



Town of Parachute | City of Rifle | Town of Silt
Town of New Castle | City of Glenwood Springs
Town of Carbondale | Garfield County
Roaring Fork Transportation Authority
Colorado Mountain College

Managed by CLEER: Clean Energy Economy for the Region / (970) 704-9200 / P.O. Box 428, Carbondale, Colorado 81623

Memo to: Mayor Riddile and the New Castle Town Council
From: Garfield Clean Energy Collaborative Board
Date: October 27, 2016
Re: **Garfield Clean Energy Update; 2017 planning and budget request**

Thank you, Town of New Castle elected officials and staff, for your ongoing participation in the Garfield Clean Energy Collaborative. The Town of New Castle was an essential founding partner of GCE, and the Town's leadership on clean energy for economic development is a key component of countywide success to date. Through joining together county-wide, Garfield Clean Energy has created measureable economic and energy improvements for member communities, governments, businesses and households, and is playing an important role in diversifying our regional economy.

To prepare for 2017, GCE board members are visiting each other's councils and boards. GCE Board members and CLEER staff will plan to attend your November 1 council meeting to report on GCE progress, share plans for 2017, and request continued financial participation in GCE for 2017.

Attached to this memo you'll find a summary of residential and commercial energy efficiency results from 2010 through Sept. 2016 in New Castle. We've also included the 2015 year-end report for all of the work accomplished county-wide.

In addition to the results reported on the attachments, here are several highlights from ongoing projects and programs:

Xcel Partners in Energy energy planning process- opportunity to create energy efficiency incentives for New Castle businesses and households

Garfield Clean Energy was selected this year to participate in Xcel Energy Partners in Energy program to create a more detailed county-wide energy efficiency and renewable energy plan along with an 18 month implementation period that will be assisted by Xcel Energy. The plan will build on the energy efficiency and renewable energy programs already offered by GCE and partner utilities. New Castle elected officials and staff time involved in this effort to date and use of the New Castle Community Center is greatly appreciated.

This is a great opportunity to work closely with Xcel Energy, all the utilities that serve Garfield County, and additional groups across the county to establish long-term goals, strategies to meet the goals, identify and implement policy changes and develop additional

funding sources to help homes and businesses save energy. 28 stakeholders from across the county have attended the first two stakeholder meetings.

Currently, Garfield County residents who live in Carbondale or Glenwood Springs have access to a higher level of financial incentives for energy efficiency and renewable energy due to the rebate programs offered by utilities, governments and nonprofits operating within those geographic boundaries. The Xcel Energy Planning process may be a way that Town of New Castle could increase the availability of energy efficiency and renewable energy incentives available to serve New Castle businesses and households.

Statewide effort to build outside funding sources for Garfield Clean Energy

Programs:

The GCE Board of Directors identified developing longer term funding sources for GCE programs as an important goal, and has been working on several fronts on this topic to supplement local funding. Garfield Clean Energy hosted a very successful tour of GCE results for Fiona Arnold, Director of OEDIT, Meredith Marshal, Regional Economic Manager for OEDIT and State Representative Bob Rankin. The county tour culminated with a lunch in Rifle where local contractors and leaders engaged with OEDIT staff at the brief lunch. OEDIT staff and Bob Rankin were both extremely impressed with the economic development aspects of Garfield Clean Energy and a follow up meeting in Denver has been scheduled to discuss next steps.

This visit is part of GCE's ongoing efforts to create state funding to help continue Garfield Clean Energy programs and services and to accelerate results.

Support for New Castle Climate Action Committee

GCE/CLEER staff met with the New Castle Climate Action Committee and provided information on ways the committee can work with GCE home and business energy efficiency efforts to help increase energy savings in New Castle.

Local Power project:

