Climate Action Collaborative
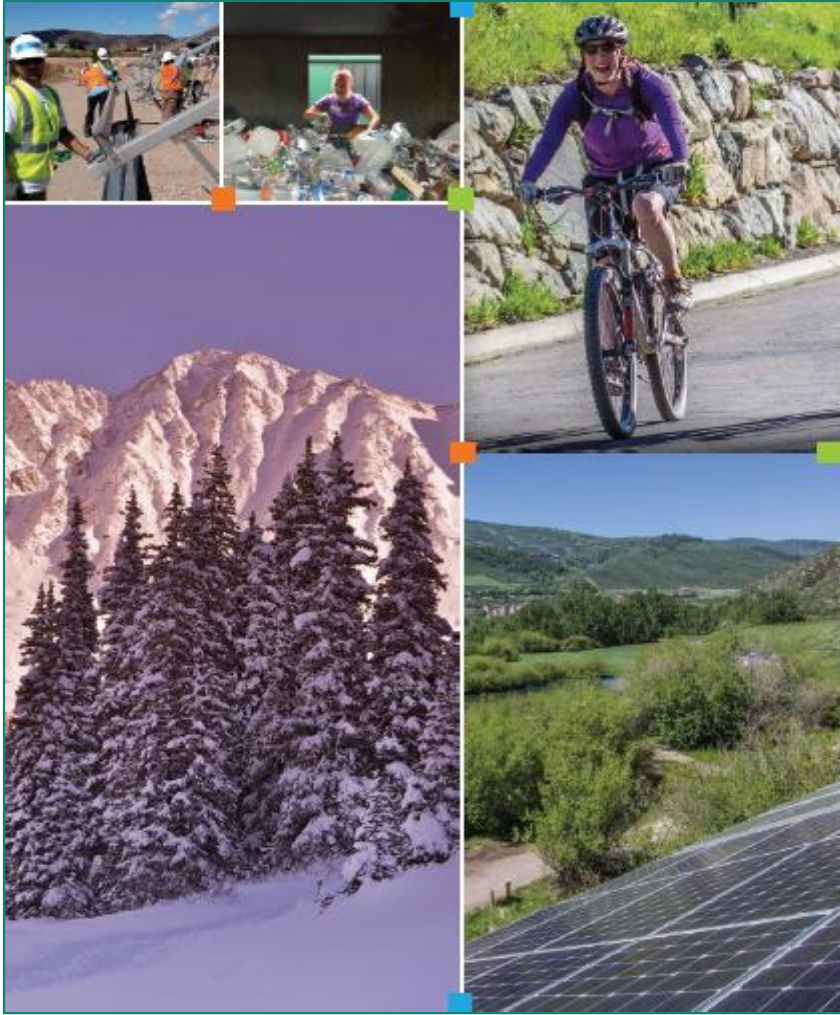
for the Eagle County Community

The Climate Action Plan for the Eagle County Community

CLIMATE ACTION PLAN

FOR THE EAGLE COUNTY COMMUNITY

December 2016

Reduce local carbon emissions

25% by 2025 and

80% by 2050

Climate Action Partners

Sector Working Groups

Education & Outreach

Built Environment Residential & Commerical

Energy Grid & Renewable

Waste Materials Management

Transportation Fuel Emissions

Working groups are established for Buildings, Transportation, Waste, Energy Supply, and Education & Outreach.
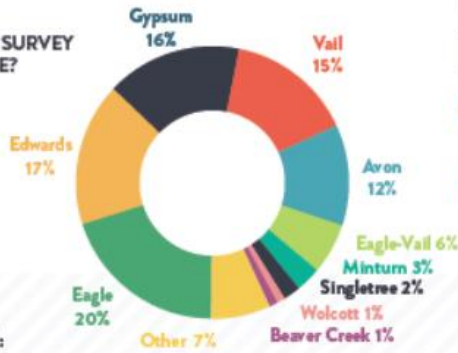
Each group is made up of community experts in each field, who work together to implement community-scale sustainability projects

New this year – Citizens Working Group and Water Working Group

Climate Action Community Survey Results

In 2018 the Climate Action Collaborative asked the Eagle County community to participate in a Climate Action survey to understand the attitude on climate change locally. The survey asked community members to comment on the sustainability actions they already participate in and what future sustainability efforts they would be in support of. The results of this survey demonstrate that our community is to act on climate change and is supportive of local efforts to do so!

