reduce their own contributions to climate change in a transparent, credible way. Challengers also will make tangible progress to reduce GHG emissions each year for the benefit of skiers and riders, ski areas, resort communities, and the planet.
1.1 WHY THE CLIMATE CHALLENGE?

The consequences of climate change to the ski industry require continued leadership and bold steps throughout the industry. The Challenge provides a framework for participants to engage in a multi-year process to challenge themselves to reduce emissions at their ski area while supporting like-minded ski areas in a collaborative effort to reduce emissions industry-wide.

A 2010 NSAA survey showed that only 10% of responding ski areas had completed a GHG inventory – though 80% were very interested in addressing climate issues.

GOALS OF THE CLIMATE CHALLENGE

- **Higher standard**: The program will raise the standard for ski areas wishing to take their sustainability performance to the next level.
- **Long-term**: The program will be multi-year, seeking to compound the benefits of actions taken by participants over many years and to grow the number of participants from year to year.
- **Cost-efficient**: The program will leverage the investment of participants and sponsorships to deliver more value to participants than their individual investments.
- **Credible**: Quantification of GHG inventories, targets, and reduction measures will be developed in alignment with a credible protocol, using boundaries consistent with industry approaches.
- **Transparent**: The approach taken by the program will be transparent to participating ski areas and the public.
- **Fair**: The program will be fair, facilitating participation for ski areas of all sizes, regions, and focuses.
- **Easy**: The program will provide participating ski areas with guidance and tools to make participation as simple as possible.
- **Well-recognized**: The program will provide recognition for participating ski areas and for high performance.
2.0 CHALLENGE ELEMENTS

Ski areas participating in the Challenge commit to a four-step process each year.

Inventory → Target → Reduce → Report

2.1 INVENTORY

In order to understand the impact of their operations, Challengers inventory GHG emissions for ski area operations. Inventories are required to include direct emissions at the ski area (Scope 1) and indirect emissions from purchasing energy, such as electricity (Scope 2).

Other emissions, such as those from waste disposal or business travel, can be included at the discretion of the Challenger. The Challenger can choose to inventory emissions for the fiscal or calendar year.

For 2012, Challengers prepared inventories using a tool that follows the guidelines of The Climate Registry’s General Reporting Protocol:

www.theclimateregistry.org/downloads/GRP.pdf
2.2 TARGET

With an understanding of the emissions generated by their operations, Challengers prepare a target for reducing emissions. The structure of the target is flexible: the Challenger can select which emissions to reduce, how much they will be reduced, and over what time period the target will be achieved. Regardless of the structure of the target, Challengers define a target that will reduce GHG emissions relative to an established baseline GHG inventory for ski area operations.

Targets are the means for measuring Challenger progress and hopefully will become useful planning tools as Challengers make operational decisions in years to come.

THE LANGUAGE OF CARBON

**Carbon Dioxide (CO₂):** The major heat-trapping gas whose concentration is being increased by human activities. It also serves as the yardstick for all other GHGs. The major source of CO₂ emissions is fossil fuel combustion. Carbon dioxide emissions also result from clearing forests and burning biomass. Atmospheric concentrations of CO₂ have been increasing at a rate of about 0.5 percent a year, and are now more than 30 percent above pre-industrial levels.

**CO₂e:** Carbon dioxide equivalent, a measure that is used to express the concentration of all heat trapping gases in terms of CO₂.

**MTCO₂e:** A metric ton of CO₂e. A metric ton is equivalent to 1.102 short tons or 2,204 pounds.
2.3 REDUCE

Challengers commit to take one measurable step to reducing their GHG emissions each year in order to progress toward their target. Potential reduction projects include increased energy efficiency in buildings, lifts, and snowmaking; switching to more efficient fleet vehicles; increasing diversion of solid waste to reuse; recycling or composting; or installing a renewable energy system on site.

The Climate Challenge views purchasing a renewable energy credit (REC) or a carbon offset as a means of contractually demonstrating an emission reduction. These instruments may be used by Challengers to achieve targets but will not be recognized for the Reduce component of the Challenge. In other words, at least one reduction project must occur on site in each Challenge year.

Outsourcing or divesting emission sources is not allowed as a reduction strategy for those participating in the Challenge. For example, outsourcing a restaurant to a concessionaire during the Challenge will not be considered a reduction in emissions from a baseline that includes the restaurant.

