

## **Garfield Clean Energy Collaborative Board Retreat**

1:20 – 5:00 p.m. Wednesday, May 8, 2013

Glenwood Springs City Hall, 101 W. 8<sup>th</sup> St.

*(or starting as soon as regular GCE business meeting concludes)*

Facilitator: Gary Suiter, Suiter & Associates, Carbondale, Colorado

1. Workshop goals and desired outcomes
2. Celebrate Garfield Clean Energy results to date
3. Briefly review GCE vision, mission and goals  
(contained in 2012 Strategic Plan, sent in advance)
4. Next steps on realizing GCE goals
  - a) Tools for accelerating GCE progress. What is working in other places?
  - b) Brainstorm new ideas.
  - c) Assess and select mechanisms that would work best for Garfield Clean Energy and Colorado.
  - d) Set 2014-2015 two-year goals. What will it take to be successful?
  - e) Identify specific action steps to achieve the two-year goals.
  - f) Review two-year goals in relation to 2020 targets.
5. Next steps: Set timeline; assign roles

### Reference documents:

- Garfield Clean Energy Highlights to date: January 2009 to May 2013
- GCE 2012 Strategic Plan
- GCE 2013 budget
- Financing Strategies Roundup



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

## Highlights to date: January 2009 to May 2013

### **Economic and energy benefits**

- 140 commercial businesses, 225 homes and 55 government buildings saving energy
- Cumulative cost savings: more than \$2.2 million
- Vibrant local market for clean energy and energy efficiency businesses: more than 140 firms engaged
- Garfield County Energy Inventory 2009: researched and reported county-wide use of electricity, natural gas and transportation fuels for 2009, calculated direct and indirect economic benefits of a 20% reduction in energy use by 2020.
- Emissions reduction of more than 14,000 metric tons of CO<sub>2</sub>, equal to energy used by 1,400 average U.S. homes.

### **Residential and commercial energy efficiency**

- Garfield Clean Energy Challenge for Homes and Businesses created: a one-stop service for information, assistance, rebates, financing.
- 145 businesses and 423 households have signed up
- 140 commercial properties and 225 homes have actually received energy improvements
- Total savings from residential and commercial services: \$200,000 per year

### **Government buildings:**

- Garfield Energy Navigator created: web-based tracking of energy performance 90-plus government buildings (will jump to 130-plus as buildings throughout the CMC district come online); 45 buildings have live energy monitoring, 16 of these have live solar output monitoring
- Energy improvements made on 55 buildings; including Energy Performance Contracts on 16 buildings
- Active Energy Management program specifically targets no-cost and low-cost savings opportunities.
- Annual savings in GCE government buildings: \$237,000

### **Renewables:**

- 27 on-site solar arrays on public buildings, including 2 projects (New Castle and Garfield Riding Arena) made much larger by use of Power Purchase Agreements.
- 23 smaller systems on private property

### **Transportation**

- Fleet efficiency and alternative fuel consultations with partner governments

- Western Slope CNG Collaborative: successes include CNG fueling station in Rifle, efforts to spread CNG fueling infrastructure along I-70 corridor; RFP issued for Glenwood Springs station, with \$100,000 incentive
- RFTA conversion to 22 CNG buses, with \$365,000 support grant from Encana and multi-million in QECB loan via Colorado Energy Office.
- RFTA makes new BRT park-and-rides ready for installation of EV charging stations.
- 4 years of county-wide Bike & Walk to School Challenge
- Workshop hosted to explore economic development benefits of bike/ped trails; resulted in regional trail map for tourism, transport and health
- County's first public Level 2 EV charging station coming to Carbondale Town Hall.

### **Financing:**

- Creation of revolving loan fund for residential energy upgrades, in partnership with the lender Funding Partners LLC.
- Creation of Garfield Clean Energy Credit Reserve Fund to provide a loan-loss reserve to encourage local banks to lend for energy upgrades and renewables, administered by Colorado Housing Finance Authority. Alpine Bank is the only participating local lender at present; Elevations Credit Union in Boulder is using a similar Denver-Boulder Credit Reserve Fund with more success.
- CLEER is talking with Elevations and the Colorado Energy Office to expand that program statewide.