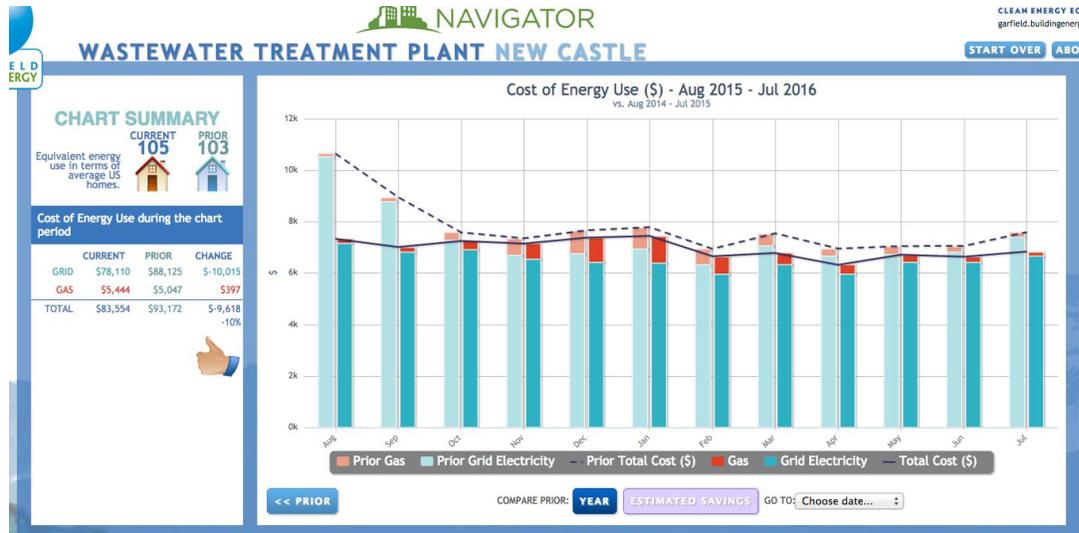
The Garfield Clean Energy Board identified local/regional power generation from multiple renewable and unique sources available in Garfield County as a top priority in the 2016 strategic plan. These sources include coal mine methane, coal seam, micro-hydro, geothermal, solar thermal and photovoltaics. In addition, a joint meeting between GCE and CORE board identified creating a regional renewables implementation plan as a promising joint topic for our entire region to work together on. A regional workshop is being developed for early January to increase decision makers' understanding of potential energy sources, increase knowledge of studies and work done to date on the wide range of potential local power sources, create a common baseline of knowledge among the multiple partners needed for success, and identify near term priorities for making progress. This project will build off of existing multiple studies that have been completed.

Government Buildings:

Garfield Clean Energy tracks energy use data for all the GCE partners on the Garfield Building Energy Navigator.

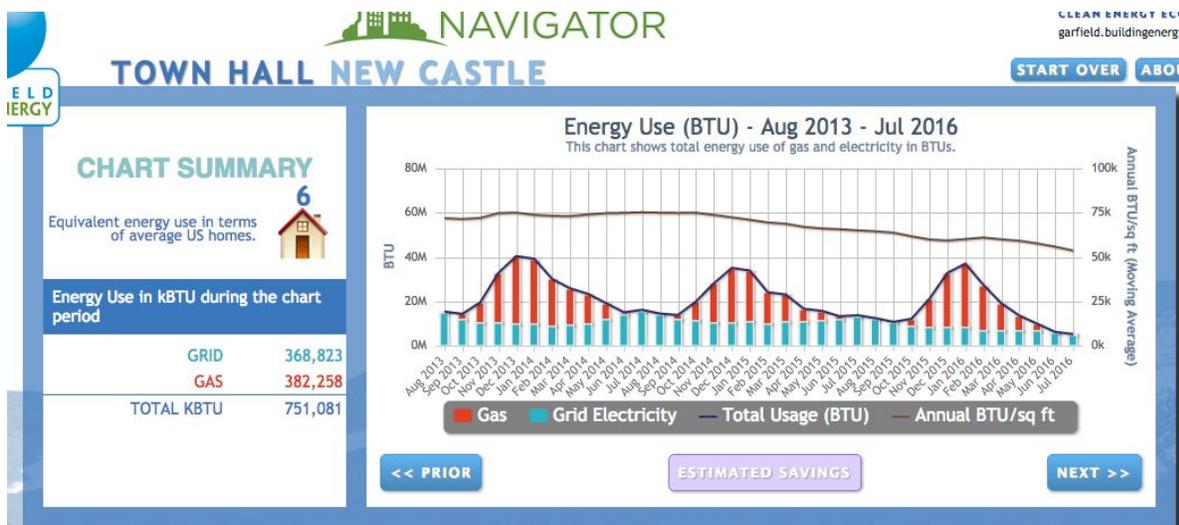
Wastewater Treatment Plant

New Castle staff have continued to dial in the operations at the Wastewater Treatment Plant, saving \$10,000 in energy costs over the last 12 months compared to the prior 12 months.