2.4 REPORT

Having completed the first three activities in the Challenge, Challengers will report a summary of their results to the Climate Challenge program and the public. The summary will include the following elements:

- Total GHG emissions in MTCO₂e
- Stated reduction target
- A narrative description of reduction activities

Challengers are asked to be complete and accurate in reporting to the Challenge. The goals of the Challenge are larger than a single ski area and are best served when all participating ski areas make their best effort. To this end, all submitted inventories, targets, and reduction activities have undergone a third-party review to ensure they are eligible and reasonable with respect to the program’s standards and expectations.
2.5 ENCOURAGED ELEMENTS

In addition to those strategies that directly reduce GHG emissions, Challengers are encouraged to undertake a number of activities to reduce emissions in indirect ways that may not be reflected in their inventories but may still have a significant impact on global emissions. These activities will be recognized and supported by the Climate Challenge. Some examples of these indirect activities are described here:

- Support for legislation – many ski areas have supported policies that would reduce emissions regionally or nationally.
- Skier transportation programs – many ski areas are investing in infrastructure, providing incentives, and educating their skiers and riders to reduce single-occupant vehicle travel to ski areas.
- Skier education/communications – the ski industry’s visibility to millions of skiers and boarders every year provides tremendous opportunity to lead by example.
- Comprehensive reduction planning – developing a comprehensive climate action plan and integrating it into capital planning and budgeting activities can help to elevate the consideration of GHG reduction activities. This also is an opportunity to link a resort’s efforts with similar planning that may be taking place in its community.
- Purchase of renewable energy credits or offsets – many resorts invest in renewable energy credits or carbon offsets to support the reduction of GHG emissions.
3.0 CHALLENGE RESULTS

The following sections present the outcomes of the Inventory – Target – Reduce process for this year’s Climate Challengers.

The Challengers represent a variety of ski area sizes, climates, and operational characteristics. In addition, the carbon intensity of the electricity they can purchase from the grid varies widely. In other words, these ski areas are all unique; however, they all have committed to reducing their GHG emissions.

Overall, the Challengers reported about 115,000 MTCO2e of emissions in the 2012 reporting year. By 2020, when all of the targets established by Challengers have been completed, Challengers have committed to reducing emissions by at least 38,500 MTCO2e – about 34 percent of 2012 emissions. This reduction includes any REC purchases the Challengers may be planning to achieve their targets.
### ALTA SKI AREA – UTAH

<table>
<thead>
<tr>
<th>INVENTORY (calendar year 2012)</th>
<th>MTCO$_2$e</th>
<th>TARGET</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scope 1 and 2 (required)</td>
<td>4,896</td>
<td>Alta will reduce emissions 10 percent below 2011 emissions by 2020.</td>
</tr>
<tr>
<td>Scope 3 (solid waste)</td>
<td>215</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>5,111</td>
<td></td>
</tr>
</tbody>
</table>

**REDUCE**

Alta continued upgrading interior lighting from T12 to T8, upgraded exterior lighting to LED, installed a central plant as part of its new LEED Silver Lift Maintenance Building (which replaced three inefficient old boilers in existing buildings with 95% efficient boilers), and upgraded windows in an older building to a 0.3 u-factor.

**OTHER PROGRESS**

The following are additional annual GHG reduction efforts that may or may not be directly reflected in the resort’s GHG Inventory:

- Native Tree Planting (1000-2000 trees planted)
- Native Plant Community Restoration
- Recycling - Styrofoam, rubber, batteries, mixed metals, electronics, ski gear (skis, poles, goggles, helmets and ski boots)
- Co-Mingled Materials - paper, plastics 1-7, aluminum, steel, cardboard, newspapers, and magazines
- Idle Free Policy
- Employee Environmental Professional Development and Education (newspapers, training, orientations, Green Team, meetings, and reports)
- Low Water Use Fixtures - waterless urinals, low flow toilets and shower heads, and automatic faucets
- Clothing and Office Furniture Donations
- Reuse of Office Furniture and Other Supplies
ARAPAHOE BASIN – COLORADO

<table>
<thead>
<tr>
<th>INVENTORY</th>
<th>MTCO$_2$e</th>
<th>TARGET</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scope 1 and 2 (required)</td>
<td>3,162</td>
<td>Arapahoe Basin Ski Area will reduce GHG emissions by 10 percent per square foot throughout all of its buildings and will reduce its overall GHG emissions by 3 percent below the ’09-’10 baseline levels by 2020.</td>
</tr>
<tr>
<td>Scope 3 (solid waste)</td>
<td>79</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>3,241</td>
<td></td>
</tr>
</tbody>
</table>

REDUCE
Arapahoe Basin has implemented a waste reduction program that includes expanded recycling, composting, reusable/compostable cutlery and tableware, and hydration stations to reduce disposable water bottle use. The waste to landfill was reduced by 42 percent compared to the previous year with 31 percent and 88 percent increases in recycling and composting, respectively.

