



Recycle Colorado NoCo Council Q4 2023 Agenda

Virtual: Nov 21st 10AM -11:30AM

Zoom Meeting

Attendees: Becca Walkinshaw, Ally Byzewski, Liz Chapman, Nick Wilson, Darla Arians, Rob Writz, Laura Levesque, Ryan Call, Alicia Archibald, Neil Noble, Chandra Valenza, Jamie Blanchard-Poling, Adam Hill, Royal Rich, Dave Goldschmidt, Olsons with Pretred, Karlee G., Mellik Gorton, Kara Wright

Q4 Speaker Presentation Agenda (10-10:55)

10:00 Welcome (type in the chat your name and where you are from)

10:02 Introduction to Recycle Colorado

- (LIZ) Recycle Colorado: To advance infrastructure, end markets, and state and local policies in waste reduction, recovery, and diversion.
- (Becca) NoCo Council introduction: educate Northern Colorado business, residents, municipalities, and Recycle Colorado members on the vast recycling resources available to them.
- Introduce Council Leadership (introduce self)
 - Chair: Becca Walkinshaw, Republic Services
 - Vice Chair: Amy Randell, Circular Colorado
 - Recorder: Kara Wright, Pinyon Environmental
 - Board Liaison: Charlie Kamenides, City of Longmont & Neil Nobel, Republic Services
 - Staff Lead: Ally Byzewski, Operations Coordinator

10:05 Introduction to Presentation - Becca

- Spotlight presentation until 10:50
- NoCo Council Meeting after until 11:30
- All are welcome to stay and join our meeting after
- Voting on new members for the 2024 Leadership – huge opportunity to grow as a professional in the industry, meet others, network and be a thought leader.

Tire Presentation: Record

Part 1: Colorado Tire Stories

10:10 Dave Goldschmidt, General Manager at Tires To Green Recycling Colorado (T2GR). He has spent time over the last decade in tire processing and management.

NOTES

- Tires to Green is located at the tire mountain site
- Small Start up business
 - in 2022 processed 400,000 tires
- Goal is to make tires circular in Colorado
- The average Colorado resident throws away 1 ¼ tires a year
- How can you reuse tires:
 - Fiber
 - Steel Wire
 - Crumb Rubber
 - Replace coal in pyrolysis or cement kilns, etc. and can be “cleaner”. Just produces a little more sulfur that a scrubber can extract
- In Colorado, most waste tires are used for burning and we need to find a better end use. Tires to Green is trying to build a model to offer a higher value end use product for tires
- Benefits of what Tires to Green does:
 - Environmental issues: Tires are great breeding grounds for diseases and disease vectors (bugs)
 - Resource conservation: Contain valuable materials (Steel, fiber) that we can reuse to make new products
 - Energy Savings: Save on producing a brand new tire or other materials
 - Reduction of illegal dumping and fires, fires can burn for 30+ days and there is not a great way to extinguish them
 - Economic Growth: creates jobs based around recycling, processing, and picking up tires
- About 40 million waste tires in Colorado monofill

- How Tires to green Processes tires
 - Collection of tires or drop off of waste tires
 - Deconstruct tires and find uses for various parts that are in tires (use side walls of semi tires for highway barriers)
 - Passenger tires go right into the machine to become chips and get turned into Tire derived fuel (TDF) that can be burned in a cement kiln
 - Separate out steel
 - Shape rubber into other various sizes. The further you break it down the higher the cost, but higher the value of a product.
- Working on Education and awareness - increase awareness can increase engagement