SURVEY RESPONDERS WERE SUPPORTIVE OF LOCAL EFFORTS TO:

- promote climate change education and promote sustainable practices in local schools
- engage school children and their families to create future environmental stewards
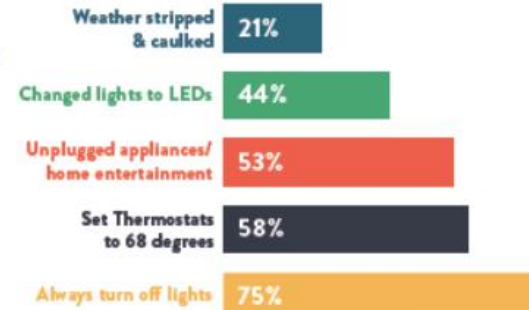- provide incentives to landlords to use more energy efficient appliance
- promote sustainable water use in hotels
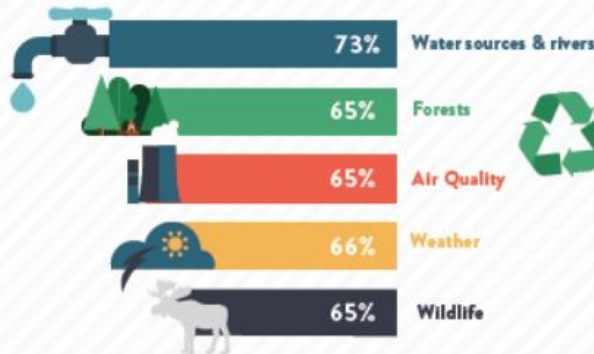
86% THINK LOCAL GOVERNMENTS NEED TO ACT ON CLIMATE CHANGE

WHERE DO SURVEY TAKERS LIVE?

- Gypsum 16%
- Vail 15%
- Avon 12%
- Eagle-Vail 6%
- Minturn 3%
- Singletree 2%
- Wolcott 1%
- Beaver Creek 1%
- Other 7%
- Eagle 20%
- Edwards 17%

WHAT DID YOU DO AT YOUR HOME?

Weather stripped & caulked	21%
Changed lights to LEDs	44%
Unplugged appliances/ home entertainment	53%
Set Thermostats to 68 degrees	58%
Always turn off lights	75%

SURVEY TAKERS ALWAYS RECYCLE:

- Plastics & Metal — 71%
- Paper & Cardboard — 69%
- Compost — 43%

CONCERN FOR RESOURCES?

Water sources & rivers	73%
Forests	65%
Air Quality	65%
Weather	66%
Wildlife	65%

BIGGEST BARRIERS

RECYCLING
don't know how
a lot of effort
no recycling at apartment
no space

ENERGY EFFICIENCY
someone else is in charge of maintaining the residence and they can't afford to fix it

How are GHG (Carbon) Emissons Measured?

Waste - measured by the amount of waste going to the landfill + percentage of that waste that was 'once alive'

Transportation - measured in vehicle miles traveled + the type of vehicle traveling those miles

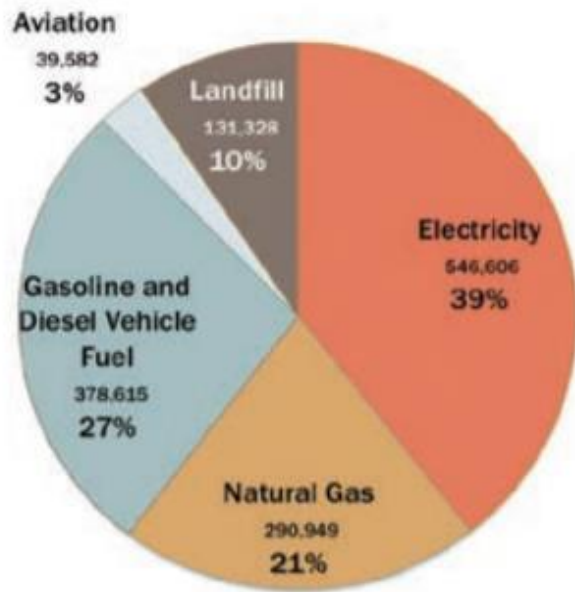**Aviation** - airplane fuel sold within Eagle County

Buildings - measured by the amount of natural gas and electricity residential and commercial buildings uses

