ARAPAHOE BASIN ENVIRONMENTAL POLICY

As stewards of an exceptional mountain environment, Arapahoe Basin Ski Area is committed to providing quality outdoor recreation experiences. Our staff and guests realize that Arapahoe Basin is a priceless natural treasure. We strive to continually improve our environmental performance in order to provide enjoyment of Arapahoe Basin for future generations of snow and mountain enthusiasts.
GREETINGS SNOW HUGGERS!

Seventy years ago, with people around the world reeling from the Great Depression and World War II, a new era was ushered in. A gallon of gasoline cost a mere $0.21, the federal minimum wage was $0.40, and one year’s tuition at Harvard University cost $420. The United Nations met for the first time in London in January, the bikini made its debut on a French beach in July, and in December of that fateful year, ski lifts turned for the first time at Arapahoe Basin. Seventy years ago, in 1946, The Legend was born.

The founders of A-Basin – Max Dercum, Larry Jump, Thor Groszold, Sandy Schauffler, and Dick Durrance – set out to create a mountain experience that would inspire visitors’ dreams and call them back to the mountains year after year. They chose a rugged basin nestled high along Colorado’s Continental Divide. With challenging terrain, beautiful scenery with ample sunshine and of course, plentiful snowfall, Arapahoe Basin quickly became a destination for extreme skiers and local families alike. The combination of unrivaled skiing and snowboarding and a laid-back, community-first approach to business solidified A-Basin’s place in the ski world and earned it a well-deserved nickname – The Legend.

Even though times have changed and the ski area has evolved, Arapahoe Basin has never waivered in its commitment to its mountain community. In recent years, this has meant a renewed commitment to environmental stewardship and sustainability across its entire operation. Implementing waste reduction strategies, investing in on-site renewable energy, and promoting carpooling and bus ridership are just the beginning. Line level employees and tenured managers alike are taking on an invigorated role in the ski area’s sustainability programs – and our guests are taking notice!

We carry the strong foundations of an amazing 70 years of ski history as we move forward toward the future of Arapahoe Basin and its pristine mountain environment. Serious steps will be necessary to ensure that we can protect this environment for future generations. As we write this next chapter in the A-Basin legend, expect sustainability to be a prominent theme. Our impacts cannot be ignored, and running a ski area will always entail at least a small amount of greenhouse gas emissions. But we strongly believe that we can all walk lighter on the planet – even in our ski boots. And we definitely believe that we all have the power to save the powder!

Sustainably yours,

Sha Miklas, Sr. Manager of Guest Services and Sustainability
Mike Nathan, Sustainability Manager
Alan Henceroth, Chief Operating Officer
Every ski area relies on a variety of resources to keep the lifts turning, snowcats grooming, and hot chocolate flowing. A-Basin is continuing to track how resources are used in order to see progress and discover inefficiencies. The goal is to continue to track utilities and analyze that data in order to make necessary changes to existing systems. These tweaks and changes minimize impacts on the natural environment while reducing resource consumption.

**ELECTRICITY**
Electricity is used primarily to turn chairlifts and to power buildings. In buildings, electricity goes toward powering office and kitchen equipment, lighting and, in some cases, heating.

**PROPANE**
Propane is the main fuel source for heat in most buildings and for most cooking appliances. Although it is one of the cleanest burning fuels with limited greenhouse gas emissions, propane is still a non-renewable fossil fuel which we strive to use less of each year.

**DIESEL AND GASOLINE**
Five snowcats, five pieces of heavy equipment, four UTV’s, nine trucks and road vehicles, and six snowmobiles keep the mountain moving. Idle times are limited and regular maintenance ensures these vehicles run smoothly and use fuel as efficiently as possible.

**WATER: SNOWMAKING**
From October through December, highly efficient snowguns provide a head start to early-season skiing and help build a base that lasts long into the summer. Water diversions are closely monitored and limited to ensure healthy conditions downstream and in associated ecosystems.

