

Garfield Clean Energy 1st Quarter 2014 Report

May 9, 2014 • Prepared by CLEER: Clean Energy Economy for the Region

1. Residential energy efficiency. Goal: 55 households making retrofits

Residential retrofits: 1	Measures: 2	Economic development
Rifle:	Insulation and air seal:	Total retrofit costs: \$12,960
Silt:	Furnace / boiler: 1	Utility rebates: \$
New Castle:	Water heater: 1	GCE rebates: \$
Glenwood Springs: 1	Windows:	Glenwood Springs rebate: \$590
Carbondale:	Swamp cooler:	Rebate multiplier: \$22
Parachute:	LED lighting:	
Total coaching clients: 26 Total emails/calls: 72	Est. savings: \$297/year	New rebate apps received Q1: 5

2. Residential Revolving Loan Fund

Total loans: 10, all current	Total amount loaned: \$90,258
New loans this quarter: 1	Current loan balance: \$86,926
Portfolio yield: 2.26%	Total available for loan: \$213,000

3. Commercial energy efficiency. Goal: 50 businesses making retrofits

Commercial retrofits: 4	Measures: 5	Total retrofit cost	GCE rebate
The Property Shop	High efficiency refrigerator	\$500	
The Crystal Company	Lighting retrofit	\$905	
Robo Chicken LLC	High efficiency boiler	\$10,186	
Good Shepherd Lutheran Church	New roof/ building insulation	\$6,624	
1st Quarter totals:		\$18,215	
Commercial walk-throughs: 5	Zip code / town	Date	
Roaring Fork Beer Company	81623 - Carbondale	2/4/2014	
Sunsense Solar	81623 - Carbondale	1/7/2014	
Artillum Dance Studio	81650 - Rifle	2/12/2014	
Lawrence Family Investments	81652 - Silt	2/14/2014	
U.S. Forest Service	81601 - Glenwood	2/19/2014	
New commercial enrollments received Q1: 9			

4. Clean energy services benefiting all partners

Garfield Energy Navigator

Partner buildings on Navigator: 99

50 with live data, including 3 new additions in Q1

Carbondale Public Works

Carbondale Roaring Fork Water Treatment Plant

Rifle Parks Maintenance

49 with monthly data

Navigator website usage, January 1 to March 31, 2014, according to Google Analytics

Total visits: 4,776	New visits: 4%
Unique visitors: 269	Returning visitors: 96%
Page views: 5,983	
Average time on site: 1.5 minutes	Tablet/smartphone visits: 34 / 0.6%

New feature: automated alert for out-of-range energy data, such as solar PV inverter failure, HVAC system failure, excessively high numbers. At present, the alert just goes to CLEER. The system will be configured to also add a facility manager to the alert list

Energy data analysis

- Analyzed bill data system in effort to bring down costs of manual bill entry by sub-contractor. Developed a system for CLEER staff to quickly delete bills from Garfield County's batch PDFs for accounts not being tracked on Navigator.

Training and workshops

- Organized, publicized and hosted Utility Rebate Workshop and Trade Show for area contractors working in construction, HVAC and efficiency. Co-hosted two events with CORE; only the Glenwood Springs event was billed to GCE. Event results:
 - Glenwood Springs workshop, Feb. 13: 65 attended, 5 industry co-sponsors, 13 trade show vendors
 - Basalt workshop, Feb. 20: 32 attended, 4 industry co-sponsors, 9 trade show vendors
 - Collected and updated contractor contact information in Salesforce database.
 - Promoted the Residential Revolving Loan Fund so contractors can explain that financing option to customers.
 - Positive feedback from vendors, utilities and contractors leads us to recommend the workshop and trade show model be repeated in 2015.

