Garfield Clean Energy 2024 Annual Report

Prepared by CLEER: Clean Energy Economy for the Region
(970) 704-9200 • www.GarfieldCleanEnergy.org

Residential Program

GCE's residential program provides energy efficiency consulting and rebates to Garfield County residents. The goal of the program is to help each client understand their energy use and take steps to reduce energy use in their home. This includes connecting participants with available funding sources, rebates and tax credits. The measures that were taken and reported to the CLEER team are then tracked for reporting.

Residential program summary

Residential totals include both ReEnergize projects and Glenwood Springs Electric rebates and the energy and financial savings achieved from these projects.

Total Residential Activity Summary	Q1	Q2	Q3	Q4	Annual Total
Residential upgrades completed	19	36	42	22	119
Residential Coaching Requests	20	60	40	139	259
Annual Carbon Savings (Tonnes/yr)	23.46	160.22	83.36	62.83	329.87
Total project costs	$80,202	$33,855	$61,228	$20,897	$196,183
Total rebate amount	$6,492	$33,618	$62,064	$20,713	$122,886
Estimated annual energy cost savings	$4,048	$35,355	$12,708	$10,957	$63,067

ReEnergize program summary

ReEnergize is a GCE-funded low-to-middle-income rebate program that assists residents of Garfield County with weatherization and energy efficiency upgrades.

- **Program upgrades include:** water heaters, insulation, air sealing, LEDs, windows, programmable thermostats, Energy Star fridges, Air Source Heat pumps/mini-split heat pumps

2024 ReEnergize Garfield County Program to-date	Homes Qualified	Upgrades complete	ReEnergize funding allocated	Total paid for projects
Parachute / Battlement	3	6	$4,100	$4,100
Carbondale	5	12	$12,962	$12,274
Glenwood Springs	12	22	$24,000	$21,849
New Castle	13	29	$40,000	$27,591
Rifle	6	12	$16,000	$15,986
Silt	4	10	$11,000	$3,322

Countywide total	**43**	**91**	**$108,062**	**$85,122***
Waitlist	**10**			

As of 1/7/2025

***** The final total paid for projects is lower than the total allocated due to projects coming in under the estimate, the delay in reported totals from the end of 2024, and in 2024 due to the change in expected funds from the EECBG funds that were delayed. This delay resulted in some projects being completed or billed in 2025.

CARE: The Colorado Affordable Residential Energy program provides income-qualified Coloradans, in the 60-80% AMI bracket, in participating counties with free home energy efficiency upgrades for homeowners and renters. It is facilitated by Energy Outreach Colorado.

WAP: The Weatherization Assistance Program helps residents with an income less than 60% of the state median income (SMI), and covers a variety of energy efficiency and weatherization home upgrades. WAP is a federal program facilitated by the Colorado Energy Office.

Glenwood Springs low-to-medium income (GWS LMI): This program is for Glenwood Springs Electric customers who earn 150% or less AMI. Most people have accessed this funding by applying for ReEnergize, but it is not necessary to do so. By utilizing these funds for GWSE customers, GCE was able to increase the number of households that could be served across the County.

Commercial Program

Commercial Coaching:
CLEER's Buildings Specialists provide energy coaching and technical support to businesses, governments, and other organizations throughout the County. Technical support includes identifying upgrades for customer-owned buildings, rated equipment performance verification, equipment recommendations, and research on rebates and tax credits available.

Commercial Program Summary

Commercial activity summary	Q1	Q2	Q3	Q4	Annual Total
Commercial upgrades completed	0	0	1	0	1
Commercial building walk-throughs and site visits	5	7	1	3	16
Commercial Coaching Requests	5	7	1	7	20

Upgrades that earn rebates often include lighting and HVAC improvements. Commercial walk-throughs entail an assessment of the building and are followed by a summary report detailing suggested improvements and financial support to make those improvements.