OTHER PROGRESS
As stewards of an exceptional mountain experience, Arapahoe Basin Ski Area is committed to providing quality outdoor recreation experiences. Staff and guests realize Arapahoe Basin is a priceless natural treasure, and the resort strives to continually improve its environmental performance in order to provide enjoyment of Arapahoe Basin for future generations of snow and mountain enthusiasts.

Arapahoe Basin is committed to the sustainability of its industry and community. To this end, the resort remains focused on education, policy, and initiative. Its overall sustainability program includes these policies and initiatives:

1. **Composting policy** - Composting in all food and beverage facilities, Snowsports lunch program, and all after-hours events.
2. **Recycling policy** - Educating employees/guests to increasing landfill diversion.
3. **Idling policy** - Adopted NSAA guidelines to reduce emissions.
4. **Waste reduction guidelines** - Educating employees and increasing landfill diversion.
5. **Energy usage guidelines** - Saving electricity and reaching reduction goals for all facilities.
6. **Purchasing guidelines** - Purchasing from environmentally responsible companies that manufacture environmentally friendly products.
7. **Carpooling/public transportation** – Encouraging alternatives to single vehicles through lift ticket discounts.
8. **Reusable tableware and cutlery** – Composting all service containers that are not reusable.
9. **Snowmaking** - Using airless snowmaking system.
10. **Ace's Wild Adventure/Gracie's Grove** - Introducing guests to the bio-diversity of Arapahoe Basin's mountain environment through outdoor stations that teach about the animals, trees, plants, seasons, and bio-zones of the mountain.
11. **Support of local environmental organizations** - Matching employee donations to local environmental groups and sponsoring an event and a club that benefit the local conversation center.
12. **NSAA Climate Challenge/Colorado Industrial Energy Challenge** – Participating in both challenges by tracking GHG emissions, setting reduction goals, and implementing new projects to make the goals attainable.

Arapahoe Basin's sustainability program is backed by management support, employee buy in, and staff and guests who are dedicated to preserving the mountain environment. The resort continues to work hard to educate staff and guests in order for its program to remain successful. Arapahoe Basin believes awareness is the most important attribute of an effective environmental program. We have the power to save the powder!
INVENTORY
(calender year 2012)  MTCO\textsubscript{2}e  TARGET
---  ---  ---
Scope 1 and 2 (required)  427  Beaver Valley Ski Club will reduce emissions by 6 percent under 2011/12 levels by 2020.
Scope 3 (solid waste)  10
Total  437

REDUCE
Beaver Valley Ski Club upgraded its maintenance shop lighting.

OTHER PROGRESS

In the past 6 years, Beaver Valley Ski Club has implemented many sustainability related initiatives that have contributed to reducing the Club's carbon emissions as well as increasing awareness and education. From eco-efficient washrooms to staff sustainability workshops, the small club of 91 skiable acres and 775 member families works hard to serve as a local leader in climate change reduction. Waste management efforts since 2008, including an organics program, have reduced carbon emissions by 43.2 MTC02E by diverting 86,400 pounds of garbage from the landfill. This is a 9 percent reduction of its total GHG emissions. Additional programs include river research and rehabilitation, sustainable forest management, collaborations with sustainable business programs at local universities, and continuous adoption of more efficient technologies. Beaver Valley Ski Club is proud to be the first Canadian resort to participate in the Climate Challenge.
**INVENTORY**
(calendaryear2012) | MTCO\textsubscript{2e} | TARGET
--- | --- | ---
Scope 1 and 2 (required) | 1,512 | Boreal & Soda Springs will reduce emissions by 900 MTCO\textsubscript{2e} by 2013.
Scope 3 | Not reported | 
Total | 1,512 | 

**REDUCE**

Lighting in the Woodward Building was upgraded.

