



We Have The Power  
[ColoradoCarbonFund.org](http://ColoradoCarbonFund.org)

# Colorado Carbon Fund Advisory Council Meeting February 22<sup>nd</sup>, 2011





- 1. Introductions**
- 2. Brief Overview of the GEO and CCF**
- 3. CCF Contributors**
- 4. Projects: Outreach, Community Reinvestment, and Offset Projects**
- 5. Additional CCF Happenings: Current and Future**
- 6. Advisory Committee Input**



## Team at GEO

- **Hillary Dobos**, Program Manager
- **Suzanne Pletcher**, Communications Outreach Manager
- **Several Interns**
- **GEO Synergies:** REDT, Weatherization Team

## The Climate Trust

- **Sheldon Zakreski**, Senior Program Manager

## The Advisory Board



*Enabling Colorado citizens, event planners, and businesses to **voluntarily** reduce their carbon footprint using **Colorado-originated, high quality, verified carbon offsets, while strengthening Colorado's private sector jobs and economy.***



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- Support Colorado Climate Action Plan
- Expand Colorado Carbon Offset Market
  - Increase **demand** through education, sales, etc.
  - Increase **supply** through protocol creation, connecting projects with developers, access to revolving loans, etc.
- Help inform citizens/utilities regarding regional/federal policy involving offsets

# Colorado Carbon Fund

Expanding Offset Market in CO

Offset Education

Pre-Compliance

Voluntary Market

General Public

Schools

Legislation

Protocol Creation?

Supporting Projects that Meet standards

Selling Offsets

Offset Education

Other Colorado Programs (Denver, Aspen, etc)

Events/ Lectures

License Plates

SCORE

CU Green Labs

Denver Energy Challenge

Regional and Federal

Colorado

Bringing Various Groups to Table

Connecting Various Groups

Financial Support



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# Carbon Markets





## International-

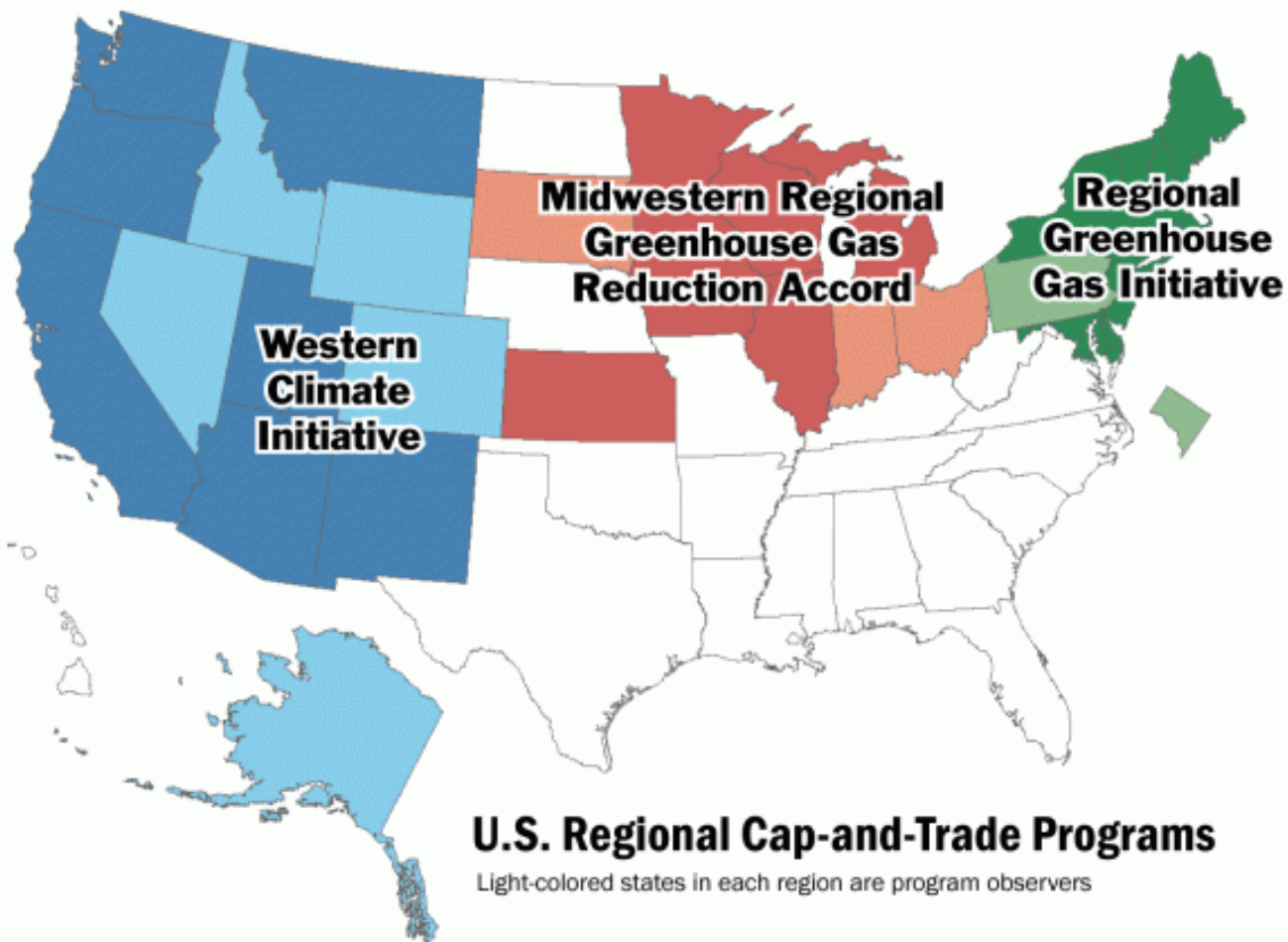
- **Kyoto Protocol (UNFCCC) – Clean Development Mechanism**
- **European Union Emissions Trading Scheme (EU-ETS)**
  - Total = \$134.2 billion in 2008, \$141.2 billion in 2009
  - Total = 4.093 MtCO<sub>2</sub>e in 2008, 7.812 MtCO<sub>2</sub>e in 2009
  - Compare to entire Colorado emissions is about 0.044 MtCO<sub>2</sub>e