Town Hall

The image below shows that the Town Hall building has been lowering the kbtu/sqft over the years. This shows a decrease from 75 kbtu/sqft in December 2013 down to 59 kbtu/sqft in December 2013 (see the gray trend line).



CARE income qualified program to date in 2016: Three income-qualified households in New Castle received weatherization, lighting and heating system upgrades valued at \$12,344.52. Annual energy savings are estimated at \$3,138. One more household is expected to have work completed by the end of the year.

Countywide, the CARE Program leveraged \$223,490 in funding from Xcel Energy, Holy Cross Energy, SourceGas and Energy Outreach Colorado to deliver free energy upgrades

and help families lower their utility bills. While significant funding has been leveraged from the utilities, these funds are only available when local programs exist to implement the projects.

Ride Garfield County: This annual event brought attention to bicycling and bus riding across the county, with community events and an online Team Challenge. For 2016, we made it a summer long event, culminating in September. Of the 205 registered riders, 7 were from New Castle. The New Castle Police Department hosted a bicycle rodeo for kids in June and participants of the annual Tour de Farms biked around New Castle learning about local farms and businesses in August.

EV Bulk Purchase program: GCE, through Refuel Colorado and CLEER, has started the process of reaching out to multiple regional partners to initiate a bulk purchase program which offers residents a limited time offer to purchase EV vehicles at a reduced cost from MSRP. Garfield Clean Energy staff are developing partnerships with Glenwood Springs auto dealerships as well as regional partners on this project. Dealers in Boulder/Denver region who have participated in this kind of promotion have experienced large increase in sales volume. This project is being planned for release in the first quarter 2017. Planning and partnership development is occurring this fall.

To continue this track record of regional collaboration and success, GCE is requesting that its nine member governments include funding for the Garfield Clean Energy Collaborative in their 2017 budgets. The draft GCE 2017 budget is attached.

GCE is asking GCE members to include funding at the same amounts for 2017, for New Castle this amount is \$17,000



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Economic and Energy Benefits for Households and Businesses in New Castle

Residential energy efficiency summary	2010 - 2016
Home energy assessments	25
Energy efficiency retrofits completed, by household	89
CARE Program participants (income-qualified)	8, incl. 4 seniors
Total retrofit project investments, incl. Home Energy Program	\$168,344
Estimated total annual energy savings	\$15,323
Residential Revolving Loan Fund borrowers	3
Coaching calls and emails	76

Commercial energy efficiency summary	2010 - 2016
Energy efficiency retrofits completed, by site	7
Total retrofit project investments	\$400,321
Estimated annual energy savings	\$18,795

New Castle contractors doing energy efficiency work

All Current Systems Inc.
 Always On Electric
 Anders Maintenance & Repair
 Ajax Mechanical
 Brad's Electrical Service
 Colorado Carpentry, Inc.
 Comfort Air Co.
 Mr. T's Hardware and Building Supply Inc.
 Pursley Construction, Inc.
 Tradesman Electrical Services, Inc.

U.S. Boiler & Plumbing Co.
 Vro Electric, LLC

New Castle businesses benefitting from energy efficiency retrofits

Dwyer Greens & Flowers
 Elmer Suds Liquor Mart
 K2 Spirits
 Mr. T's Hardware and Building Supply Inc.
 New Castle Veterinary Clinic
 Osage Gardens
 Pepsi Cola



Garfield Clean Energy 2015 Report

March 2, 2016 • Prepared by CLEER
(970) 704-9200 • www.GarfieldCleanEnergy.org

Residential Loan Fund	2012	2013	2014	2015
Loans each year	1	7	14	15
Cumulative total loans	1	8	22	37
Average loan amount	\$7,125	\$6,670	\$9,658	\$10,423
Amount loaned each year	\$7,125	\$46,691	\$135,213	\$156,349
Cumulative total loans	\$7,125	\$53,816	\$189,029	\$345,378
As of Dec. 31, 2015				
Principal & interest repaid to date	\$88,363	Portfolio balance		\$247,820
Portfolio yield	2.289%	Available loan pool		\$47,180



2015 Residential activity	
Residential retrofits completed	146 homes
Total retrofit project costs	\$450,773
Estimated annual energy savings	\$70,171
Coaching clients	205
E-mails/calls	468

Left, Lavelle and Chuck Bottineau of Battlement Mesa, 2015 Home Energy Program participants.