**OTHER PROGRESS**

Boreal Mountain Resort, with its parent company POWDR Corporation, has worked to reduce carbon emissions and implement energy saving strategies and procedures over the past eight seasons. Projects include replacing lighting systems to reduce kilowatt hours (kWh) by 50 percent per year, installing a new LED freeway sign to keep over 40 tons of carbon from entering the atmosphere each season, and working with a waste management company to divert up to 48 tons of waste from entering local landfills. Additionally, Boreal has purchased RECs through Renewable Choice Energy to offset 100 percent of the grid-supplied electricity consumed at Boreal Mountain and Soda Springs Winter Resort. The RECs total nearly 50 million kWh, which is equivalent to removing over 8,500 passenger vehicles from the road for a year. The RECs will be used at Boreal to offset power for snowmaking, lodge electricity, plus all chairlifts and nightlights. Working with the entire Boreal team, several environmental commitments have been made, such as the no-idle policy; erosion control plans; and a pledge for environmentally conscious purchases, which range from new construction to operating supplies.
CANYONS RESORT – UTAH

<table>
<thead>
<tr>
<th>INVENTORY</th>
<th>MTCO₂e</th>
<th>TARGET</th>
</tr>
</thead>
<tbody>
<tr>
<td>(calendar year 2012)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scope 1 and 2 (required)</td>
<td>16,820</td>
<td>Canyons Resort will reduce emissions by 15 percent below 2011 levels by 2017.</td>
</tr>
<tr>
<td>Scope 3 (solid waste)</td>
<td>568</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>17,388</td>
<td></td>
</tr>
</tbody>
</table>

REDUCE
Canyons Resort upgraded to LED lighting in the Summit Garage and Kokopelli Ballroom.

OTHER PROGRESS
Canyons Resort is committed to a sustainable resort and a sustainable community. It continues to purchase wind power through the Rocky Mountain Power Blue Sky program and participates in the utility’s power incentive programs. Canyons Resort also sponsors Park City's local conservation organization, Recycle Utah, through board representation and annual financial support. The resort recently organized a Sustainability Task Force that focuses on improving resort environmental initiatives, such as education, on-mountain and hotel recycling, energy conservation, resort clean up days, Bike to Work Week, and a repurposing program of items throughout the resort.

In addition, Canyons Resort continues to support and be partners with a number of non-profit organizations throughout the community - such as Summit Land Conservancy, Mountain Trails Foundation, and Snyderville Recreation - that advocate preservation of open lands, protection of watersheds, and public trail access. A sustainable resort supports a sustainable community. In 2012, with assistance from NSAA, Canyons Resort installed its first solar project on Tombstone Patrol shack. This grid-tied system was small, but its location provided an opportunity to educate guests and employees. In 2013 Rocky Mountain Power is providing a $50,000 grant to Canyons Resort to install two 25kw systems on the Sheep Camp Snowmaking Compressor Building and the Orange Bubble Express Chair Storage Building.
COPPER MOUNTAIN – COLORADO

<table>
<thead>
<tr>
<th>INVENTORY (fiscal year 2012)</th>
<th>MTCO₂e</th>
<th>TARGET</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scope 1 and 2 (required)</td>
<td>17,818</td>
<td>Copper Mountain will reduce emissions by 8,000 MTCO₂e by 2013.</td>
</tr>
<tr>
<td>Scope 3 (solid waste)</td>
<td>1,102</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>18,920</td>
<td></td>
</tr>
</tbody>
</table>

REDUCE

Copper Mountain installed a solar thermal system at the Solitude Lodge, expanded recycling and composting programs, and purchased a higher efficiency snowmaking fan gun.

OTHER PROGRESS

In the past year, Copper Mountain has installed 2 Windspire Vertical Axis Wind Turbines that generated 577 kWh; the grid energy saved is equivalent to saving 1 barrel of oil. Copper Mountain has continued its dedication to recycling and composting in specific resort food and beverage locations. Throughout this process Copper has placed guest educational signage emphasizing the power of reusing products. This past season the resort recycled over 31 tons and composted over 78 tons, diverting 109 tons of waste from local landfills. The Copper Environmental Foundation, or CEF, (a non-profit 501c3) is a program dedicated to the environmental sustainability of Copper Mountain, Frisco, and the surrounding areas. CEF was started in November 2007 by Copper Mountain employees, with a long-term goal to support environmental initiatives in Summit County and the surrounding area. Over the past year CEF supported such organizations as Friends of the Dillon Ranger District, Summit County Pre-School, Summit School District, Keystone Science School, Girl Scouts, and High Country Conservation Center.
Jackson Hole Mountain Resort – Wyoming