**WASTE: TRASH, COMPOST, RECYCLING**
Recycling and compost receptacles are provided for guests and employees wherever they may encounter a waste bin. Signage in each food venue helps identify which items are compostable and which items are recyclable.
Area-Wide Electricity

Area-Wide Electricity Use—By Function

Electricity Use by Function: Percentage

Notes:
Snowmaking designation here also includes some non-snowmaking usage (Molly's Magic Carpet lift, the top lift shack of Molly Hogan lift, Patrol Headquarters building, and the top lift shack for Lenawee lift)
Arapahoe Basin Resource Inventory

**WATER USED FOR SNOWMAKING**

- 5,000,000 to 30,000,000 gallons
- Operating Year: 10/11 to 16/17

**AREA-WIDE FUEL USE**

- Diesel and Gasoline Fuel Use
- 10/11 to 16/17
- Fuel Use Per Skier: .02 to .16
- Fuel Use Per Visit: .02 to .16

**AREA-WIDE PROPANE USE**

- 5,000 to 50,000 gallons
- Operating Year: 10/11 to 16/17
- Total Propane Used: .10 to .16
- Propane Per Skier Visit: .02 to .16
Arapahoe Basin has developed a strong and comprehensive approach to reducing its waste. Through recycling, composting, and implementing reusable dishware and cutlery— along with other efforts—A-Basin is able to keep more than a third of its waste from the landfill. By composting and recycling more than 100,000 pounds of waste each season, A-Basin has reduced its yearly greenhouse gas emissions by more than 60 metric tons of CO₂.

Arapahoe Basin’s 400-acre Montezuma Bowl terrain was developed in the summer of 2007 with an emphasis on minimizing environmental impacts. Alternative construction methods were used and fewer than three acres of trees were removed. The only structures installed were the chairlift (with shacks at the top and bottom), snow fences, an avalauncher tower, trail signs, boundary posts and a bathroom with a composting toilet. In addition, the lower chairlift shack is powered by a small solar array, eliminating the need for any electrical infrastructure.

In 1995, Arapahoe Basin began an analysis to implement a snowmaking system. The approval process took several years and included multiple government agencies and stakeholder groups. Key concerns were maintaining water quality and quantity and protecting fish habitats. Alternatives were developed to maintain more consistent stream flows, protect fisheries and minimize impacts to the North Fork and main stem of the Snake River.

Snowmaking construction began in July 2002 and was completed in the fall of 2003. Thanks to early-season snowmaking, Arapahoe Basin boasts one of the longest ski seasons in North America.

1. CONTINUE TO TRACK RESOURCE USAGE THROUGH THE NSAA CLIMATE CHALLENGE, WHICH INCLUDES A COMMITMENT TO PERFORM AN ONGOING GREENHOUSE GAS EMISSIONS INVENTORY, TO SET A TARGET FOR REDUCTION OF GREENHOUSE GASES, AND TO IMPLEMENT AN ON-SITE SUSTAINABILITY PROJECT EACH YEAR.

2. CLIMATE CHALLENGE GOAL: ARAPAHOE BASIN SKI AREA WILL REDUCE OVERALL GREENHOUSE GAS EMISSIONS BY 3 PERCENT BY THE 2019-20 SKI SEASON (FROM BASELINE YEAR 2009-10). WE WILL ALSO REDUCE BUILDING-RELATED GREENHOUSE GAS EMISSIONS 10 PERCENT BY THE 2019-20 SEASON.

3. INCREASE EDUCATION, OUTREACH, AND ADVOCACY SUPPORTING STRONG POLICY AND COMMUNITY ACTION ON CLIMATE ISSUES AT THE LOCAL, REGIONAL AND INTERNATIONAL LEVELS.

4. CONTINUALLY IMPROVE COLLABORATION AND COMMUNICATION WITH OUR ENVIRONMENTAL PARTNERS AND COMMUNITY.
WASTE REDUCTION POLICY
Waste reduction efforts are part of every employee’s daily job responsibilities. Wherever there is a garbage receptacle, there is a recycling receptacle. Employees encourage guests to recycle and are supported to share recycling and waste reduction ideas with their supervisors. Arapahoe Basin offers stations to dispose of compostable waste in all kitchen and dining areas at the Legends Café, Black Mountain Lodge, 6th Alley Bar & Grill, in the Snowsports lunch program and at all after-hours events. Compost bins are also available in most offices and on-mountain locations, including Ski Patrol Headquarters and the Vehicle Maintenance Shop.

All service containers that aren’t reusable are recyclable. “Hydration stations” encourage guests to refill their own bottles and to use reusable cups instead of disposable cups.

ENERGY-USE POLICY
Arapahoe Basin strives to use energy in the most efficient, cost-effective and environmentally friendly way possible. A-Basin will continually improve its energy performance with education and training by implementing effective controls and tracking strategies, and by seeking out innovative ways to save energy.