7. Legislation and Incentives

Tiering breakdown of rebate amounts

Per ton rebate for 2023

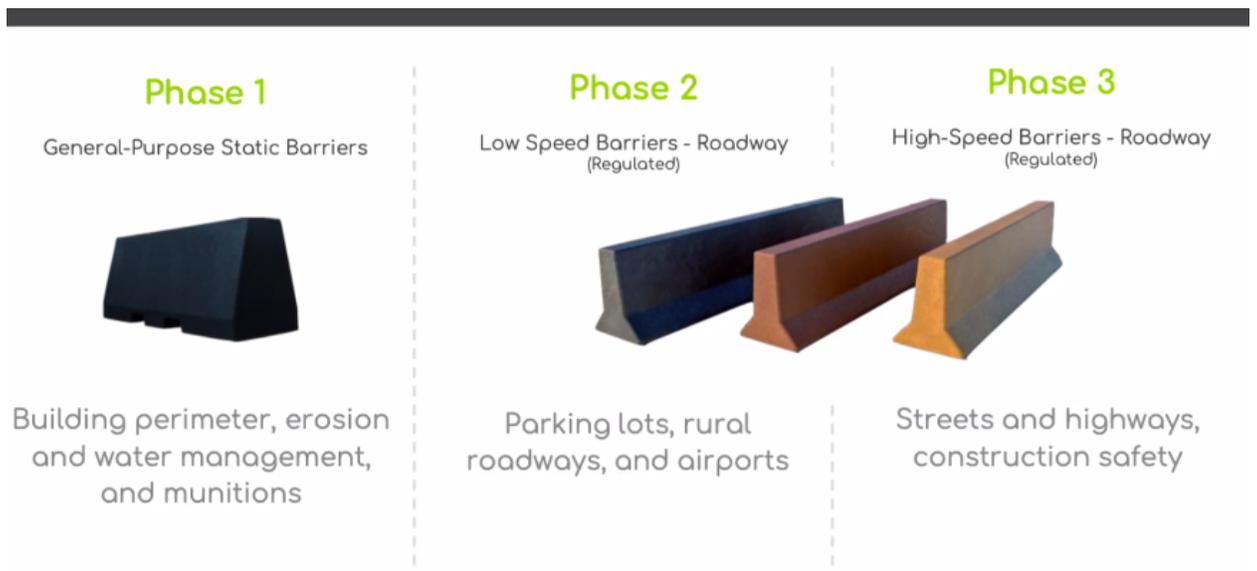
Tier 1	Tire-derived fuel, crumb rubber	Per ton rate: \$80
Tier 2	Molded products, rubber mulch	Per ton rate: \$40
Tier 3	Waste tire bales, alternative daily cover, civil engineering	Per ton rate: \$20
Waste tire hauler rebate		\$20 per ton

- - would like to see rebates align with level of effort for the processor from tier to tier
- End markets:
 - current: daily cover, coal alternatives for cement kilns, ground cover and molded goods, rubberized asphalt and cement (improved O&M, noise reduction)
 - aspirational: consumer goods, building materials, fuel

10:25 Royal Rich, Sales Manager for Pretred, a Colorado based manufacturing company.

- Here is short PRETRED video: https://youtu.be/Xy2_ZTLh_0o

- recycles about 2 million tires annually, 75 tires go into one barrier,
 - cost-competitive to concrete
 - previous models used 70 tires, but they recently expanded height by 2 inches to incorporate 5 more tires
- a lifecycle carbon analysis demonstrated that pretred barriers use 280% less carbon than traditional concrete barriers
- circular products: can be reground and pressed into new products
- 1 mile of barrier vs concrete = 5.5 million lbs of carbon avoided
- better O&M compared to concrete and plastic
- color and size flexibility: color is inherent and will not be impacted by condition



- low speed roadway testing will begin in 2024 followed by high speed and jet blast
- currently in Phase 1: construction, events (go see them at Red Rocks!)
- facility expansion is underway as they plan to reach 100 barriers/day in production
 - also working towards 10 ft barrier and incorporating more recycle material (have been approached several tires about rubber shingles)
- Rubberosion: another brand under the same roof, using larger sized chips to create wattles and erosion control, sediment catching mats, check dams, rumble strips
- CDPHE tire rebates (set to sunset in 2024 with no requirement to renew) conflict with EPA preference for uses (ex: higher incentives for incineration)
 - working towards aligning state programs with the level of effort required to scale, specifically permitting and testing costs