<table>
<thead>
<tr>
<th>INVENTORY</th>
<th>MTCO₂e</th>
<th>TARGET</th>
</tr>
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<tbody>
<tr>
<td>(calendar year 2012)</td>
<td></td>
<td>By 2015, Jackson Hole Mountain Resort (JHMR) will reduce its GHG emissions (from propane/natural gas, gasoline/diesel, and electricity consumption) per guest visit by 10 percent below 2009 baseline levels.</td>
</tr>
<tr>
<td>Scope 1 and 2 (required)</td>
<td>6,159</td>
<td></td>
</tr>
<tr>
<td>Scope 3 (solid waste)</td>
<td>160</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>6,319</td>
<td></td>
</tr>
</tbody>
</table>

**REDUCE**

JHMR installed a “free air” cooler at its mid-mountain restaurant that uses outside air for cooling when conditions permit. In addition, JHMR replaced the cardboard boxes used for lift load testing with reusable barrels to reduce solid waste.

**OTHER PROGRESS**

JHMR is committed to conserving natural resources and mitigating climate change. JHMR has implemented a comprehensive ISO 14000-registered environmental program and established itself as an environmental leader in the ski industry by developing a system for integrating environmental issues into all aspects of its business.

JHMR employs a number of innovative, voluntary environmental projects described below:

- Hazardous and solid waste management
  - Reduced raw material consumption and pollution from toxic metals by recycling numerous waste products (including aluminum containers, cardboard, computers, glass containers, fluorescent light bulbs, office paper, and wood and metal scraps)
  - FSC-certified paper in administrative office and for media, such as trail maps
  - Green janitorial products made from plant-derived compounds
  - Aqueous instead of Naptha parts cleaners to reduce chlorinated solvents in maintenance shops
  - State-of-the-art snowmelt filtering and recycling system in the maintenance building that reduces polluted water discharge
  - Recycled batteries, antifreeze, and motor oil
  - Thirty percent of solid waste recycled
• Bottle fill station to reduce single use water containers

• Energy efficiency and renewability
  o Four-stroke snowmobiles
  o RECs to offset 100 percent of lift energy consumption
  o Low-energy light bulbs, such as CFLs and LEDs
  o Free satellite parking lot for guests and free bus passes for employees and season pass holders
  o Free air cooler at Casper restaurant that uses ambient winter air to keep food products cold
  o START bus passes for all employees and season pass holders at no cost to them
  o Parking fee waiver for carpoolers (3 or more) in the Ranch Lot in Teton Village
  o Biodiesel use for about 10 years (B-10 and B-20)
  o Two trucks powered by discarded vegetable oil
  o Couloir and the Deck, two popular JHMR restaurants are proud members of 1% for the Planet. The Eco-friendly nature of these restaurants ensures that the majority of their ingredients come from within a 250 mile radius and the ever changing seasonal menu utilizes the local farmers markets and ranches

• Aesthetics, open space, and wildlife habitat
  o Replanted old road cut to reduces the visual impact of the ski area
  o Wildlife habitat restoration with the U.S. Forest Service to restore white bark pine trees killed off using patches and spraying
  o Doubled the amount of restored wetland acreage required under federal laws to offset wetland fill
  o Donated proceeds from designated pass purchases to Tree Fight for tree protection
  o Donated $1 fee from each summer Jackson Hole Resort Lodging reservation to National Forest Foundation

• Community and employee outreach
  o Trash pick-up on highway typically attended by staff twice per year
KILLINGTON – VERMONT

& PICO MOUNTAIN – VERMONT

<table>
<thead>
<tr>
<th>INVENTORY</th>
<th>MTCO2e</th>
<th>TARGET</th>
</tr>
</thead>
<tbody>
<tr>
<td>(calendar year 2012)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scope 1 and 2 (required)</td>
<td>18,433</td>
<td>Killington / Pico Resorts will reduce emissions by 12,000 MTCO2e by 2013.</td>
</tr>
<tr>
<td>Scope 3 (solid waste)</td>
<td>229</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>18,662</td>
<td></td>
</tr>
</tbody>
</table>

REDUCE

Killington/Pico implemented occupancy sensors for lighting as well as snowmaking efficiency improvements.

OTHER PROGRESS

Killington Resort continues to implement innovative energy conservation measures and environmental management practices to reduce energy consumption and the effects of climate change. Killington has environmental partnerships with Efficiency Vermont, Green Mountain Power, Cassella Resource Solutions, and The Marble Valley Regional Transportation District to name a few. In addition, Killington Resort endorses NSAA’s Sustainable Slopes Environmental Charter for Ski Areas and the Keep Winter Cool Campaign.