Electricity - % of renewable energy supplied to the grid
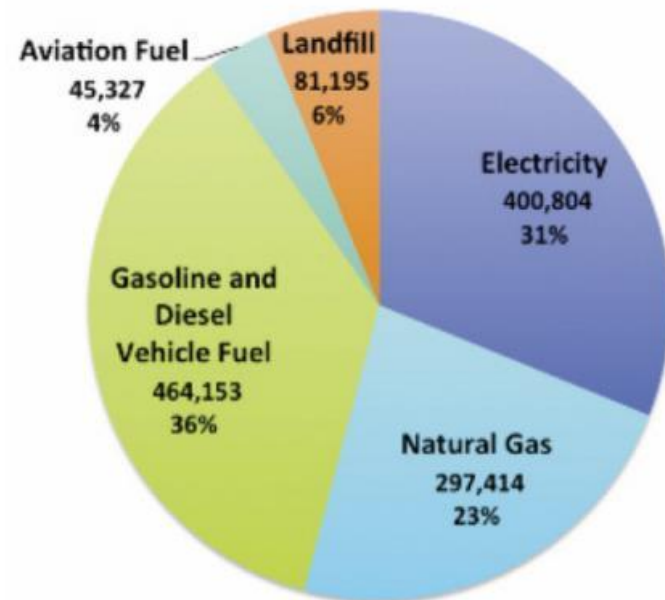
Natural Gas – emissions from burning natural gas

GHG Inventory

3. Emissions by Source, 2014
Metric tons of CO_2e

**1.4 M metric tons
CO2e**

4. Emissions by Source, 2017
Metric tons of CO_2e

**1.28 M metric tons
CO2e**

Key Takeaways

Good news - we're moving in the right direction - GHG reduced slightly. Thanks to Western Colorado State University for providing the tools to track our results, and forecast the results of strategies moving forward.
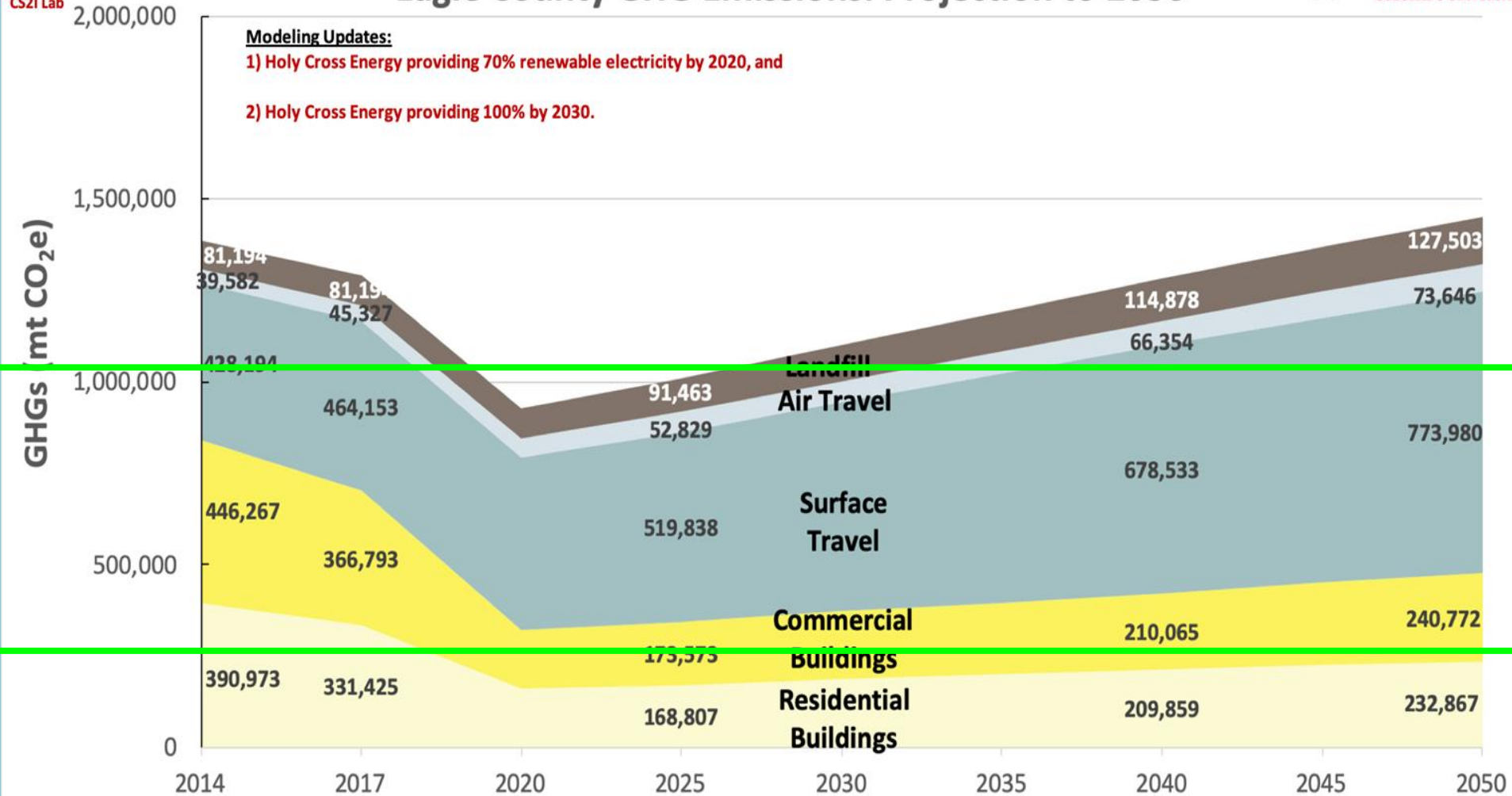
- Reduction so far is mostly from power supply - HCE + Xcel emissions factor.