Part 2: Colorado Tire Politics and Business

10:40 Rich & Royal Discuss

- rebates should change eligibility of end user vs processor to be less exclusive
 - in the past, this has forced Pretred to source tires from outside CO
- regarding externalities and exposure related to ground cover/recreational use, studies have not resulted in consensus on impacts
- EDP laws have been enacted in CT, and Pretred hopes to support it's strength and distribution across the US
 - some consider toxicity should be addressed at production
- similar concerns exist among stakeholders for hard plastics
- weight of pretred vs concrete barrier
 - 30% lighter, 1700 lbs
 - heavier than water-filled plastic
- tire derived rubber has been used in shingles, what is your perspective on opening end markets
 - pretred has been approached about incorporating shingles into pretred which can be a signal that the end-market for shingles is solid (powder product)

10:50 Q&A

10: 55 Close Spotlight

- Thank you
- Put your contact in the chat

All people attending the meeting are invited to stay and participate in our meeting.

10:55 Begin Q4 2023 Council Meeting

10:55 – 11:15 Community Updates

- Updates on what we are up to: Name, Organization, What Are You Up To?
- [Register here](#) to join CDPHE's Stakeholder List for 2024 Legislative Proposal to Update the Pollution Prevention Act and Improve Sustainability Services
 - you will not automatically be notified if you were previously engaged:
 - Liz Chapman is leading efforts to establish a cohesive rural voice
- Updates from Recycle Colorado - Ally and Charlie

o will be communicated via email

11:15 Introduce New Leadership for 2024 Council (Ally)

- Chair
 - o Becca is moving on to pursuing a role in EV
 - o 2024: Nicholas Wilson, Business Development and Project Manager at West Highland Management Group ([see his LinkedIn](#))
- Co-Chair
 - o Amy Randell is stepping down
 - o 2024: Chandra Valenza, Community Outreach Manager at Boulder County ([see her LinkedIn](#))
- Recorder
 - o 2024: Kara Wright, Sustainability Specialist at Pinyon Environmental ([see her LinkedIn](#))

[2023 Review](#)

- 2023 Goal To educate Northern Colorado business, residents, municipalities, and Recycle Colorado members on the vast recycling resources available to them.
 1. **Recycling Resources for Municipalities and Communities w/ TASP-** Learn how to use Colorado’s new technical assistance program for local governments interested in establishing a new recycling and compost program or expanding an existing recycling and compost program in Colorado’s 13 front range counties; and to customize your collateral for your community and find grant programs for residents of single-family, multi-family and drop off sites.
 2. Colorado Iron & Metal Tour – Colorado Iron & Metal President Dan provided us with a sneak peek on how “all things metal” are collected and recycled in Northern Colorado
 3. Colorado Stud Company Virtual Tour- Colorado Stud Company owners previously hauled and resold used lumber. They saw a business opportunity & invested in new manufacturing equipment, creating premium studs from scrap lumber. These recycled studs are used locally as building materials for construction sites. Launching into full operation this August, Colorado Stud Company is saving an estimated 69,000 Trees this year with its methods of recycling wood. More info at <https://www.recyclecolorado.org/north...>
 4. Tire Recycling in Colorado with Pretred and Tires to Green Recycling
- Quarterly meetings

- Recycle Colorado Annual Meeting Presentation
- [2022 Focus – Plastics](#)
- 2021 Focus – End Use

Next Meetings: flexible in times, locations and dates; goal to meet every three months.

- Next Leadership Planning Meeting: December/January
- **Q1 February 14th, 10:00am-11:30am**
- **Q2 May 8th, 10:00am-11:30am**
- **Q3 August 14th, 10:00am-11:30am**
- **Q4 November 13th, 10:00am-11:30am**

11:30 Closing Remarks