Garfield Clean Energy policies

- Developed an **Energy Savings Reinvestment** policy resolution for board consideration. After an in-depth discussion at the February 12 board meeting, the issue was tabled until May 2014.
- Developed an **Affiliate Member** concept memo and fee schedule. The concept was discussed at the February board meeting, with a request to develop a fee schedule for the March meeting. A fee schedule was included in the arch packet, but there was not enough time on the agenda to take up this topic.

State-level policies

- Created a page on the GCE website to track clean energy-related bills. Updated the page on a weekly basis, adding descriptions of new bills as they were introduced. As of March 31, the page

is tracking 21 bills related to economic development, financing, alternative fuel vehicles, renewable energy, utilities and active transportation.

- Success on DOLA rolling stock policy (see Transportation, CNG section, page 6).
- Worked to ensure Xcel Energy continues to be held to current energy efficiency goals; responded to requests from multiple groups around that state requesting Garfield Clean Energy’s assistance in voicing concern regarding the financial and economic impacts of pulling back on efficiency targets. Provided letter to PUC from Garfield Clean Energy Board; communicated with Xcel customers in Garfield County about Xcel’s request to lower energy efficiency targets.
- Provided ongoing information and assistance to legislator and legislative staff working to increase financing for energy efficiency for rural communities and address a gap in energy performance contracting financing for small communities. Provided data and examples to illustrate need, such as New Castle’s experience.

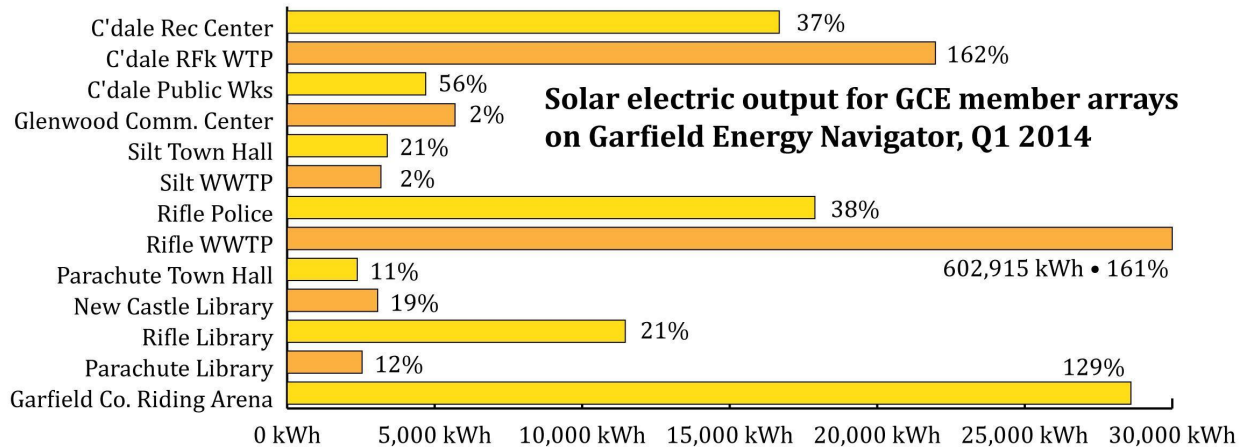
Rebate funding

- CLEER obtained a \$40,000 grant from the Colorado Department of Public Health and Environment’s Supplemental Environmental Program. This money will not flow through the GCE bank account, but will be used to benefit GCE constituents.
 - \$33,000 for energy efficiency bonus rebates for households and businesses in western Garfield County. This compliments the bonus rebates offered by CORE in the Roaring Fork Valley and temporarily addresses the rebate inequity problem for western Garfield County.
 - \$4,000 for rebate marketing; \$3,000 for rebate and program administration.

Radon testing kits

- Served as a Carbondale-area distribution point for home radon testing kits for Garfield County Environmental Health. Distributed 17 kits to residents.

5. Renewable energy



- Conferred with Tom Baker regarding Xcel net metering changes and how it may affect New Castle Public Works solar PPA.