VEHICLE IDLING POLICY
In an effort to reduce greenhouse gas emissions, reduce fuel costs, and minimize vehicle hours, the National Ski Area Association’s ‘No Idling Policy’ was adopted in the 2010-11 season. Idling times must be limited for gasoline vehicles to just five minutes and for diesel vehicles to fifteen minutes. Guests are strongly encouraged to adhere to these guidelines, as are employees in their own vehicles.

PURCHASING GUIDELINES
Employees making purchasing decisions are encouraged to purchase from environmentally-responsible companies that manufacture environmentally-friendly products. Employees are empowered to spend a certain percentage more on such goods.

PUBLIC TRANSPORTATION/CARPOOLING
Arapahoe Basin strongly encourages guests and employees to ride the free Summit Stage bus or to carpool to the ski area. Lift ticket discounts and reserved parking spaces are available to the guests who do so. Employees are required to carpool or ride the bus to work on Saturdays.

DEPARTMENT SUSTAINABILITY PLANS
Each department at A-Basin is developing a sustainability plan specific to their own operation. These plans outline ways for their employees to uphold and contribute to A-Basin’s sustainability goals within the scope of their day-to-day responsibilities.

ACE’S WILD ADVENTURE
Arapahoe Basin has incorporated our sustainability message into our kids snowsports programs with Ace’s Wild Adventure. These educational areas are spread around the beginner terrain on our mountain, complete with educational signage pertaining to local plants, animals, and our mountain ecosystems. The areas correspond to collector cards that our students can accumulate over the course of their lessons and challenge our young skiers to emulate our environmental ethic with fun and easy sustainability efforts.

EMPLOYEE ENVIRONMENTAL FUND
In addition to charitable support of a number of community organizations, for the past 10+ seasons A-Basin has supported the strong work of two Summit County open-space organizations – Friends of the Eagle’s Nest Wilderness and Continental Divide Land Trust. Through the Employee Environmental Fund, where A-Basin employees donate pre-tax dollars from their paychecks and all donations are matched by the Basin, nearly $54,000 has been raised in support of land conservation and stewardship here in Summit County.
LIGTHTING RETROFIT
In 2012, A-Basin completed a comprehensive lighting retrofit to upgrade our existing and aging infrastructure to more modern and efficient technology. Approximately 525 bulbs were replaced in our base area and most on-mountain facilities, upgrading all T12 fluorescents to T8s, and all incandescent and halogen bulbs to CFLs or LEDs. This led to an estimated savings of 53,000kWh and close to 50 tons of CO₂ per year.

6TH ALLEY VESTIBULES
A massive renovation of the 6th Alley Bar & Grill was completed in the fall of 2013. The new bar features more seating, a loft area with an auxiliary bar, great touches of local, repurposed beetle-kill woodwork, and four vestibules sealing the new portion of the building from the outdoor elements. Conventional swinging doors, as were found at two of these entrances, allowed for frequent infiltration of cold outdoor air into our building and substantial heat loss when the doors were opened. By installing vestibules with two sets of tight weatherized swinging doors, airlocks were created at these entrances that prevent the substantial heat loss and cold air infiltration we experienced with our old doors. These doors account for more than half the entrances into the building, thus we estimate these vestibules improved the energy performance of the building significantly by eliminating costly air leaks.

WASTE-OIL FURNACE
In 2014, a CleanBurn Technologies waste-oil furnace was installed in our lift/vehicle maintenance shop. The furnace can burn motor oil, hydraulic fluid, transmission fluid and a number of other engine wastes to heat our primary garage space. By collecting waste-oil and fluids from our fleet of trucks, snowmobiles, and snowcats, the auxiliary motors in our lifts, and a number of employee home-oil changes, we have been able to decrease this building’s propane use by nearly 20 percent. By putting our waste-oil to use on-site, we also decrease our need to truck hazardous waste over Loveland Pass and to the Front Range for proper disposal. Not only does that limit the potential for a harmful spill on our sometimes treacherous mountain roads, but by our estimates, we’re keeping about 750lbs of CO₂ out of the atmosphere with each waste-oil recycling trip to and from Denver that we avoid.