The resort’s mission statement reflects its environmental commitment:

"Our mission is to exceed customer expectations, be innovative, profitable and environmentally responsible."

Furthermore, Killington Resort created a Green Team that is dedicated to raising awareness of staff and guests relative to the Resort’s commitment to Rethink, Reduce, Reuse, and Recycle.
LAS VEGAS SKI & SNOWBOARD RESORT – NEVADA

<table>
<thead>
<tr>
<th>INVENTORY (calendar year 2012)</th>
<th>MTCO2e</th>
<th>TARGET</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scope 1 and 2 (required)</td>
<td>1,009</td>
<td>Las Vegas Ski &amp; Snowboard Resort (LVSSR) will reduce emissions by 10 MTCO2e by 2013.</td>
</tr>
<tr>
<td>Scope 3</td>
<td>Not reported</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>1,009</td>
<td></td>
</tr>
</tbody>
</table>

REDUCE
LVSSR completed a solar photovoltaic array and installed ENERGY STAR water heaters.

OTHER PROGRESS
As a good steward of the land, LVSSR embraces every opportunity to reduce the impact of its operation in the high alpine environment. This unwavering commitment by LVSSR and its parent company, POWDR Corporation, is to continually improve in reducing the carbon emissions produced at every stage of resort operations. LVSSR has committed to several projects to reduce its impact on the environment, including avoiding disposable utensils and plates and replacing these with reusable items or those made of compostable materials. In addition, LVSSR successfully mitigated landfill impacts by switching to waste bags made with 80 percent recycled materials as well as sorting and recycling all waste produced by operations. LVSSR also replaced outdated water heaters with efficient ENERGY STAR appliances and provided its visitors daily bus service from town to encourage ride sharing and reduce the impact of emissions on the surrounding environment. A larger project was to decrease LVSSR’s dependency on diesel generators. LVSSR installed a solar array with battery storage primarily to run the server and office without using generators. About 95 percent of days in Las Vegas are clear and sunny; therefore, the plan is to maximize solar generating capacity and storage capacity and reduce the amount of electricity needed. During just 1 month, LVSSR avoided using over 700 gallons of diesel fuel to generate the same power supplied by the solar array. By reducing this amount of diesel fuel use, the resort avoided adding over 15,000 pounds of CO2 to the atmosphere.
MT BACHELOR – OREGON

<table>
<thead>
<tr>
<th>INVENTORY</th>
<th>MTCO$_{2e}$</th>
<th>TARGET</th>
</tr>
</thead>
<tbody>
<tr>
<td>(calendar year 2012)</td>
<td></td>
<td>Mt Bachelor will reduce emissions by 3,600 MTCO$_{2e}$ by 2013.</td>
</tr>
<tr>
<td>Scope 1 and 2 (required)</td>
<td>1,009</td>
<td></td>
</tr>
<tr>
<td>Scope 3 (solid waste)</td>
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</tr>
<tr>
<td>Total</td>
<td>1,009</td>
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</table>

REDUCE

Mt Bachelor retrofitted lighting in the receiving area, West Village Patrol, SDL, and at the Nordic Center. Improvements also were made to the heating system at the SDL. Biodiesel (B10) was used for all applications.

OTHER PROGRESS

Mt Bachelor offsets 100 percent of its electrical use with RECs from wind power. For the 2011-2012 fiscal year, Mt. Bachelor purchased 6,938,383 kWh of wind power RECs. Since 2005, Mt Bachelor has purchased 30,608,066 kWh of wind energy. These RECs have offset the carbon footprint of the resort by 19,162 tons, which is equivalent to a 42 percent reduction in the carbon footprint compared to previous years and equivalent to taking 3,409 cars off the road each year. The Mt Bachelor shuttle busses run on biodiesel, reducing more than 7 million pounds of GHG annually by reducing the number of cars going to and from the resort. Shuttles diverted 1.7 million employee and guest vehicle miles traveled from the road last season. On-mountain guests diverted 19 tons of garbage from area landfills last season and on-mountain employees diverted 30 tons of garbage from landfills. Other endeavors at Mt Bachelor include using partially recycled paper products in all restrooms, recycling containers in food and beverage locations, using non-petroleum based cleaners for housekeeping, using wax-free recycled paper for insulated cups in food and beverage locations, reusing existing signs and sign materials, using green cleaning agents for vehicles, retrofitting lighting to low power devices as lights are replaced, remodeling kitchen facilities to allow for china service, requiring food and beverage suppliers to supply company environmental policies as part of bids, using bulk container food items for ski school lunches, recycling bulk cardboard from supplier packaging, distributing job applications via email instead of paper/postage, and initiating...
a no-idling program in December 2007. The no-idling program reduces pollution, decreases health risks, saves engine wear, and conserves fuel and money. Further consideration for this program was inspired by children, as the drop-off area is frequented by kids who are at higher risk as they inhale more air per body weight.
MT. HOOD MEADOWS – OREGON