- Prepared media release for the Sopris Sun on Carbondale's solar array ribbon-cutting.
- Met with Shirley Moore of Grid Alternatives about project development and financing mechanisms for installing solar PV on low-income residential units in Garfield County.
- Arranged for Katharine Rushton of Sunsense Solar to present to the board on power purchase agreement (PPA) financing for local governments within Xcel Energy service territory, at March 12 board meeting.
- Organized, publicized and hosted the Solar Energy Finance Workshop for Local Governments and Special Districts, in collaboration with Sunsense Solar and Colorado Mountain College. Focus of workshop is on a narrow window of opportunity for power purchase agreement (PPA) financing for public-entity solar arrays in Xcel Energy service territory.

Event held April 7 at the Rifle Branch Library. Invited 116 contacts with local governments and special districts in Garfield and Mesa counties that are within Xcel territory. Workshop drew 18 people from eight organizations:

- Colorado River Fire Rescue and Grand Valley Fire District
- Towns of Parachute, Silt and New Castle
- Garfield School District Re-2
- Battlement Mesa Metro District
- White River National Forest

6. Active Energy Management services for partner buildings and facilities

All partners

Sent email to remind facility managers that it's time to turn off heat tape.

Garfield County

- Followed up with Ennovate/Ameresco regarding high energy usage at Garfield County Courthouse in Glenwood Springs, and to discuss possible future performance contracting projects.
- Sent AEM reports to Morgan Hill in response to concerns about temperatures reaching 102 degrees in certain offices at Garfield County Health & Human Services building.
- Reached out to county staff to restart Fairgrounds Riding Arena router.
- Advised county staff to restore temperature sensor operation at Sheriff's Office that was accidentally disconnected during camera installations.

Carbondale

- Reset Carbondale Mod Hoppers for better acquisition of radio signal data from the new solar PV systems installed at Public Works and the Water Plant.
- Visited Carbondale Public Works to analyze energy savings opportunities through monitoring and AEM, drafted memo and edited, and sent email to Larry Ballenger alerting him to report. Provided Ameresco with feedback on heating problems at building.
- Contacted Carbondale Rec Center to confirm there was no hardware outage at the Water Plant.
- Requested quote for a di-pole antenna upgrade from Obvius.
- Scheduled visit to Town Hall to verify that Economizers are working (actual visit occurred in April)
- Exchanged emails with Mark O'Meara answering questions about integrating water plant SCADA with data from Energy Navigator.

Glenwood Springs

- Checked up on the plan to convert the Red Mountain Water Treatment Plant from electric heat to natural gas heat, set up plant's datalogger IP address for Navigator.
- City is considering HVAC upgrades for City Hall to increase comfort; met with Ricky Smith (purchasing agent) and SGM to review completed efficiency upgrades and past list of recommended upgrades, prepared report for City Hall upgrade project.
- Conferred with Ricky on electric vehicle charging unit specs.
- Follow up call with Ricky Smith from prior meeting with recommendations for efficiency projects at City Hall.

New Castle

- No individual projects.

Silt

- Site visit to Silt water and wastewater treatment plants to discuss status of repairs related to manual operation of compressors. Repair strategy is to replace oxygen sensor or investigate alternate means of control. Consultations will continue.
- Site visit and walk-through at Silt Town Hall, follow-up email with recommendations and list of contractors/vendors to contact.

Rifle

- Met with installer SOL Energy about Navigator setup at the Rifle Police Station and followed up on configuration of Rifle sites.
- Created installation documentation for new Rifle solar monitoring equipment, delivered monitoring equipment to SOL Energy, coordinated delivery of solar monitoring equipment to Rifle Parks Maintenance Facility, and performed on-site setup for monitoring at Rifle Police Station.
- Discussed ways for Rifle to market its net-zero for electricity building status with Nathan Lindquist, city planner.
- Follow-up emails with recommended efficiency measures.

