Agenda



Time	Item		
9:00 am	Coffee & Pastries Networking		
9:15 am	Welcome & Introductions		
9:30 am	CTA Program Updates & Announcements		
9:40 am	Subcommittee Structure & Recruitment		
9:55 am	 Member Presentations Sugar Bowl Palisades Tahoe Vail Resorts 		
10:55 am	Wrap Up & Adjourn		





Climate Transformation Alliance Quarterly Meeting

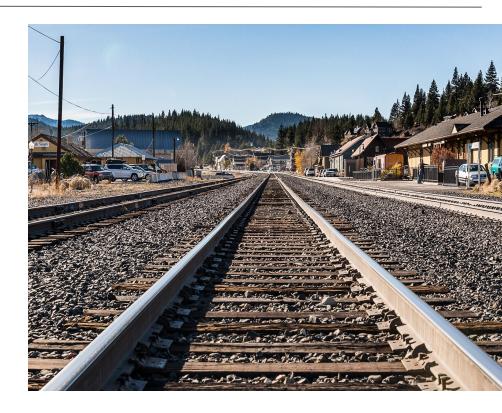
July 12th, 2024 Truckee Tahoe Airport

CTA Climate Transformation Alliance

Welcome & Introductions



- Continue networking at CTA HAPPY HOUR! Tonight at RMU from 4-6pm!
- Popcorn project updates



CTA Updates

СТА

- Updated Documents on Website
 - Member Expectations, Strategic Plan, Charter
- Subcommittee Recruitment
 - Communications
 - Membership
 - Fundraising
 - Program
- Webinar Series
 - July 24, 12–1 on "Financing the Costs of Building Decarbonization"



Truckee Tahoe Building Decarbonization Pilot Program



- On-demand and in-person contractor training
 - All 10 virtual courses are available on the online platform
 - In-person training: July 17
 - Mentorship
- Electrification coaching service live!
 - Available for home and building owners in the Truckee Tahoe region



Town of Truckee Dark Sky Outdoor Lighting Rebate Program





- Available for Residential and Commercial buildings
 - o 57 lighting fixtures replaced
- Additional \$20 bonus per fixture for fixtures with motion sensors

Applicant Testimonial

"It makes me happy to gaze up at our beautiful skies..sans glaring light. Thank you and the Town of Truckee for encouraging this!"

CTA Subcommittees - Overview



Program

Guide and inform the overall programming of CTA to ensure it is aligned with the mission & vision and community needs through member engagement, monitoring of CTA programs, and development of new initiatives. Recruit and retain members by maintaining a membership database, increasing member engagement through member-only events and resources, and ensuring member needs are met through CTA programming.

Membership

Communications

Develop and implement a CTA communications strategy that promotes membership, member engagement, and brand recognition. Finance & Fundraising

Provide budget oversight and develop and implement a fundraising strategy that identifies eligible competitive funding (i.e., grants), philanthropic funding, and potential for membership fees to ensure CTA has funds to meet its programmatic goals.

CTA Subcommittees - Structure



Subcommittee Chair:

Oversees subcommittee and reports to CTA Governing Partners

SBC Staff: Provide administrative support

Subcommittee Members:

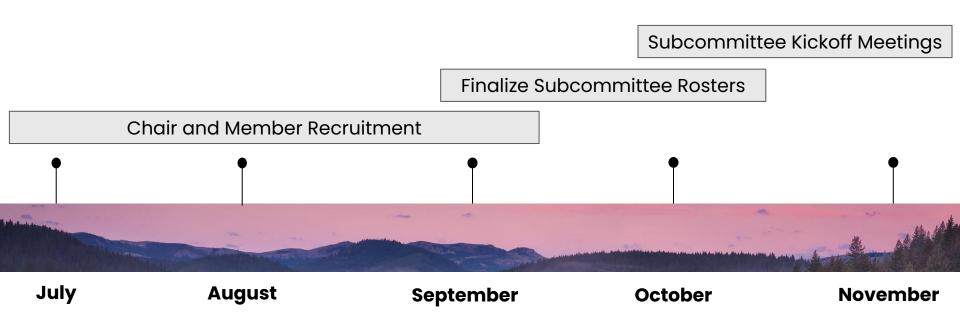
4-5 individuals with expertise or interest in subcommittee's primary purpose