### **Establishment of enduring structure and policies**

- Formation of Garfield Clean Energy Collaborative, the state's first clean energy authority, using a multi-government structure.
- Energy reduction targets established and adopted by member boards
- Consultation with partner governments leads to adoption or upgrades of Energy Efficiency Building Codes

### **Education and training**

- Hosted 2 fleets workshops, 2010 and 2012.
- Hosted 5 facility manager workshops for public and private sector
- Hosted 3 trainings for building contractors and home energy auditors
- Co-hosted 3 grant-writing workshops for ag producers on USDA renewable energy grants program
- Tabling at dozens of community events from Parachute to Carbondale; giveaway of more than 16,000 CFL light bulbs

### **How Garfield Clean Energy got started**

- CLEER wrote a grant application in 2008 for a Colorado Department of Local Affairs New Energy Communities Initiative, 9 government partners joined in with matching funds and unanimous political support for the grant.
- Basic concept: By joining together, local governments can gain access to energy efficiency services benefitting public and private sector, creating measureable environmental and economic development results
- Funding supplemented by U.S. Department of Energy Better Buildings Grant, additional Colorado Energy Office grants, and ongoing general fund support from local government partners.

# ***Garfield Clean Energy***

## **Strategic Plan**

**December 2012**

## **INTRODUCTION**

---

Garfield Clean Energy Collaborative became an intergovernmental authority in late 2011 after operating as a committee of Garfield County for 2 years.

To date Garfield Clean Energy has achieved the following summary results:

Annual cost savings: more than \$1.8 Million in savings

Participants to date:

Over 84 government buildings saving energy

20 new on-site solar systems on public buildings

109 commercial businesses saving energy, and 289 homes

Emissions reduction:

11,222 metric tons of CO<sub>2</sub> per year = the energy used in over 1,400 average US homes worth of energy use, 61 railcars of coal per year.

The Garfield Clean Energy Board met to refine GCE mission statement and goals, and develop a vision statement in June 2012.

## **VISION, MISSION, AND GOALS**

---

### ***Garfield Clean Energy Vision Statement***

Garfield County will be the most energy efficient county in the country.

### ***Garfield Clean Energy Mission Statement***

The mission of Garfield Clean Energy Collaborative is to provide energy efficiency solutions, education and alternative and renewable energy opportunities to all individuals and organizations in order to build a stronger, more resilient economy benefiting citizens of Garfield County.

### ***Garfield Clean Energy Goals***

**Goal #1: Increase per capita energy efficiency by 20% by 2020 over a 2009 baseline to have a stronger, more resilient and energy-secure economy.**

**Goal #2: Reduce petroleum consumption 25% by 2020, over a baseline 2009, as a means to a stronger, more resilient and energy-secure economy.**

**Goal # 3: Obtain 35% of our energy from renewable sources by 2020 as a means to a stronger, more resilient and more energy-secure economy.**

## ***Garfield Clean Energy Goals and Actions 2013***

**Goal #1: Increase per capita energy efficiency by 20% by 2020 over a 2009 baseline to have a stronger, more resilient and energy-secure economy.**

### **A: Increase the energy performance of public buildings**

- Increase energy savings in all GCE partner participating buildings by at least 10% over 2012 savings.
- Create a culture of saving energy/cutting emissions within all government buildings.
- Improve and fully utilize energy tracking and feedback to drive maximum savings.
- Create a reward system for employees to be actively engaged in increasing energy efficiency in public buildings.
- Increase public employee knowledge of how to maximize energy savings in their buildings.
- Reach out to all publicly owned facilities, and help them start tracking and cutting energy costs – federal, state, special districts, etc.
- Create a target and plan for yearly improvements so that public facilities meet the overall GCE goals.
- Identify and implement ways to help governments overcome any upfront financial barriers to efficiency improvements.

### **B: Increase the energy performance of businesses**

- Double the number of businesses participating in the Garfield Clean Energy Challenge over 2012 total by the end of 2013.
- Identify and implement ways to make it easier and faster for businesses to become more energy efficient.
- Create more ongoing awareness of economic and energy saving benefits and opportunities.
- Increase awareness and use of available financing and technical assistance through marketing, media work and development of case studies.
- Build partnerships with utilities and energy efficiency related contractors to increase the pace of improvement.