- We need to continue GHG reduction efforts in landfill and buildings

- **But.. Transportation is #1 target -** the biggest emissions source, and growing. Also the most difficult to change - all communities share this same problem

Key Takeaways

21% reduction in carbon emissions required between now and **2025** to reach our goals
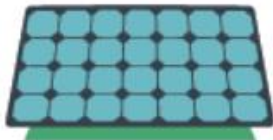
We have a long way to go!

Eagle County GHG Emissions: Projection to 2050

WESTERN
COLORADO UNIVERSITY

Modeling Updates:
1) Holy Cross Energy providing 70% renewable electricity by 2020, and

2) Holy Cross Energy providing 100% by 2030.

GHGs (mt CO$_2$e)

- 81,194
- 39,582
- 81,19_
- 45,327
- 438,194
- 464,153
- 446,267
- 366,793
- 390,973
- 331,425
- 91,463
- 52,829
- 519,838
- 173,573
- 168,807
- 127,503
- 114,878
- 73,646
- 66,354
- 678,533
- 773,980
- 210,065
- 240,772
- 209,859
- 232,867

Landfill
Air Travel
Surface Travel
Commercial Buildings
Residential Buildings

2,000,000 | 1,500,000 | 1,000,000 | 500,000 | 0

2014 | 2017 | 2020 | 2025 | 2030 | 2035 | 2040 | 2045 | 2050

2018 Impact Report

COMMUNITY IMPACT HIGHLIGHTS

Rebates for rooftop solar through Walking Mountains Energy Programs **DOUBLED**

HOLY CROSS ENERGY COMMITS TO ACHIEVING 70% RENEWABLE ENERGY SOURCES BY 2021

ELECRIC **BIKE SHARE** SYSTEM *e-assist bike demo*

Eagle County hosted a 3-month **Electric Vehicle Sales Event** with regional partners

Holy Cross provided **FREE EV chargers** *for homes and businesses*

Town of Avon **BANS** plastic bags

US GREEN BUILDING COUNCIL *starts new chapter in Eagle Valley to engage local builders in green building best practices.*

AVAILABLE TO ALL EAGLE COUNTY RESIDENTS — CONSTRUCTION + DEMOLITION, COMPOST, TEXTILE RECYCLING

LOCAL GOVERNMENT ENERGY ACADEMY FROM COLORADO STATE UNIVERSITY HOSTS 2-DAY WORKSHOP IN EAGLE COUNTY

WASTE WIZARD **EAGLE COUNTY RECYCLING APP LAUNCH**

actively green

SUSTAINABLE BUSINESS CERTIFICATION PROGRAM

walking mountains *sustainability*

61 Certified Businesses
28 Pursuing Certification
46% of waste diverted from landfill
17% of total business energy use came from renewable energy

All actively green businesses report on energy use, water use, and vehicle mileage, and each has a goal to improve over time.