Subcommittee Time Commitment - One Year Terms

Recurring Monthly: 2-4 hours on subcommittee meetings & tasks Recurring Quarterly: 3 hours on CTA meetings & share out to Governing Partners One-time Annually: 5 hours on supporting CTA Community Event

CTA Subcommittees - Timeline





Ski Resort Presentations









Sugar Bowl Katya Christian Sustainability Manager **Palisades Tahoe**

Erik Miller Risk, Safety, and Sustainability Specialists Vail Resorts/Northstar Ryan Groat & Lila Peterson Sustainability Manager



Sugar Bowl Resort Climate Transformation Alliance

Climate Transformation Alliance July 12, 2024



Sustainability at Sugar Bowl

- Dedicated position since 2021, sits in the Planning & Development Department
- Started by designing sustainability focus areas modeled after NSAA Sustainable Slopes, and other ski resorts' websites
- Pillars of Sustainability:
 - Engagement Community & industry collaboration, workplace culture, sharing with guests
 - Waste Reduction Food waste management, reducing landfill waste & single-use items
 - Forest Health Wildfire resilience & fuels reduction projects, Firewise Community
 - Energy & Emissions Tracking GHG emissions, seeking cleaner energy alternatives



Greenhouse Gas Emissions: How We Measure

Using NSAA Climate Challenge framework and current EPA emissions factors

Scope 1: Direct Emissions

- Propane (Building Heat & Appliances) 0.0057 MTCO2e/gal
- Diesel 0.0102 MTCO2e/gal
- Gasoline 0.0088 MTCO2e/gal

Scope 2: Indirect Emissions (Electricity)

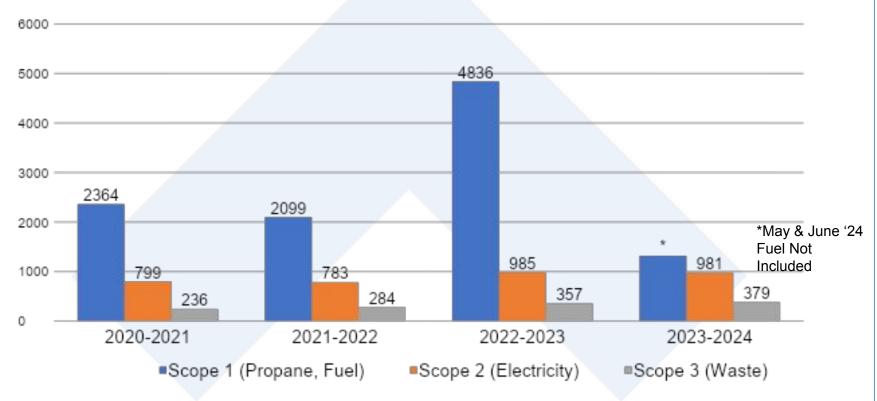
- Electricity Delivery from PG&E
- Electricity Generation from Pioneer Community Energy 0.242 MTCO2e/MWh

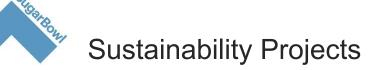
Scope 3: Other Indirect Emissions

Solid Waste - 0.52 MTCO2e/ton



Annual Greenhouse Gas Emissions (MTCO2e)





LED Lighting

- Summer 2024
- A few buildings have been completed
 seeing 2/3 electricity reduction already
- Made possible by PG&E On-Bill Financing incentive program

Fuels Reduction Projects

- 2022-2025
- 291 Acres
- Over \$600,000 in local grants from Truckee Fire (Measure T) and TTCF

Waste Reduction

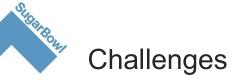
- 2023-2024 move to reusables at Judah Lodge
 - Space challenges at Village Lodge and Mid Mountain Lodge
- Seeking possible solutions for onsite composting
- Moving the needle toward zero landfill waste

Transportation

• Seeking possible solutions for employee & public transportation to Donner Summit