Parachute

- Gathered, updated and sent 2013 AEM documents to Stuart McArthur, town administrator, for orientation to AEM services and projects.

RFTA

- No individual projects.

Garfield Public Library District

- Followed up with Jerry Morris regarding memo provided with cost estimate for installing Navigator at Silt Library.
- Discussed Jerry's requests for tracking renewable energy at libraries.
- Updated New Castle's kiosk site landing page to go directly to that facility.

Colorado Mountain College

- Coaching on electric vehicle charging grant application regarding installation logistics and lifecycle impact related to coal-powered electricity.
- Researched live data issues related to CMC buildings on the Alerton System and drafted follow-up memo.
- Met with Phil Meadowcroft about CMC building plans and residential campus competitions, drafted CMC competition memo.

- Set up and conducted walk-through of Spring Valley residence hall with Phil Meadowcroft, wrote follow-up report, reviewed unusual gas usage at Spring Valley campus.
- Developed spring break shutdown checklist, worked with Phil to diagnose and fix live data problems at Sopris Residence Hall prior to shutdown.
- Sent CMC energy savings data to Ameresco.

7. Transportation

CNG efforts

- Supported monthly West Slope CNG Collaborative conference calls. Sought out at a keynote presenter for each meeting on a current and relevant topic, sent e-blasts to expanding invitation list, hosted the conference call, wrote up detailed meeting notes and posted agendas and meeting notes to the GCE website.
- Informed network members about \$30 million in federal grant funding awarded to state of Colorado for CNG stations statewide and vehicles in the Front Range area. Urged network members to prepare for grant application period this spring.
- Wrote grant application to the Garfield County Federal Mineral Lease District seeking \$25,000 to fund the Western Slope CNG Collaborative line item in the 2014 budget. The GCE board approved the application at the Feb. 12 meeting, and the grant was submitted for the Feb. 28 deadline. The application was successful. Garfield FMLD announced the grant award on April 18.
- Received official notification that Colorado Department of Local Affairs has amended its rolling stock policy to allow grant applications from local governments to cover the buy-down costs of alternative fuel vehicles.
- Prepared a CNG vehicles pledge letter for GCE member governments to sign. Advised members to enroll in free energy coaching in order to make an informed pledge.
- Participated in statewide CNG vehicle coalition calls to stay informed about 2014 projects and outreach.
- Consulted with RFTA staff about fuel management software concerns. RFTA will be unable to sell CNG fuel to other governments until mid-year at the earliest. Also consulted with RFTA staff about CNG engine recall to resolve manifold air pressure sensor icing problem.
- Conferred with Trillium CNG about interest in a Carbondale station and provided info on natural gas supply lines near the Roaring Fork Co-op. Also conferred on prospects for Glenwood Springs fueling station, and efforts needed to obtain sufficient fuel purchase pledges.
- Considered how to deal with electric demand charges that are offsetting sales revenue at the Rifle CNG station. Wrote memo for state legislators regarding utility rates for CNG stations and communicated to Tom Jankovsky and Kirk Swallow about the proposal. Communicated with Colorado-Wyoming Petroleum Marketers Association regarding this issue. The association was actively pursuing a solution, so we deferred to their efforts.
- Assisted Morgan Hill with evaluating fleet opportunities at Garfield County.
- Wrote memo to West Slope COGA on value of CNG vehicles being on display at auto dealerships.
- Responded to a call from a citizen with questions about using natural gas engines on well pads.

Electric vehicles

- Finalized a report on cost of free car charging at the electric vehicle charging station (EVSE) at Carbondale Town Hall.
- Assisted City of Rifle and Town of Parachute with EVSE grant applications.
- Gathered contact info about EVSE installation contractors and created new “contractor locator” page on GCE website for this specialty.
- Met with Kristen Carlson from CMC for interview on article for CMC newsletter on EVSE charging and the role of GCE and CLEER in grant application process and technical details.