*Commercial rebates are available from Glenwood Springs Electric, Black Hills Energy, Municipal Energy MEAN, Xcel Energy, and Holy Cross Energy.

Commercial Program Direct Consultation Summary

Commercial entity	Community	Technical Consultation	Walk-through Date
Q1 consultation: 5			
Iron Mountain Place	GWS		2/2/2024
SGM	GWS		2/8/2024
Best Western Antlers	GWS		2/26/2024
Wapiti	Rifle		3/5/2024
Bravado Ranch	Garfield County	3/22/2024	
Q2 walk-through/site visits: 7			
Red Hill	Carbondale		4/4/2024
Bravado Ranch	Garfield County		4/4/2024
Glenwood Hot Springs	GWS	4/18/2024	
135 E. First Street	Parachute		5/9/2024
Wapiti Commons Blower door testing	Rifle		5/10/2024
Garfield County Airport	Rifle		5/15/2024
Near New	Carbondale		5/22/2024
Q3 walk-through/site visits: 1			
Carbondale Launchpad	Carbondale	9/16/2024	9/16/2024
Q4 walk-through/site visits: 7			
Grand Valley Rec/ Parachute School District Early Child Care building	Parachute		10/17/2024
LiftUP	GWS	10/17/2024	10/17/2024
Breitllteberg	Garfield County		10/22/2024
Hospitality workshop	Garfield County	10/23/2024	
Launchpad HVAC support	Carbondale	10/29/2024	
Habitat modular facility consultation	Virtual	11/20/2024	
Carbondale Town Hall mechanical discussion	Carbondale	12/9/2024	

Advanced Energy Management

Program Summary

Garfield Clean Energy's Advanced Energy Management program tracks natural gas and electricity use for GCE member buildings and provides coaching on energy savings measures.

- Tracking 240 utility bills monthly
- Monitoring 15-minute interval data for 35 GCE buildings
- Reviewing holiday shutdowns for Thanksgiving and Christmas
- Carbondale Third Street Center, Roaring Fork water treatment plant, Glenwood Springs Community Center Ice Rink, and Parachute Town Hall each saved over 10% in Q4

AEM savings Summary	Q1	Q2	Q3	Q4	Annual Totals
Buildings tracked per event/quarter	36	36	32	30	36
Total quarterly kWh savings over 2023	28,589	-138,840	-1,229	-155,351	-266,831
Percent savings reduction	1.00%	-5%	0%	-6%	-2%
Estimated avoided costs	**$3,145**	-$15,272	-$135	-$17,089	-$29,351
Carbon Savings (MT CO2e)	19	0	0	0	19

Contributing to the reductions for the 4th quarter, several buildings did save energy throughout the year over 2023. Those GCE buildings include:

- Carbondale Roaring Fork Water Treatment Pl., Town Hall, Rec Center, and Third Street Center
- Glenwood Springs Ice Rink
- Parachute Town Hall
- CMC Calaway building

	Q1	Q2	Q3	Q4	Annual Totals
Buildings that saved energy	16	11	14	7	9
total kWh saved	132,689	84,995	124,977	48,224	193,954
% savings	7%	11%	9%	4%	11%
Estimated avoided costs	$14,596	$9,349	$13,747	$5,305	$21,335

Holiday shutdown savings

Over the Thanksgiving and Winter holidays, there were some savings seen, especially over Christmas Day. Collectively GCE's buildings only saved 390 kWh on Christmas. However, on Christmas Day 15 of the GCE buildings saved energy over 2023 resulting in a cumulative 18% savings that day for those buildings. The buildings that saved include:

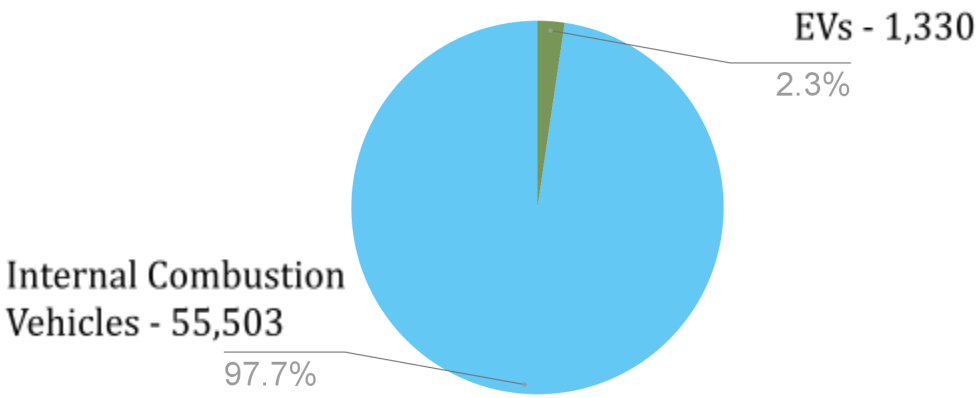
- Carbondale Roaring Fork Water Treatment Plant, Town Hall, and Third Street Center
- Glenwood Springs City Hall and Ice Rink

- Parachute Town Hall
- RFTA Aspen and Glenwood maintenance facilities
- CMC Spring Valley, and Glenwood buildings

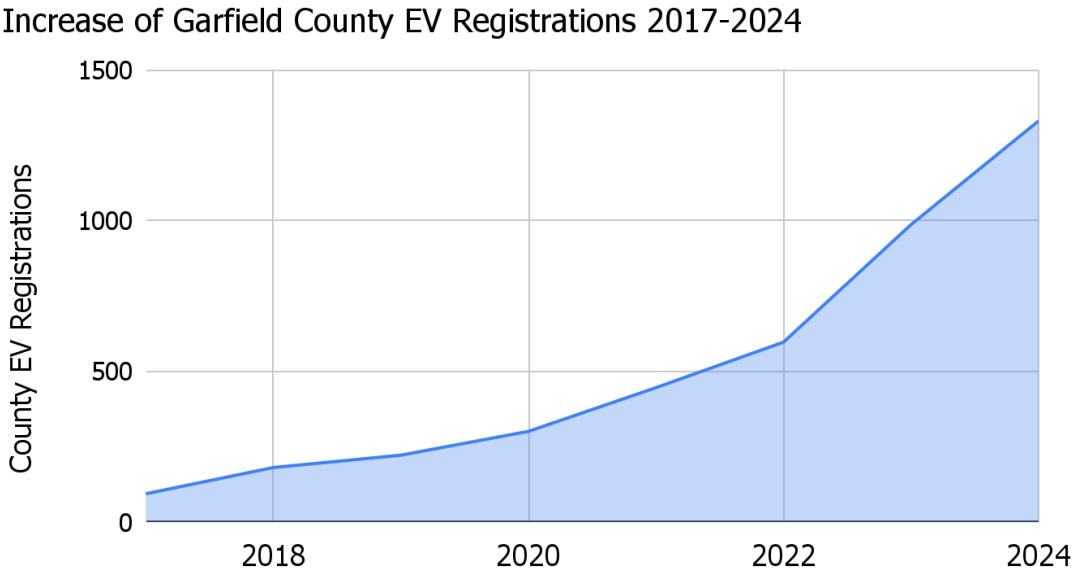
AEM savings Summary	Thanksgiving Weekend	Christmas Day	New Years Day
Buildings tracked per event	29	29	29
Total event kWh savings over 2023	-12,094	390	-2,286
Percent savings reduction	-12%	2%	-13%
Estimated avoided costs	-$1,330	$43	-$252
Buildings that saved energy	**8**	**15**	**10**
Estimated avoided costs	$652	$537	$248

Transportation Program Summary

Registered Vehicles in Garfield County 2024



Transportation Totals Helped by GCE	
Program	**Deliverables**
eBikeThere	Provided 50 bikes to low-income residents, many of whom were school district staff
EV charging ports	159 total (105 Level 2 ports and 54 DCFC ports)
Tracking EV adoption	Registered EVs rose to over 2% of registered vehicles in Garfield County - a **35% increase** over 2023



Events Summary

Listed below are the events that have occurred to date. Many events that occurred in quarter two were in the planning process during quarter one.