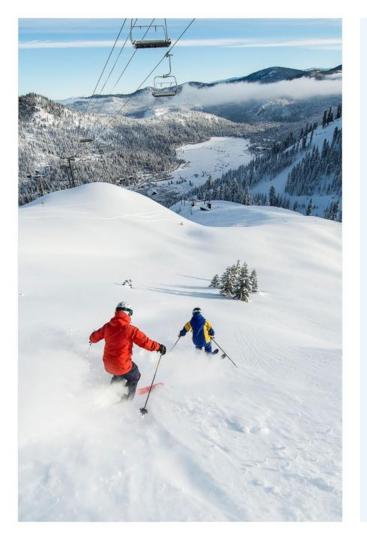
Woody Biomass Energy

- 2024: Received USFS Wood Innovations Grant to help fund initial design, engineering, & fuel supply logistics
- Seeking funding opportunities



- Small, independent resort with limited resources
- Remote location with extreme weather and road conditions in the winter
- Snowbound during the winter
- Within multiple jurisdictions and agency boundaries
- Climate and weather are increasingly dynamic, with a direct impact on Sugar Bowl's profitability and ability to spend on projects
- Grants, incentive programs, and partnerships are essential
- Focus on moving the needle





Alterra Forward Stance 2030 Commitments

Reduce Carbon Emissions by Over 50%

Innovating in the ski industry, our partnership with the Science Based Targets initiative (SBTi) secures third-party validation for our aggressive emissions reduction goal. By 2030, we're determined to outpace scientists' recommendations, aiming for a 1.5°C limit. Our commitment extends beyond emissions from our direct operations, urging suppliers and partners to join our accelerated journey.

2 Transition to 100% Renewable Energy

By 2030, our pledge is unwavering: 100% renewable electricity. We're strategically blending onsite and offsite renewable projects and fostering proactive partnerships with utility providers across our diverse portfolio to bring this commitment to fruition.

Attain Carbon Neutrality

At the heart of our mission is slashing our carbon footprint through operational upgrades and decarbonization. Committed to absolute reduction, we simultaneously embrace high-quality carbon offset opportunities when needed. This dual strategy propels us toward carbon neutrality in our owned operations by 2030.

Sustainability at Palisades Tahoe

- 1. Efficiency
- 2. Electrification
- 3. Renewables
- 4. Waste Reduction and Diversion
- 5. Advocacy and Collaboration





Energy Reduction and Efficiency

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Energy Audits

McKinstry-led audits of

existing buildings and

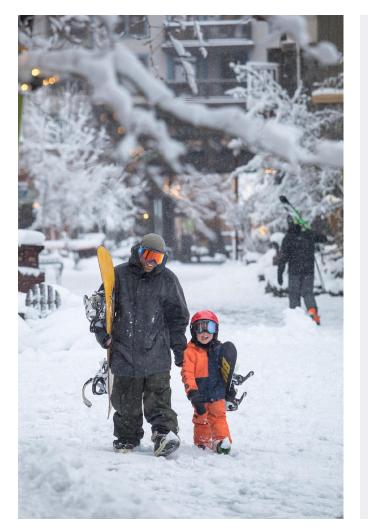
infrastructure

Active Energy Management

Reveal cloud-based facilities management Anticipated impact: 142 mtCO2 per annum



Sustainability is integral to future capital improvement and expenditure



Renewable Diesel Transition

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Neste MY R99 Renewable Diesel

OEM-approved Hydrotreated Vegetable Oil-derived diesel Fully compatible with all diesel engines Up to -75% lifecycle GHG emissions vs fossil

diesel



100% uptake in all Palisades Tahoe diesel vehicles and machinery



Sum

Summer '24: Tank replacement with 50,000gal tank



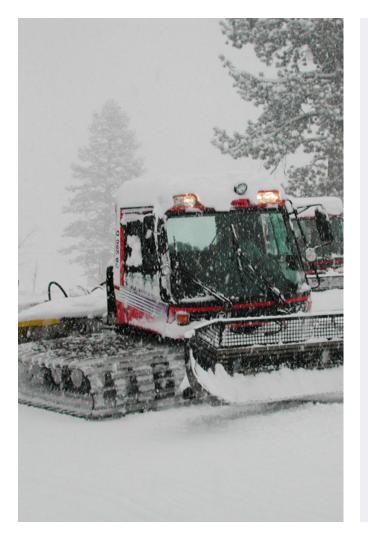
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Parking and Transportation