Active transportation

- Organized and publicized the annual Bike and Walk to School Challenge to be held April 15-17 in all three districts. Raised funds for prize money, created 2014 poster and classroom tally sheets, recruited nine schools to participate and coordinated with lead teacher at each school.

8. Publicity, marketing and website

Case studies: 2 in 1st Quarter

- Residential: [Pink Palace](#), multi-family apartment house in Glenwood Springs
- Commercial: [Professional Auto Body](#)

Community outreach

- None, other than Utility Rebate Workshop and Trade Show events.

Advertising placed

- None in the 1st Quarter.

1st Quarter earned media: 8 articles, 1 editorial, 3 briefs

Media outlets	Article topics
Sopris Sun: 1 story, 1 brief	C'dale solar array ribbon-cutting; contractor workshops
Post Independent: 2 stories, 1 brief	Harvey to chair GCE board; Pink Palace case study; contractor workshops
Aspen Daily News: 1 brief	Contractor workshops
Grand Junction Business Times: 1 story	Refuel effort in Mesa County
KREX TV: 1 story	Refuel effort in Mesa County
KJCT TV: 1 story	Refuel effort in Mesa County
The Daily Sentinel: 1 story, 1 editorial	Refuel effort in Mesa County
CMC Leadville's The Marmot: 1 story	Energy Navigator on Leadville campus

For headlines, dates and links, visit www.GarfieldCleanEnergy.org and click on the newsboy image.

Website usage, January 1 to March 31, 2014, according to Google Analytics

Total visits: 5,759	Top 5 pages (based on unique-user page views)
Unique visitors: 4,920	Residential heat tape: 46%
Tablet/smartphone visits: 1,644 / 28%	Home page: 11%
Page views: 8,764	Electric vehicles: 4%
New visits: 84%	Residential rebates landing page: 2%
Returning visitors: 16%	Residential audits: 2%

9. Administration

Ongoing coordination, management of all services, programs

- Organized and prepared materials for January, February and March GCE board meetings.

2013 Audit

- Initiated process for McMahan & Associates to conduct audit of 2013 books. In collaboration with GCE bookkeeper Janet Obeji, responded to auditor's requests for documents and explanations for budget changes through the year. Audit was finished and presented to the board at the March 12 meeting. Auditor Dan Cudahy issued a clean opinion on the 2013 books. Mr. Cudahy submitted the audit report to the Colorado State Auditor's Office on March 18, and it was accepted on March 19.
- On the advice of the auditor, created an Amended 2013 Budget, published legal notice, prepared a resolution for approval by the board and worked with GCE legal counsel to submit the amended budget to Colorado Division of Local Government.
- On the advice of the auditor, implemented two accountability measures: detailed invoices provided by CLEER, implemented March 2014, and a banking review checklist for a Finance Committee member to carry out each month, implemented April 2014.

Strategic Planning

- Set April 9 date for annual Strategic Planning retreat for the board; participated in advance meeting on March 6 with Tom Baker, Allyn Harvey and Keith Lambert to discuss goals and agenda for the retreat. Worked with Tom to develop retreat agenda.

10. Credit Reserve

Reporting to DOE and Boulder County

- Confirmed with Boulder numbers for final DOE report, exchanged emails with Boulder County staff regarding 2013 Q4 report, and completed 2013 Q4 report for residential loan fund activity.
- Contacted Funding Partners to clarify loan questions, and informed contractors about loan fund availability and how to connect customers to the program.
- Exchanged emails with Boulder County staff relating to questions about Garfield County participants for DOE's Impact Evaluation of the Better Buildings Grant. This is an evaluation in which participants are randomly selected for interviews and site visits of completed projects.
- Prepared report info and attended a March 5 check-in call with DOE to give updates on loan, rebates and outreach programs.
- Prepared report on Revolving Loan Fund for GCE board.

Marketing of Residential Revolving Loan Fund

- Obtained a revised loan form from Funding Partners and uploaded document to GCE website.