Event/ Webinar name	Date	Location	Participants
"What's New in the 2021 Energy Code: Multifamily Construction" training	3/20/2024	Glenwood Springs	33
New Castle Earth Day	4/20/2024	New Castle	50
Glenwood Spring Arbor Day	4/27/2024	Glenwood Springs	75
2021 Energy Code Overview	4/30/2024	Glenwood Springs,	15

		remote	
Building Envelope Workforce Training (2 days)	5/2/2024	Glenwood Springs,	10
Colorado Electric and Solar Ready Model Code Training	5/7/2024	Webinar	20
Residential Thermal Envelope Standards for 2021 Energy Code, Training	5/14/2024	Webinar	20
Air and Vapor Control Layers for Building in Cold Climates, Training	5/21/2024	Webinar	20
Powering Hospitality webinar	5/21/2024	Webinar	3
Putting Energy Codes into Practice, Training	6/3/2024	Glenwood Springs	15
Mini-Split Heat Pumps for Existing Homes	6/5/2024	Webinar	76
Carbondale EV Ride and Drive	6/7/2024	Carbondale	120
Carbondale EV101 Presentation	6/7/2024	Carbondale	45
E-BikeThere GarCo Workshop	6/11/2024	Parachute	13
E-BikeThere GarCo Workshop	6/12/2024	Carbondale	19
E-BikeThere GarCo Workshop	6/18/2024	Rifle	14
E-BikeThere GarCo 1-1 Workshops (multiple dates	6/19/2024	Carbondale	4
BikeThere	6/26/2024	Garfield County Libraries	300
Heat Pumps for New Homes	7/10/2024	Webinar	
Ducted Air-Source Heat Pumps	7/24/2024	Webinar	
CFI Charging Locations	7/25/24	Virtual	20
Grand Valley Days	8/17/2024	Parachute	40
Rifle City Council presentation on EV Charging	8/21/2024	Rifle	9
Energizing Climate Solutions	8/22/2024	Aspen Meadows	175
Mountain Towns 2030 Climate Solutions Summit ReEnergize presentation	10/15/2024	Jackson, WY	60
Powering Hospitality (in-person)	10/24/2024	Glenwood Springs	11
Buildings Working Group Lunch	10/31/2024	Carbondale	15
Hometown Holidays	12/7/2024	Rifle	30
GCE Total	**28**		**1212**

Media Stories

1/17/2024
Glenwood Springs Post Independent
Can an all-renewable grid power an all-electric economy?
https://www.postindependent.com/opinion/can-an-all-renewable-grid-power-an-all-electric-economy/

1/19/2024
Aspen Times
Can an all-renewable grid power an all-electric economy?
https://www.aspentimes.com/opinion/can-an-all-renewable-grid-power-an-all-electric-economy/

2/21/2024
Sopris Sun
ReEnergize 2024 (Scuttlebutt item)
https://soprissun.com/scuttlebutt-calendar-11/

3/4/2024
MSN.com
Colorado Solar Incentives: Tax Breaks, Rebates, Net Metering and More
https://www.msn.com/en-us/money/personalfinance/colorado-solar-incentives-tax-breaks-rebates-net-metering-and-more/ar-BB1i4RwC

3/4/2024
KMTS
KMTS Connections: Garfield Clean Energy Re-Energize GrantsReEnergize,
https://www.kmts.com/audio/kmts-connections-garfield-clean-energy-re-energize-grants

3/6/2024
Sopris Sun
Save your energy (Scuttlebutt item)
https://soprissun.com/scuttlebutt-community-calendar-6/