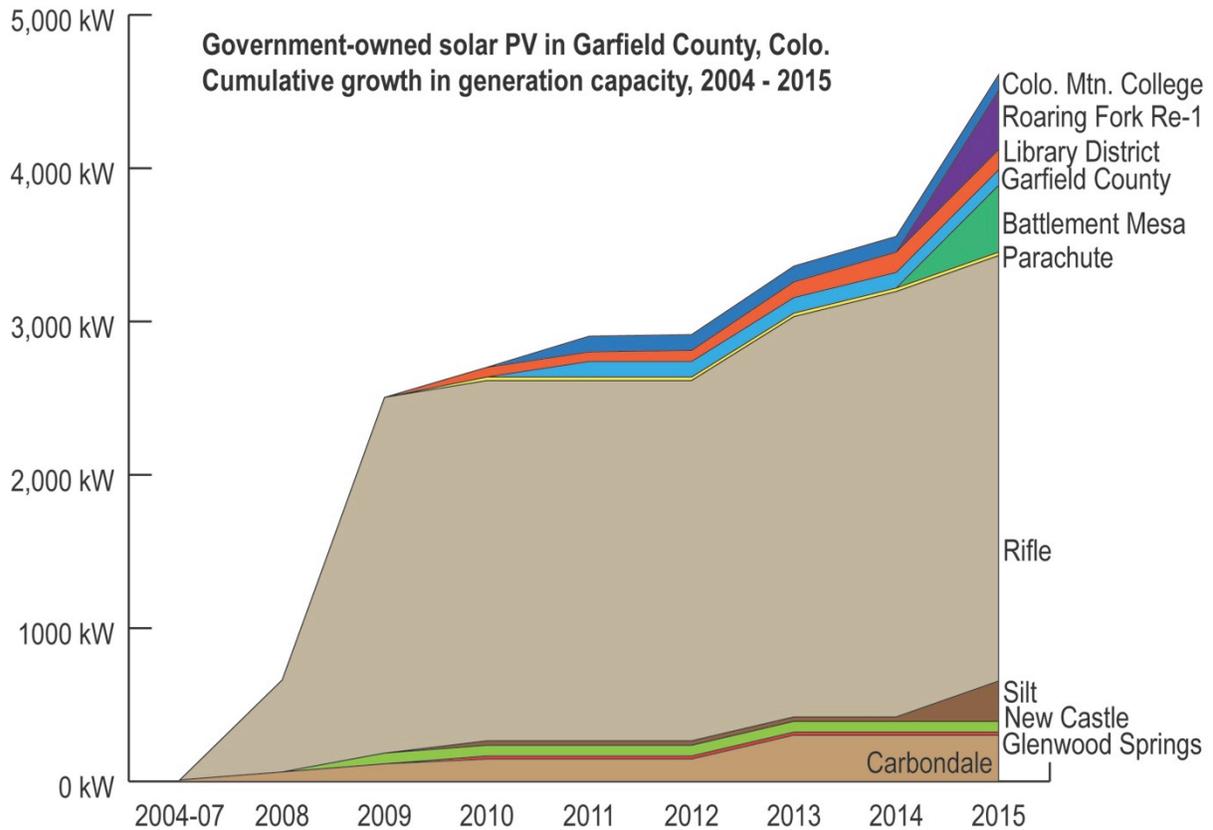
2015 Home Energy Program (for income-qualified families)	Total calls	Quali-fied	Home visits	Upgrades complete
Parachute / Battlement	18	12	5	5
Rifle	18	11	9	9
Rifle Creek Apartments *	0	94	0	94
Silt	8	5	4	4
New Castle	13	6	6	6
Glenwood Springs	28	13	12	12
Carbondale	31	21	18	18
Countywide total	116	162	54	148

Home Energy Program upgrades: High efficiency furnaces, boilers, hot water heaters and evaporative coolers, windows, insulation, air sealing, LEDs, programmable thermostats, Energy Star fridges.

* Rifle Creek Apartments project: insulation and air sealing only.