CARBON REDUCTION AWARD 2018

EAGLE RIVER FOOD BANK

Diverts food waste from our local grocery stores, which was headed to the landfill. They package the food and bring it to neighborhoods around the valley who are food insecure. They compost whatever they cannot pass out, and therefore save huge amounts of food from going to the landfill!

TOTAL CO2 EMISSIONS IMPACT:

2,108 tons of CO2e through Energy Smart
21.5 tons of CO2e through Sole Power
14.10 tons of CO2e through LED Swaps

2,143.6 TONS of CO2e
ELIMINATED = 455 cars taken off the road
= 257 homes annual energy use

What we've accomplished

- ✓ Accelerated the climate conversation in the valley
- ✓ Expansion of or creation of new sustainability departments or positions with partner entities
- ✓ County-wide collaboration on outreach and education efforts
- ✓ Connecting partners to resources
- ✓ Connecting entities to work on co-beneficial projects

Focus Areas

#1 Waste: Education & Infrastructure

#2 Energy Efficiency in Buildings

#3 Multi-modal Transportation

#4 Behavior Change

#5 Renewable Energy

Waste: Education & Infrastructure

Education

1. Eagle County Waste Wizard was launched

2. Bi-Annual Recycling Guide for Eagle County

Infrastructure

1. Textile, Compost, Construction & Demolition Diversion Opportunities

Looking Ahead…

Standardized signage for public recycling bins

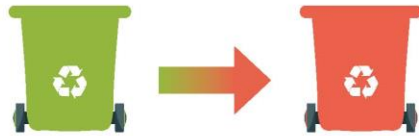Reducing single-use waste at major events

School recycling programs

Send your waste to a better place — eagle county waste wizard

Be Better At Recycling

WHY? One bad bin can contaminate a truck of good bins. When in doubt, check the Eagle County Waste Wizard App.

Put In Your Recycling Bin

- Glass Jars *w/out lids*
- Plastic Bottles, Tubs, Jugs & Jars *w/ lids*
- Tin Cans
- Aluminum Cans *plz don't crush*
- Glass Bottles *w/out lids*
- Paperboard *no frozen food boxes*
- Paper
- Newspaper
- Office/Mixed Paper
- Magazines
- Junk Mail

Don't Put in the Recycling Bin It Goes Somewhere Else!

- Electronic-Waste
- Greasy Pizza Boxes *compost if you can!*
- Large metal
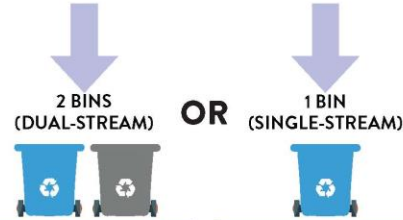- CFL Light Bulbs
- Syringes & Needles
- Textiles

Check the **Waste Wizard** app on where to take these items in the county.

Never Put in Your Recycling Bin

- Plastic Bags *don't bag your recyclables*
- Broken Stemware or Ceramics
- Small Plastics *utensils, cold/hot drink lids, dressing cups*
- #7 PLA Plastic
- Styrofoam

To recycle right, start here:

HOW DO YOU RECYCLE AT HOME? DO YOU PUT YOUR RECYCLING IN...

2 BINS (DUAL-STREAM) OR **1 BIN (SINGLE-STREAM)**

Dual-stream (2 bins) recycling requires that you separate your plastics, glass, cans, bottles from the paper and cardboard. In dual-stream, cardboard is not collected curbside and should be taken to a drop-site.

> COMMUNITY DROP-SITE
> VAIL HONEYWAGON

in the communities of:
TOWN OF EAGLE
TOWN OF MINTURN
ARROWHEAD

Single-stream (1 bin) recycling allows you to put all recyclables into the same bin.

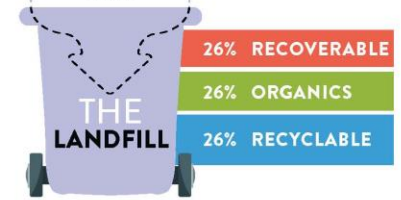Note that most businesses use single-stream.

> VAIL VALLEY WASTE
> WASTE MANAGEMENT
> VAIL HONEYWAGON

all other residential pick up aside from the dual stream communities on left.