2023-24 Transit Reduction Strategy yielded 205 mtCO2 emissions reductions



Electrification



Converting snowmobile fleet to Taiga EV snowmobiles



On-road fleet electrification

2 EVs ordered



Exploring opportunities for on-site generation



Significant barriers with cost and utility



Waste Reduction and Diversion

2023-24

Single-Use Plastic

Great success with water Less so with other products

EcoChit Receipt Paper **Recycled and** Recyclable Reforestation Moving toward Alterra-wide adoption

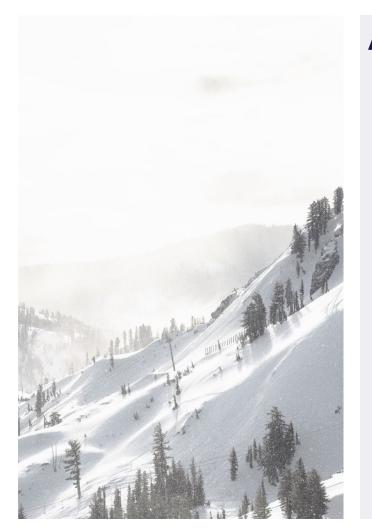


Cooking Oil

Recycling

Food Waste Composting On-site composter Compostable disposables

24



Advocacy and Collaboration



Paid Volunteer Opportunities Sugar Pine Foundation Truckee River Days Pilot program with planned expansion Alterra-wide

Tahoe Earth Day

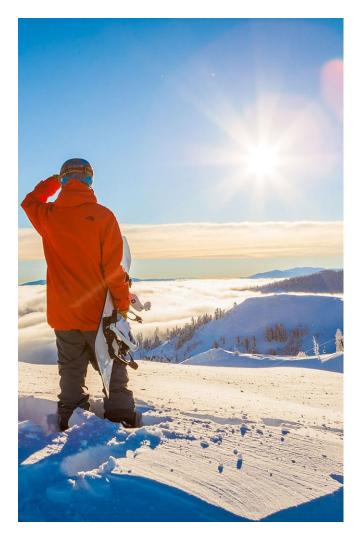
Lake Tahoe's Largest Earth Day Gathering

6

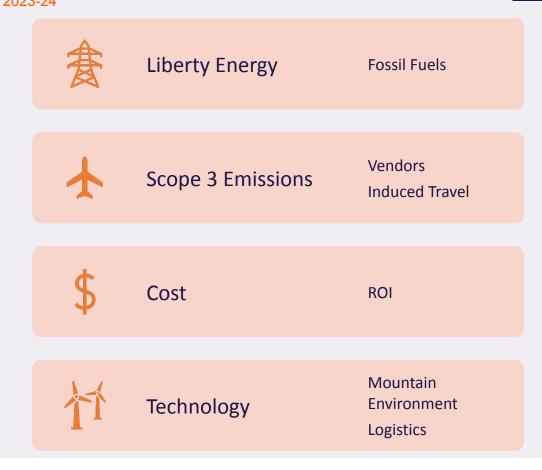
Carbon Neutral and Waste Neutral Events All Palisades Tahoe-hosted events pledge to conduct their events sustainably



Community Partnerships SBC POW Tahoe Food Hub And many more



Barriers and Challenges



VAIL RESORTS - TAHOE ENVIRONMENTAL AND SOCIAL RESPONSIBILITY

SUSTAINABILITY

Zero net operating footprint by 2030

Announced in 2017, Commitment to Zero is our bold goal to reach a zero net operating footprint by 2030, including zero net emissions, zero waste to landfill, and zero net operating impact on forests and habitat.