Commercial activity summary			
Commercial retrofits completed, by site	28	Coaching clients	106
Total retrofit project costs	\$549,973	Emails/calls	229
Estimated annual energy savings	\$143,188	Energy Coach building walk-throughs	24
		Walk-throughs resulting in projects	100%

Renewable Energy	Electrical capacity	Project status
Silt Water Treatment Plant	234 kW	Completed January 2015
Battlement Mesa Metro District	436 kW	Completed September 2015
Roaring Fork High School	385 kW	Completed December 2015
Combined value	1,055 kW	\$2.3 million total, \$1 million local



Western Slope CNG Network 2015 activity	
Parachute station	Continued coaching for prospective fleet customers
Rifle station	Alt Fuels Colo grant awarded; opening slated for Q3 2016
Glenwood Springs station	Grand opening Nov. 6, 2015
Network conference calls	Jan. 15, Feb. 12, March 12, April 9, May 14
Network newsletters	Aug. 13, Sept. 10, Oct. 30, Dec. 15
Educational presentations	Energy Advisory Board, Glenwood Springs Lions, Sunset Rotary
CNG-specific media hits	14

2015 Economic Activity	
Residential upgrade projects	\$450,773
Commercial upgrade projects	\$549,973
2015 Home Energy Program upgrades	\$301,000
2015 solar arrays	\$1,000,000
Glenwood Springs CNG station	\$1,200,000
Total	\$3,201,000

Active Energy Management for Garfield County

Energy meeting with staff: May 14, 2015

- Provided energy efficient building recommendations for new Rifle admin building.
- Worked with staff to enroll Rifle admin in Xcel Energy's Custom Efficiency Program for New Buildings.
- Started work with county staff on Riding Arena winterizing concept.

Websites	Building Energy Navigator	Garfield Clean Energy
Total visits	11,286	22,097
Unique visitors	1,582	18,628
New visits % / returning visits %	14 / 86	83 / 17%
Tablet/smartphone visits	79 / 0.7%	6,956 / 31%
Page views	12,825	32,265
Average time on site	4 min.	2 min

Garfield Clean Energy events and trainings 2015

Event name	Date	Location	Participants	Media hits
Solar array ribbon-cutting	Jan. 22	Silt	20	3
Energy Smart Contractor Expo	April 2	Glenwood Springs	210	2
Regional Roundtable	April 2	Glenwood Springs	29	0
Ride Garfield County	June 19-26	Countywide	106	4
EV Ride & Drive	Sept. 17	Rifle	26	3
CNG Grand Opening	Nov. 6	Glenwood Springs	45	5
WWTP Operators Roundtable	Nov. 17	New Castle	9	0
Solar array ribbon-cutting	Nov. 19	Battlement Mesa	16	4
Facility Manager Tour & Roundtable	Dec. 8	Basalt	20	0
Totals			481	21

Media coverage, education, outreach

Media coverage	46
Education (Hot Tips, fact sheets, articles)	5
Outreach events	9



Town of Silt water treatment plant solar array ribbon-cutting, Jan. 22



Battlement Mesa Metro District solar array ribbon-cutting, Nov. 19



Glenwood Springs Trillium CNG station grand opening, Nov. 6



Ride Garfield County, Holy Cross Energy team



2015 Contractor Expo, April 2



Rifle Electric Vehicle Ride & Drive, Sept. 17



2015 Home Energy Program



Rifle Creek Apartments

Garfield Clean Energy Collaborative 2017 Budget

1st Draft - July 8, 2016

Acct No.		2015 Budget	2015 Amended	2015 Actual	2016 Budget	2017 Budget
INCOME						
	Beginning fund balance	\$12,740	\$12,740	\$12,739	\$15,130	\$15,000
						* low est.
3000	Partnership Funding					
3100	Garfield County	\$180,000	\$180,000	\$180,000	\$150,000	\$150,000
3200	Parachute	\$2,500	\$2,500	\$2,500	\$1,500	\$1,500
3300	Rifle	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000
3400	Silt	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000
3500	New Castle	\$15,500	\$15,500	\$15,500	\$17,500	\$17,500
3600	Glenwood Springs	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000
3700	Carbondale	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
4100	Library District	\$10	\$10	\$10	\$0	\$0
4200	RFTA	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
5100	Colorado Mountain College	\$30,000	\$30,000	\$30,000	\$35,000	\$35,000
	Partnership Funding subtotal	\$329,010	\$329,010	\$329,010	\$305,000	\$305,000
Contributions from others						
	Community Partners	\$0	\$0	\$0	\$0	\$0
	Grants	\$0	\$0	\$0	\$19,000	\$0
	Sponsorships & Contributions	\$0	\$3,890	\$3,890	\$0	\$0
	Contributions from others subtotal	\$0	\$3,890	\$3,890	\$19,000	\$0
	TOTAL INCOME	\$329,010	\$332,900	\$332,900	\$324,000	\$305,000
EXPENSES						
	Energy Efficiency for Economic Development Program					
10000	Commercial sector					
11000	Energy Consulting	\$43,000	\$38,000	\$34,596	\$43,000	\$40,000
12000	Outreach, Education, Training, Website	\$12,000	\$12,000	\$9,364	\$15,000	\$15,000
	Commercial subtotal	\$55,000	\$50,000	\$43,960	\$58,000	\$55,000
20000	Residential sector					