IT'S TRICKY

- these items depend on your stream-
check the Waste Wizard App for answers

- Aseptic Cartons *juice and milk cartons*
- Cardboard
- Clam-shell containers *plastic fruit & veggies containers*
- Plastic cups
- Shredded Paper
- Starbucks/other hot cups
- Tin Foil *clean and balled up*

90% OF YOUR WASTE CAN BE DIVERTED FROM THE LANDFILL

- 26% **RECOVERABLE**
- 26% **ORGANICS**
- 26% **RECYCLABLE**

CURRENT RECYCLING RATES

- Eagle County: 26%
- National Average: 35%
- Eagle County Climate Action Plan Goal: 30% by 2030

42% OF OUR INDIVIDUAL GHG EMISSIONS COME FROM HOW WE PRODUCE, CONSUME, AND DISPOSE OF OUR STUFF AND FOOD

ClimateActionCollaborative.org
#BeBetterTogether

The *Eagle County Waste Wizard* is Your Free Recycling App

Download on the App Store
Android app on Google play

Ask the Waste Wizard at walkingmountains.org/recycle

SCAN ME

CLIMATE ACTION COLLABORATIVE

walking mountains *sustainability*

Energy Efficiency in Buildings

New Construction

1. Building Code Task Force - Above building code standards

Existing Buildings

1. LED Swaps for residents
2. Benchmarking large commercial buildings
3. Expansion of EnergySmart programs

Looking Ahead…

Incorporation of above building code standards

Promotion of all-electric heating systems + new tech

Multi-Modal Transportation

1. E-Bike Demo

2. Deployment of EV fast-charging stations in every town in the County

3. Expansion of Zagster Bike Share

4. Coordinated Information Hub with Avon, Vail, Beaver Creek, and ECO Transit – coming end of 2019
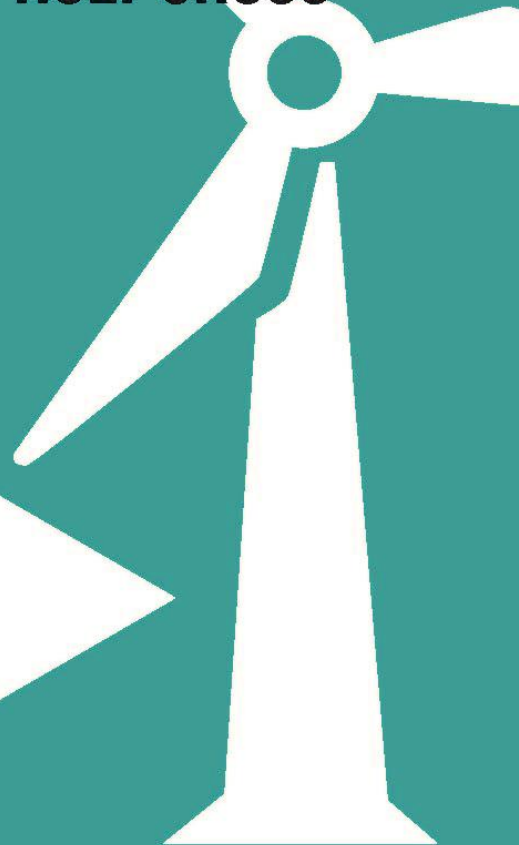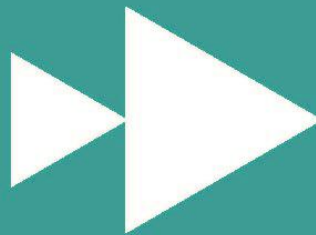
Looking Ahead…