FREEAIRE REFRIGERATION SYSTEM
In December 2015, an innovative new refrigeration system was installed in one of our walk-in coolers. The Freeaire System monitors the temperature inside the cooler, as well as outside the building, and when possible, cycles the outside air into the cooler to keep it cold. By taking advantage of our clean, cold air at 10,800’, conventional refrigeration components like evaporator and condenser motors can remain idle. With less run time, these components accumulate far less ice build-up, decreasing our need for defrost cycles. The Freeaire system helps us run this cooler using up to 90 percent less energy.
In March of 2015, A-Basin completed construction of a brand new building—the first in almost a decade! The Kids Center is the new home of A-Basin's kids snowsports programs, as well as an updated First Aid Clinic and ski patrol locker room. The main space of the building is designed to keep kids happy and busy before, during and after their lessons. It includes a kitchen facility, a dedicated lunchroom where kids can get a bite to eat or sip hot chocolate while they warm their toes, and a kids-only rental area.

The upstairs features a large, open floor-plan multi-purpose room and a suite of offices where our snowsports management works throughout the ski season. On the ground floor is a functional and modern First Aid clinic complete with examination rooms, a waiting room, and a convenient loading area to improve the medical care and privacy we give to our injured guests.

Sustainable building concepts were incorporated into the Kids Center’s design from the ground up and it is now by far the most energy efficient building at our ski area. The Kids Center’s sustainable design and features represent the kind of commitment to our environment we have here at the Basin. We hope it is the first of many large-scale projects and improvements at the ski area that will ultimately lead us to even better environmental performance.

**SUSTAINABLE BUILDING FEATURES INCLUDE:**

- Solar Power System – 13.5 KW array, featuring 50 solar panels. One of the highest solar installations in the world!
- Low-flow toilets and water fixtures
- Programmable thermostats and lighting sensors
- Large south-facing windows maximize natural sunlight for interior lighting and some heat
- Locally sourced beetle-kill pine and reclaimed barnwood interior trim and woodworking
- Environmental education pieces relating to our on-mountain ecological signage

**KIDS CENTER SOLAR POWER PRODUCTION**

<table>
<thead>
<tr>
<th>Operating Month</th>
<th>14/15 Electricity (kWh)</th>
<th>15/16 Electricity (kWh)</th>
<th>16/17 Electricity (kWh)</th>
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<tbody>
<tr>
<td>October</td>
<td>1,430</td>
<td>1,540</td>
<td>2,020</td>
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<tr>
<td>November</td>
<td>1,410</td>
<td>1,280</td>
<td>1,040</td>
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<tr>
<td>December</td>
<td>1,430</td>
<td>1,280</td>
<td>1,050</td>
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<tr>
<td>January</td>
<td>1,340</td>
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<td>February</td>
<td>1,270</td>
<td>1,290</td>
<td>1,200</td>
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<tr>
<td>March</td>
<td>1,210</td>
<td>1,230</td>
<td>1,310</td>
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<tr>
<td>April</td>
<td>1,150</td>
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<tr>
<td>May</td>
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<tr>
<td>June</td>
<td>1,050</td>
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<tr>
<td>July</td>
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</tr>
<tr>
<td>September</td>
<td>950</td>
<td>970</td>
<td>1,010</td>
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**TOTAL SOLAR PRODUCTION BY SKI SEASON**

<table>
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<tr>
<th>Ski Season</th>
<th>Production (kWh)</th>
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<tbody>
<tr>
<td>14/15</td>
<td>8,378</td>
</tr>
<tr>
<td>15/16</td>
<td>15,175</td>
</tr>
<tr>
<td>16/17</td>
<td>12,309</td>
</tr>
</tbody>
</table>

**16/17 CO₂ EMISSIONS REDUCTION EQUIVALENT**

<table>
<thead>
<tr>
<th>Operating Month</th>
<th>Number of Trees Planted (per 5)</th>
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</thead>
<tbody>
<tr>
<td>October</td>
<td>100</td>
</tr>
<tr>
<td>November</td>
<td>110</td>
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<tr>
<td>December</td>
<td>120</td>
</tr>
<tr>
<td>January</td>
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<td>April</td>
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<td>May</td>
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<tr>
<td>June</td>
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<tr>
<td>July</td>
<td>190</td>
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<tr>
<td>August</td>
<td>200</td>
</tr>
<tr>
<td>September</td>
<td>210</td>
</tr>
</tbody>
</table>

Notes: Planting one tree offsets the same amount of carbon emissions as generating 55.3 kilowatt-hours of electricity through renewable sources like solar.
HIGH COUNTRY CONSERVATION CENTER is a non-profit organization dedicated to promoting practical solutions for waste reduction and resource conservation in our mountain community. High Country Conservation Center works with residents, businesses and schools in areas including waste reduction, energy efficiency and clean energy and sustainable food production.  
970-668-5703 | WWW.HIGHCOUNTRYCONSERVATION.ORG