### **C: Increase the energy efficiency performance of homes:**

- Double the number of homes participating in the Garfield Clean Energy Challenge over 2012 total by the end of 2013.
- Identify and implement ways to make it easier for homes to become more energy efficient.

- Create more ongoing awareness of economic and energy saving benefits and opportunities.
- Increase awareness and use of available financing and technical assistance through marketing, media work and development of case studies.
- Build partnerships with utilities and energy efficiency related contractors to increase the pace of improvement.

**Goal #2: Reduce petroleum consumption 25% by 2020, over a baseline 2009, as a means to a stronger, more resilient and energy-secure economy.**

- Provide ongoing feedback and reporting on fleet efficiency improvement by adding fleet information to the Navigator.
- Create reward system for encouraging greater public employee action on fleets; encourage a culture of action and innovation on petroleum independence.
- Increase the number of government fleets participating in petroleum independence program.
- Encourage use of non-car options through county-wide Safe Routes to School competitions and improvement to infrastructure.
- Lead western slope CNG collaborative.
- Create targets and plan for yearly improvements so that fleets meet overall GCE petroleum reduction target.
- Increase the number of private sector fleets taking action to reduce dependence on petroleum.
- Continue to support chambers and economic development groups in expanding, promoting trails for economic development.
- Increase knowledge on ways to reduce petroleum dependence through trainings, media outreach, and case study development.
- Identify and implement ways to help public and private fleet operators overcome barriers and lack of action on fleet efficiency.

**Goal #3: Obtain 35% of our energy from renewable sources by 2020 as a means to a stronger, more resilient and more energy-secure economy.**

- Increase the visibility of solar thermal as a cost effective technology; identify and implement methods to help energy users overcome barriers impeding increased use of solar thermal.
- Create support program for solar thermal installers and increase the availability of service.
- Assist more GCE partners and energy users to use power purchase agreements; Install more on-site solar on public facilities to fully reduce costs and emissions.
- Work with utilities to create more incentives for renewables.
- Follow up on roof top survey and work to encourage solar installations at most promising locations.

- Through Garfield Clean Energy Challenge contact with businesses and homes encourage use of combined energy efficiency and renewables; use of GCE financing programs to increase both.
- Participate in county energy study; develop options for additional large-scale renewable energy systems.
- Develop targets for annual increases to ensure overall renewable energy goals are met.



**GARFIELD CLEAN ENERGY COLLABORATIVE**

**2013 AMENDED BUDGET**

|   | <b>2013</b>                                | <b>Matching<br/>grant addition</b> | <b>Total 2013</b>                   | <b>Notes</b>          |
|---|--|------------------------------------|-------------------------------------|-----------------------|
|   | <b>Budget<br/>approved in<br/>Dec 2012</b> |                                    | <b>Amended<br/>budget</b>           |                       |
| <b>Revenue</b>  |  |                                    |                                     |                       |
| <b>Grants</b>   |  |                                    |                                     |                       |
| DOE Better Buildings Grant – for buildings only                           |  |                                    |                                     |                       |
| Restricted Funds from prior year: DOE Better Building Credit Reserve Fund | 303,333                                    |                                    | not included in 2013 revenue totals |                       |
|   |  |                                    |                                     |                       |
| <b>Partnership Funding</b>  |  |                                    |                                     |                       |
| Garfield County   | 155,000                                    |                                    | 155,000                             |                       |
| Parachute   | 1,000                                      |                                    | 1,000                               |                       |
| Rifle   | 38,000                                     |                                    | 38,000                              |                       |
| Silt  | 2,500                                      |                                    | 2,500                               |                       |
| New Castle  | 13,000                                     |                                    | 13,000                              |                       |
| Glenwood Springs  | 43,000                                     |                                    | 43,000                              |                       |
| Carbondale  | 25,000                                     |                                    | 25,000                              |                       |
| Library District  | 5,000                                      |                                    | 5,000                               |                       |
| RFTA  | 20,000                                     |                                    | 20,000                              |                       |
| Colorado Mountain College   | 29,000                                     |                                    | 29,000                              |                       |
| Garfield County Matching Grant  |  | 100,000                            | 100,000                             |                       |
| Carbondale – match  |  | 75,000                             | 75,000                              |                       |
| Encana contribution - match   |  | 24,000                             | 24,000                              | For alternative fuels |
| Roaring Fork Education Foundation - match                                 |  | 3,500                              | 3,500                               | Renewables education  |
| Aspen Science Foundation - match  |  | 1,000                              | 1,000                               | Renewables education  |
| <b>Total Revenue</b>  | <b>331,500</b>                             | <b>203,500</b>                     | <b>535,000</b>                      |                       |
|   |  |                                    |                                     |                       |
| <b>Expenses</b>   |  |                                    |                                     |                       |
| <b>Countywide Energy Efficiency for Economic Development Program</b>      |  |                                    |                                     |                       |
| <b>Commercial sector</b>  |  |                                    |                                     |                       |
| Energy Coaching/Program Coordination and Reporting/ Technical Assistance  | 45,000                                     | 17,800                             | 62,800                              |                       |
| Marketing/Outreach/Education/Training                                     | 8,750                                      | 12,250                             | 21,000                              |                       |
| Hard costs  |  | 4,950                              | 4,950                               |                       |
| Rebates   |  | 15,000                             | 15,000                              |                       |
| <b>Total</b>  | <b>53,750</b>                              | <b>50,000</b>                      | <b>103,750</b>                      |                       |
| <b>Residential sector</b>   |  |                                    |                                     |                       |