100%

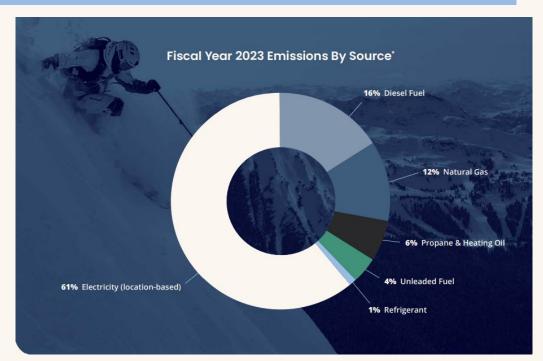
RENEWABLE ELECTRICITY AT OUR NORTH AMERICAN RESORTS 15%

ENERGY EFFICIENCY SAVINGS FROM OUR 2017 BASELINE ACHIEVED AHEAD OF OUR 2030 TARGET 6.1M

POUNDS OF LANDFILL WASTE REDUCTION FROM BASELINE

SUSTAINABILITY Zero net emissions

Vail Resorts is adapting our business to be more resilient to climate change, while also mitigating our impact by targeting zero net emissions by 2030. Our holistic strategy, and investments in renewable electricity development and energy efficiency are driving results.



SUSTAINABILITY



Emission Reduction Programs

- o Carpool program
- o EV charging stations
- Energy reduction projects
 - Purchasing high efficiency snow guns
 - LED lighting retrofits
 - Programable thermostats
- Idlewise program for reducing vehicle idling including SNOWSat data from snowcats
- Energy management program
 - Monthly investigations & internal reporting
 - F&B/Maintenance energy checklists
- GHG inventory collected and reported yearly
- Supporting Biomass project through our Epic Promise Foundation
- Habitat Management Plan



	Facility: insert name		
Basic Checklist (Maintenance Techs) - Monthly	Applicable?	Date Checked, Name, Notes	
Check-in with facility manager (F&B, VRR, etc.) (discuss any energy concerns)			
Snowmelt systems working properly (sensors, setpoints, no overrides)			
Exhaust hoods working properly (sensors and controls working properly, etc.)			
VFDs & pumps working properly (not in-hand, running per schedule)			
Domestic hot water system checked (setpoints, temp setback after hours, circ pumps off after hours)			
Thermostats checked (setpoints, schedule, temp setback after hours)			
Outside air dampers working properly (controls, actuators, linkages)			

SUSTAINABILITY

Waste Reduction Initiatives

- Enterprise and resort level landfill reduction goals
- Employee waste sorting in FB outlets
- Shift to durables supported by increased dishwashing capacity
- o Supply Chain Sustainability
- Hard to recycle programs
 - Nitrile gloves
 - Snack wrappers
 - Pass media
 - Hard goods
 - Uniforms
 - Soft Plastics





EMPLOYEE UNIFORMS

48,000 pounds of retired uniforms were recycled into a composite material that is used to manufacture other items.

SNOWCATS AND EQUIPMENT

527,000 pounds of retired snowcats and heavy equipment were sold to a vendor partner in FY 2023 to keep decommissioned equipment out of landfills.



NITRILE GLOVES

18,000 pounds of nitrile gloves were diverted from the landfill through the Kimberly Clark *Right Cycle* program since 2018. These recycled gloves are turned into plastic pellets for a variety of uses.



UKRAINE UNIFORM DONATION

700 pairs of winter pants and nearly 1,000 jackets were donated to the Ukrainian citizens in need during 2022. SCS team members helped Gear re-Store, our uniform repair vendor, to sort serviceable pants to send to Ukraine.



SKI AND SNOWBOARD EQUIPMENT

159,000 pounds of usable ski and snowboard equipment was diverted from the landfill by auctioning it to used gear distributors. In addition, 7,000 pounds of retired helmets were recycled into plastic pellets for an array of future uses and 90 damaged snowboards were sent to the *Jones Snowboards Re-Up Tech* pilot program to be recycled into new boards.

SUSTAINABILITY Challenges and Opportunities

Ski industry is dynamic

Technology

Scale, growth and change

2023 Vail Resorts Environmental & Social Responsibility Report



CTA Announcements & Action Items



- Action Items
 - Subcommittee Recruitment
 - CTA Community Dashboard Development
- CTA Events
 - CCL & 100% Renewable Truckee Webinar
 - July 24th 12pm-1pm on Zoom
- CTA Happy Hour @ RMU!
 - Today! 4pm-6pm
 - No-host bar
- 2024 Quarterly Meetings
 - October 11th, 2024



Thank you!

Please reach out to Sierra Business Council with any questions

Website: climatetransformationalliance.org Email: cta@sierrabusiness.org Phone: (530)582-4800

Sign In Here:

CTA Climate Transformation Alliance