PROTECT OUR WINTERS unites and mobilizes the snowsports and outdoor communities against climate change. POW focuses on youth education, climate advocacy and community activism. Every guest can be a part of the solution by reducing their carbon footprint, supporting strong climate policy, and being a vocal advocate against climate change.  
720-656-9074 | WWW.PROTECTOURWINTERS.ORG

NATIONAL FOREST FOUNDATION engages Americans in community-based and national programs that promote the health and public enjoyment of the 193-million-acre National Forest System and administers private gifts of funds and land for the benefit of the National Forests.  
WWW.NATIONALFOREST.ORG

THE SUMMIT STAGE is Summit County’s free county-wide bus system that provides access to Arapahoe Basin from November through May. Guests who take the Summit Stage get dropped off right at the ski area and can receive lift ticket discounts for taking public transportation.  
WWW.SUMMITSTAGE.COM

FRIENDS OF THE EAGLES NEST WILDERNESS was formed to raise cash and in-kind donations to help the Dillon Ranger District of the White River National Forest maintain the Summit County portions of the Eagles Nest, Ptarmigan Peak and Holy Cross Wilderness areas.  
970-468-6219 | WWW.FENW.ORG

THE CONTINENTAL DIVIDE LAND TRUST is dedicated to preserving the unique open spaces of the Central Rockies, through land stewardship, public education and landowner consultation, to ensure and enhance the rural mountain character of our communities.  
970-453-3875 | WWW.CDLT.ORG

Arapahoe Basin began its partnership with HC3 in 2008 with the introduction of the Snow Huggers Club and the Save Our Snow celebration. More than $60,000 has been raised through Snow Huggers programs, all of which has benefitted the nonprofit. The Snow Hugger’s Club provides members with exclusive discounts at A-Basin facilities while the Save Our Snow Celebration is our yearly event focused on educating our guests, building collaboration, and having fun! The event includes a green village of our environmental partners, an on-snow gear demo, a prize drawing and silent auction, and live music. In addition to funds raised through the auctions and demo, A-Basin donates a dollar for each skier at the mountain that day.
MAKE A CLEAN GETAWAY
When buying your next car, pick the least polluting, most efficient vehicle that meets your needs. Maybe it’s a hybrid that combines a gasoline engine with electric motors, or an innovative all-electric vehicle. More and more car manufacturers offer an electric vehicle as part of their production line, while vehicle charging stations pop up in more locations every year.

DON’T BE A DRAG
Take your ski rack off your car and replace your snow tires with your regular tires at the end of the season. Both could save you six percent at the pump. A tune-up could boost your miles per gallon anywhere from four to 40 percent. A new air filter could get you 10 percent more miles per gallon.

SHARE A RIDE
When heading to the mountain, carpool or take public transit or shuttles to help reduce greenhouse gas (GHG) emissions associated with your travel.

BE AN EFFICIENT CONSUMER
Believe it or not, picking the right appliances, air conditioners and computers can make a big difference in reducing pollution from power plants. So look for the most energy-efficient models. You might have to spend a bit more up front, but you’ll save on electricity bills.

HAVE A BRIGHTER IDEA
Incredible improvements in lighting technology in recent years has made LED bulbs affordable and more efficient than ever. Not only do LEDs use far less energy than conventional bulbs, they also last more than 20 times as long, making replacements and associated disposal unnecessary. Replacing a single 60W incandescent bulb with a comparable LED can save more than 1200 kWh over the life of the bulb, or about $160.

CONSIDER CLEANER ENERGY
If you live in a state that lets you choose your power company, pick one that generates at least some of its power from wind, solar or other clean energy sources. If you don’t have the option to select a supplier yet, you might still be able to support renewable energy through an option on your electricity bill.

STAND UP AND BE COUNTED
Contact your elected representatives and ask them to do more to reduce CO₂ emissions and keep winter cool for skiing and snowboarding. Be sure to vote in all local, state, and national elections.

BE AN ADVOCATE
Become involved in grassroots environmental action. Find a cause that’s meaningful to you and support it with your time and enthusiasm! Take the POW SEVEN Pledge at protectourwinters.org.

SPREAD THE WORD
Tell your lift mates, family and friends!