Garfield Clean Energy Collaborative 2017 Budget

1st Draft - July 8, 2016

Acct No.		2015 Budget	2015 Amended	2015 Actual	2016 Budget	2017 Budget
21000	Energy Consulting	\$42,000	\$47,000	\$49,943	\$27,000	\$40,000
21100	Energy Consulting - Home Energy Program				\$20,000	\$12,000
22000	Outreach, Education, Training, Website	\$10,010	\$10,010	\$8,061	\$12,000	\$12,000
22100	CEO Green MLS				\$19,000	\$0
	Residential subtotal	\$52,010	\$57,010	\$58,003	\$78,000	\$64,000
	Energy Efficiency subtotal	\$107,010	\$107,010	\$101,963	\$136,000	\$119,000
30000	Petroleum Independence Project / Transportation					
31000	Active Transportation & Transit	\$15,000	\$17,000	\$17,000	\$15,000	\$15,000
32200	Efficient Vehicles & Alternative Fuels	\$9,000	\$9,000	\$7,834	\$5,000	\$5,000
33100	WS CNG Network	\$25,000	\$24,000	\$22,867	\$5,000	\$5,000
	Petroleum Independence / Transportation subtotal	\$49,000	\$50,000	\$47,701	\$25,000	\$25,000
40000	Renewable Energy					
41000	Technical Assistance & Education	\$12,000	\$12,000	\$11,524	\$12,000	\$10,000
	Renewable Energy subtotal	\$12,000	\$12,000	\$11,524	\$12,000	\$10,000
	<i>Continued next page</i>					
Acct No.		2105 budget	2015 amended	2015 Actual	2016 Budget	2017 Budget
50000	Energy Efficiency for GCE Member Governments					
51000	Energy Data Mgt / Bldg. Energy Navigator Ops	\$35,000	\$35,000	\$24,913	\$25,000	\$25,000
52000	Active Energy Management Coaching	\$35,000	\$35,000	\$33,031	\$30,000	\$30,000
	Energy Efficiency for GCE Members subtotal	\$70,000	\$70,000	\$57,944	\$55,000	\$55,000
60000	Special Projects					
61000	Energy Inventory	\$11,300	\$11,300	\$8,470	\$4,500	\$0
61100	Goal 4 Implementation	\$0	\$0	\$0	\$10,000	\$10,000

Garfield Clean Energy Collaborative 2017 Budget

1st Draft - July 8, 2016

Acct No.		2015 Budget	2015 Amended	2015 Actual	2016 Budget	2017 Budget
61200	Develop local energy resources	\$0	\$0	\$0	\$10,000	\$8,000
	Special Projects subtotal	\$11,300	\$11,300	\$8,470	\$24,500	\$18,000
90000	GCE Partnership Services					
91000	Project Management, Reporting, Strategic Planning, Meetings, Budgeting, Policy	\$62,000	\$63,000	\$62,999	\$63,000	\$63,000
92000	Legal Services	\$2,300	\$2,300	\$1,533	\$3,000	\$3,000
93000	Accounting / Bookkeeping	\$6,500	\$6,500	\$6,754	\$7,000	\$7,000
91000.1	Audit / Financial review	\$4,300	\$4,300	\$4,300	\$4,500	\$4,550
91000.2	CIRSA Liability Insurance	\$2,100	\$2,100	\$2,050	\$2,100	\$2,100
95000	Contingency	\$0	\$0	\$0	\$3,000	\$3,000
	GCE Partnership Services subtotal	\$77,200	\$78,200	\$77,636	\$82,600	\$82,650
1001	Credit Reserve Fund expenses	\$2,000	\$2,000	\$1,986	\$1,500	\$1,000
	TOTAL EXPENSES	\$328,510	\$330,510	\$307,224	\$336,600	\$310,650
	Ending fund balance	\$13,240	\$15,130	\$38,415	\$2,530	\$9,350