Mobile/online payment system for ECO transit

E-Bike Share Pilot with Town of Vail

Renewable Electricity

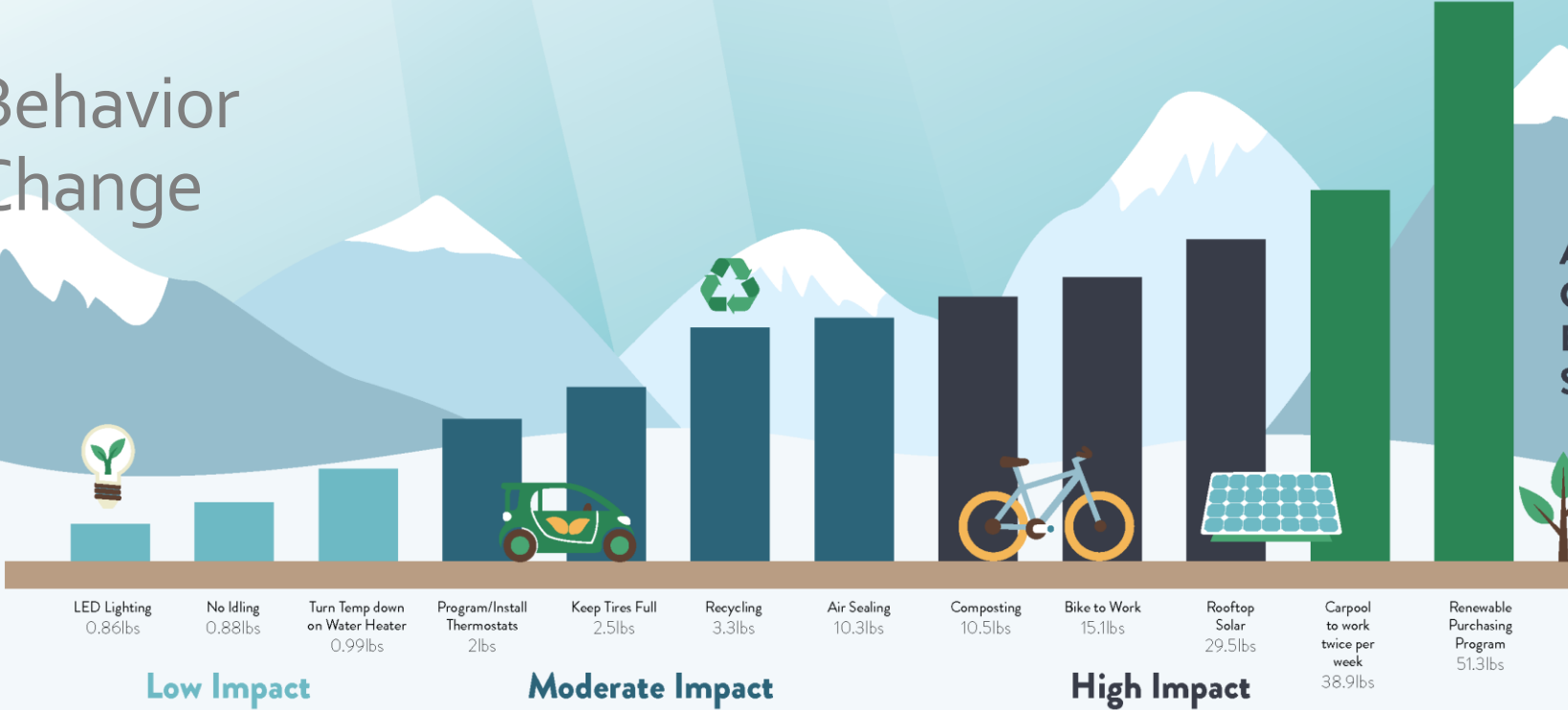## 100% Renewable Electricity Commitments

- Town of Vail
- Town of Avon
- Eagle County
- Eagle River Water & Sanitation District
- Town of Minturn (Xcel)
- **As of last week, Town of Eagle!**

Participation has increased 300% in 2019

How do your actions stack up?

Behavior Change

Annual Carbon Emission Savings

LED Lighting
0.86lbs

No Idling
0.88lbs

Turn Temp down on Water Heater
0.99lbs

Program/Install Thermostats
2lbs

Keep Tires Full
2.5lbs

Recycling
3.3lbs

Air Sealing
10.3lbs

Composting
10.5lbs

Bike to Work
15.1lbs

Rooftop Solar
29.5lbs

Carpool to work twice per week
38.9lbs

Renewable Purchasing Program
51.3lbs

Low Impact

Moderate Impact

High Impact

Behavior Change Campaign

Goal To get Eagle County residents out of their car 2x per week

Milestone 1 Community transportation survey to understand values related to commuting behavior

Milestone 2 Business engagement: adoption of incentives/programs/policies to support alternative commuting for employees

Milestone 3 Launch a community-wide social marketing campaign

Milestone 4 Incorporate carpooling, bus, and other alt commuting incentives/programs in the community. i.e. discounted parking rates for carpools

Thank you!

Questions?

CLIMATE ACTION COLLABORATIVE

#BeBetterTogether