3/22/2024
Glenwood Springs Post Independent
Garfield County's success in solar energy development
https://www.postindependent.com/opinion/cleer-column-garfield-countys-success-in-solar-energy-development/

6/19/2024
Glenwood Springs Post Independent
A day to celebrate biking, an activity that benefits everyone
https://www.postindependent.com/opinion/garfield-clean-energy-column-a-day-to-celebrate-biking-an-activity-that-benefits-everyone/

6/26/2024
Sopris Sun
BikeThere! Garfield County [event listing]
https://soprissun.com/event/bikethere-garfield-county/

7/22/2024
Glenwood Springs Post Independent
The path to net zero leads to net savings
https://www.postindependent.com/opinion/cleer-column-the-path-to-net-zero-leads-to-net-savings/

8/9/2024
Glenwood Springs Post Independent
Cravind cooling? There's a heat pump for that
https://www.postindependent.com/opinion/columns/cleer-column-craving-cooling-theres-a-heat-pump-for-that/

8/20/2024
Aspen Daily News
Energizing Climate Solutions forum Thursday [brief]
https://www.aspendailynews.com/news/local-news-in-brief-aug-20/article_43cc2c30-5ed0-11ef-9dd8-f391303145a1.html

8/22/2024
Aspen Public Radio
CLEER's Energizing Climate Solutions summit brings ideas for green energy in rural communities to Aspen
https://www.aspenpublicradio.org/environment/2024-08-22/cleers-energizing-climate-solutions-summit-brings-ideas-for-green-energy-in-rural-communities-to-aspen

8/23/2024
Aspen Daily News
Rural workforce housing is a climate solution, panelists say
https://www.aspendailynews.com/news/rural-workforce-housing-is-a-climate-solution-panelists-say/article_88664534-611d-11ef-a586-8f81aead813f.html

8/25/2024
Philanthropy News Digest
Energizing Climate Solutions conference highlights issues facing resort communities like Aspen
https://philanthropynewsdigest.org/news/other-sources/article/?id=15280845&title=Energizing-Climate-Solutions-conference-highlights-issues-facing-resort-communities-like-Aspen

8/26/2024
Aspen Times
Energizing Climate Solutions conference highlights issues facing resort communities like Aspen
https://www.aspentimes.com/news/energizing-climate-solutions-conference-highlights-issues-facing-resort-communities-like-aspen/

8/28/2024
KVNF
Last week, Aspen played host to the Energizing Climate Solutions summit
https://www.kvnf.org/show/kvnf-regional-newscast/2024-08-28/kvnf-regional-newscast-august-28-2024

9/13/2024
Glenwood Springs Post Independent
You can't manage building energy use if you don't measure it
https://www.postindependent.com/opinion/garfield-clean-energy-column-you-cant-manage-building-energy-use-if-you-dont-measure-it/

10/1/2024
KMTS
KMTS Connections: Garfield Clean Energy Winter Wise Program
https://www.kmts.com/audio/kmts-connections-garfield-clean-energy-winter-wise-program

10/2/2024
Sopris Sun
WinterWise [Scuttlebutt item]
https://soprissun.com/scuttlebutt-calendar-38/

10/14/2024
Glenwood Springs Post Independent
Garfield Clean Energy's WinterWise campaign helps residents winterize their homes
https://www.postindependent.com/news/garfield-clean-energys-winterwise-campaign-helps-residents-winterize-their-homes/

11/11/2024
Glenwood Springs Post Independent
ReEnergize Garfield County helps the 'missing middle' lower energy bills
https://www.postindependent.com/news/reenergize-garfield-county-helps-the-missing-middle-lower-energy-bills/

11/13/2024
Glenwood Springs Post Independent
Commercial buildings represent big energy savings opportunities
https://www.postindependent.com/opinion/garfield-clean-energy-column-commercial-buildings-represent-big-energy-savings-opportunities/