<table>
<thead>
<tr>
<th>INVENTORY (calendar year 2012)</th>
<th>MTCO₂e</th>
<th>TARGET</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scope 1 and 2 (required)</td>
<td>3,812</td>
<td>Mt. Hood Meadows will endeavor to reduce overall emissions 3 percent or more below 2011 by 2020.</td>
</tr>
<tr>
<td>Scope 3 (solid waste)</td>
<td>230</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>4,042</td>
<td></td>
</tr>
</tbody>
</table>

REDUCE

Mt. Hood Meadows equipped its message board trucks with batteries so that signage could be powered without idling trucks, reducing diesel consumption and emissions by as much as 70 percent while vehicles are operated in this capacity.

OTHER PROGRESS

At Mt. Hood Meadows, we love our mountain, and that love for the mountain shows in many ways. The resort is committed to operating in a responsible and sustainable fashion so future generations of mountain recreation enthusiasts may experience and enjoy this awesome mountain.

Mt. Hood Meadow’s environmental program is comprehensive and is integrated throughout the company. Central to its efforts are resource conservation, waste management, green cleaning and reduced hazardous substances in the workplace, carbon emissions offsets, sustainable transportation options, and idling awareness.

Sustainability is integrated into resort core values and sustainability objectives are to respectfully balance the environmental, social, and financial aspects of its business in harmony with Mt. Hood Meadows.

Mt. Hood Meadows continuously strives to become more sustainable and has implemented progressive programs to increase public awareness of environmental stewardship practices. The resort takes pride in its heritage of achievement in these areas and in its current efforts. The momentum created has turned sustainability from something the resort does into a culture altered behavior. Mt. Hood has experienced nothing less than a paradigm shift.
PARK CITY MOUNTAIN RESORT – UTAH
& GORGOZA – UTAH

<table>
<thead>
<tr>
<th>INVENTORY (calendar year 2012)</th>
<th>MTCO₂e</th>
<th>TARGET</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scope 1 and 2 (required)</td>
<td>14,663</td>
<td>Park City Mountain Resort &amp; Gorgoza will reduce emissions by 8,600 MTCO₂e by 2013.</td>
</tr>
<tr>
<td>Scope 3 (solid waste)</td>
<td>342</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>15,005</td>
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</tr>
</tbody>
</table>

**REDUCE**

Park City Mountain Resort & Gorgoza completed computer server virtualization, increased recycling volumes, installed efficient snowmaking for the Ridge Terrain Park, implemented timers on the lights in the parking garage, and used biodiesel (B20) exclusively.

**OTHER PROGRESS**

Park City Mountain Resort has completed over 30 carbon reduction and energy saving projects at a cost of over $1.4 million since fiscal year 2005. The resort has reduced electricity costs by over $158,000 annually and power consumption by 3 million kWh. In addition, the resort has recycled over 165,000 pounds of cardboard and 163,000 pounds of co-mingled material, and it uses B20 biodiesel fuel in all equipment. The resort also has supported wind power by purchasing 75 million kWh of RECs.

Aside from Park City Mountain Resort’s work on its own operations, it has advocated for energy efficiency, clean energy, and reduced carbon emissions by signing on to letters of support or generally providing support for 13 federal, state, or local legislative initiatives and 4 utility or industry initiatives with these aims. The resort also has an EcoZone in the base plaza and on the upper mountain designed to educate guests on its efforts and what they can do to help.
SUGARBUSH – VERMONT

<table>
<thead>
<tr>
<th>INVENTORY</th>
<th>MTCO₂e</th>
<th>TARGET</th>
</tr>
</thead>
<tbody>
<tr>
<td>(fiscal year 2012)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scope 1 and 2 (required)</td>
<td>3,205</td>
<td>Sugarbush Resort will reduce emissions by 5 percent under fiscal year 2012 levels by 2015.</td>
</tr>
<tr>
<td>Scope 3 (solid waste)</td>
<td>194</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>3,399</td>
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</tr>
</tbody>
</table>

REDUCE
Sugarbush completed lighting upgrades in the Gate House and replaced some snow guns with more efficient models.