|   |                |                |                |                                 |
|---|----------------|----------------|----------------|---------------------------------|
| Energy Coaching/Program Coordination and Reporting/ Technical Assistance                                    | 22,500         | 20,000         | 42,500         |                                 |
| Marketing/Outreach/Education/Training   | 8,750          | 5000           | 13,750         |                                 |
| Rebates - Carbondale  |                | 20,000         | 20,000         |                                 |
| <b>Total</b>  | <b>31,250</b>  | <b>45,000</b>  | <b>76,250</b>  |                                 |
| <b>Petroleum Independence Project (Transportation Sector)</b>   |                |                |                |                                 |
| Transportation Alternatives/Safe Routes   | 21,000         |                | 21,000         |                                 |
| Efficient Vehicles/Fleets   |                |                | 0              | Refuel Co grant will supplement |
| Alternative Fuels   |                | 24,000         | 24,000         | ditto above                     |
| Marketing/outreach/training   | 3,600          |                | 3,600          |                                 |
| <b>Total</b>  | <b>24,600</b>  | <b>24,000</b>  | <b>48,600</b>  |                                 |
| <b>Countywide Energy Portfolio diversification – Local Renewables</b>                                       |                |                |                |                                 |
| Technical Assistance  | 5,000          | 9,500          | 14,500         |                                 |
| Renewables development/financing  | 5,000          |                | 5,000          |                                 |
| Education   |                | 9,000          | 9,000          | match from foundations          |
| <b>Total</b>  | <b>10,000</b>  | <b>18,500</b>  | <b>28,500</b>  |                                 |
| <b>Government facilities, energy cost savings program</b>   |                |                |                |                                 |
| Energy Data Mgt/Navigator   | 67,900         |                | 67,900         |                                 |
| Active Energy Mgt, Technical Assistance, Ed. Programs   | 25,000         | 25,000         | 50,000         |                                 |
| Building Hardware   | 7,500          |                | 7,500          |                                 |
| <b>Total</b>  | <b>100,400</b> | <b>25,000</b>  | <b>125,400</b> |                                 |
| <b>Countywide GCE Partnership Services, Programs</b>  |                |                |                |                                 |
| Administration, coordination, strategic planning, mtgs with all GCE partners, long term funding development | 45,000         | 30,000         | 75,000         |                                 |
| Legal   | 5,000          |                | 5,000          |                                 |
| Accounting  | 10,000         |                | 10,000         |                                 |
| Website, public information, printing, outreach on all GCE topics, communications                           | 45,000         | 5000           | 50,000         |                                 |
| Education, training, special events   | 6,500          | 6,000          | 12,500         |                                 |
| <b>Total</b>  | <b>111,500</b> | <b>41,000</b>  | <b>152,500</b> |                                 |
| <b>Total Expenses</b>   | <b>331,500</b> | <b>203,500</b> | <b>535,000</b> |                                 |