OTHER PROGRESS
Sugarbush is entrusted with the stewardship of lands in the beautiful Green Mountains of Vermont. The resort promotes resource conservation, recycling, habitat protection, and environmental education. Sugarbush believes it has a responsibility to the community in that the resort exists within a very special environment in the Mad River Valley. It is a responsibility to contribute to the economy of the Valley and be a good civic partner in promoting activities that enrich the community and preserve its special quality and natural environment.

Resource Conservation - In all Sugarbush Resort properties, the resort encourages its guests and employees to help through recycling, purchasing goods produced with recycled content, turning out lights and electronics, and reusing towels and linens. The resort has initiated many lighting, motor, and efficiency upgrades in its buildings and equipment; invested in highly efficient snowmaking technologies to maximize snowmaking capabilities while reducing energy use; and continues to implement upgrades as new technologies become available. Sugarbush supports the Mad Bus, a free public transit system that provides winter bus service to the Mad River Valley to reduce demand for parking lots, wear and tear on our road networks, and transportation related air emissions.

In partnership with Efficiency Vermont (Vermont’s energy efficiency utility that provides technical assistance and financial incentives to help Vermont households and businesses reduce their energy use and costs) since 2008, Sugarbush has implemented energy efficiency projects that have saved 1,572,305 kWh. The resort annually recycles on average...
more than 121 tons of recyclable materials, purchases 100 percent postconsumer recycled and sustainably sourced paper and paper products whenever possible, buys eco-friendly cleaning supplies in bulk, and has switched to a non-toxic parts washers for vehicle and lift maintenance facilities.

Recycling - Sugarbush actively recycles and composts throughout the resort. From the parking lot to the top of the mountain, recycling opportunities are everywhere.

Habitat Protection – The resort strives to operate in harmony with the local wildlife with which the land is shared. This goal is reflected in a sensitive use of the Slide Brook Basin and the resort’s timber management plans, water quality plans, and vegetation management plan. Sugarbush has an obligation to preserve the beauty of its natural environment and this means being responsible stewards of the land.

Environmental Education - Throughout its winter and summer program offerings, Sugarbush has a variety of educational initiatives that emphasize local wildlife and conservation. These programs are available through special events provided by partners, such as the U.S. Forest Service and the Vermont Institute of Natural Science, along with environmental curriculum woven into summer camp programs and winter ski/ride and snowshoe programs. Sugarbush hosts annual resort green up and commuter challenge events along with targeted invasive species control projects that engage employees in environmental efforts that demonstrate the importance of participation.

Employee Involvement - Through the Sugarbush Green Team, the resort is always looking for ways to improve resource conservation, recycling, habitat protection, and environmental education efforts. The Green Team is an employee run effort to identify and implement programs that benefit the natural, built, and human environments at Sugarbush Resort and the larger community.
TELLURIDE SKI RESORT – COLORADO

<table>
<thead>
<tr>
<th>INVENTORY (fiscal year 2012)</th>
<th>MTCO$_2$e</th>
<th>TARGET</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scope 1 and 2 (required)</td>
<td>8,979</td>
<td>Telluride will reduce emissions by 5 percent below 2011 levels by 2018.</td>
</tr>
<tr>
<td>Scope 3</td>
<td>Not reported</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>8,979</td>
<td></td>
</tr>
</tbody>
</table>

REDUCE
Telluride continued lighting upgrades.
4.0 BEYOND THE FIRST YEAR: NEXT STEPS FOR THE CHALLENGE

The second year of the Climate Challenge has been a continued learning experience for the Challengers and the program alike. Challengers collected data in the remotest corners of their organizations, engaged management and staff in setting a target, and implemented an emission reduction project. Meanwhile, the Challenge program has sought to provide the best support to Challengers as they undertake these tasks.

As the Challenge enters its third year, Challengers and the program each will seek to improve. The quality of information collected for inventories will improve, awareness of the target will increase, and reduction projects will be a more integral aspect of the planning and budgeting process for Challengers. Meanwhile, the Challenge will consider improvements to tools, identify ways for Challengers to benchmark their operations with other Challengers, and improve recognition for activities, such as legislative advocacy and skier/rider education.

Hopefully, the third year of the Challenge also will see increased participation. It is only through the aggregate efforts of the ski industry and each individual skier/rider that there will be a significant impact on protecting winter pastimes.

Until next year, keep the Climate Challenge front and center and make the daily commitment to be mindful as operators and skiers and riders.