## North America - Emerging State/Regional Regulations

- **Regional Greenhouse Gas Initiative (RGGI)**
  - \$0.25 billion in 2008, \$2.7 billion in 2009
  - Total = 0.062 MtCO<sub>2</sub>e in 2008, 0.813 MtCO<sub>2</sub>e in 2009
- **Western Climate Initiative (WCI) Goes Live January 2012:** 11 partners (7 Western states and 4 Canadian provinces) , 15 observers (5 Canadian Provinces, 6 US States (including Colorado), and 6 Mexican states)
- **Midwestern Greenhouse Gas Accord (the “Accord”): Goes Live January 2012** 6 states
- **AB -32:**California (January, 2012)

## Federal

- **American Clean Energy and Security Act (Waxman-Markey)** (June, 2009)
- **Kerry-Lieberman** (stalled in Senate)
- **EPA Air Emissions/Solid Waste Draft Regulations**



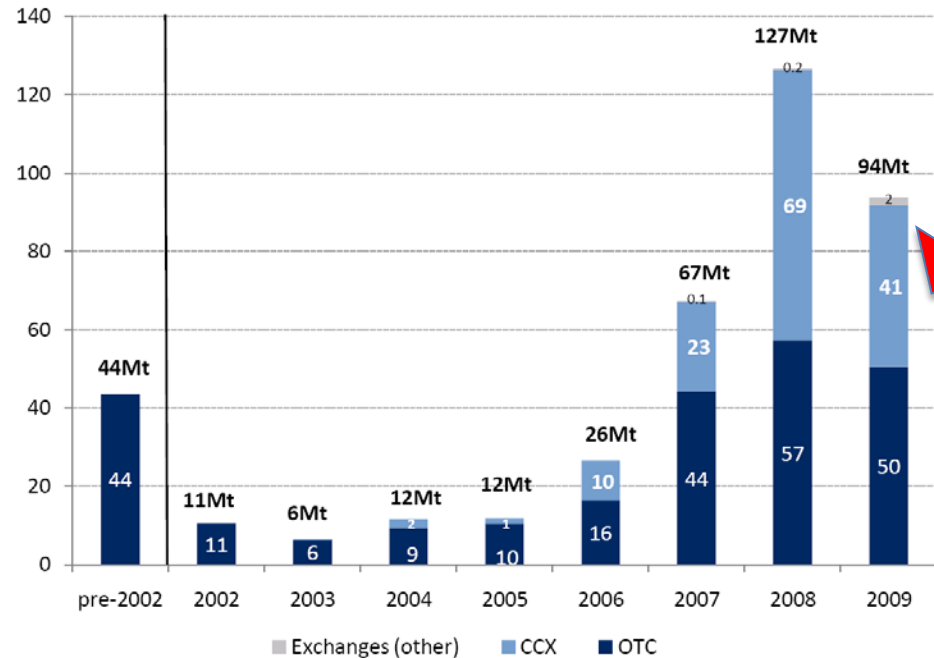


**Voluntary market** - bilateral trades between willing buyers and sellers (also called Over-the-Counter or OTC), not regulated, but there are industry best practices and 3<sup>rd</sup> party certification

Markets	Volume (MtCO <sub>2</sub> e)		Value (US\$ million)	
	2008	2009	2008	2009
Voluntary OTC	57	51	420	326
CCX	69	41	307	50
Other Exchanges	0.2	2	2	12
<b>Total Voluntary Markets</b>	<b>127</b>	<b>94</b>	<b>728</b>	<b>387</b>
EU ETS	3,093	6,326	100,526	118,474
Primary CDM	404	211	6,511	2,678
Secondary CDM	1,072	1,055	26,277	17,543
Joint Implementation	25	26	367	354
Kyoto [AAU]	23	155	276	2,003
New South Wales	31	34	183	117
RGGI	62	813	241	2,667
Alberta's SGER	3	5	34	61
<b>Total Regulated Markets</b>	<b>4,713</b>	<b>8,625</b>	<b>134,415</b>	<b>143,897</b>
<b>Total Global Markets</b>	<b>4,840</b>	<b>8,719</b>	<b>135,143</b>	<b>144,284</b>

Source: Ecosystem Marketplace, Bloomberg New Energy Finance, World Bank.  
 Note: Figures may not add up due to rounding.

Figure 1: Transaction Volume Growth for the Voluntary Carbon Markets



Source: Ecosystem Marketplace, Bloomberg New Energy Finance.  
 Note: CCX bilateral trades included in the OTC volume.



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# Contributors to CCF





- **Reasons Individuals Donate in order (based off of survey of 95 individuals)**
  - Reduction of Greenhouse Gas for Travel (flight and/or vehicle)
  - Support Colorado clean energy projects
  - Reduction of Greenhouse Gas for Electric Use (gas and/or electric bill)
  - Support Colorado Carbon Fund's Educational Outreach Programs
  - Receive a Tax Deduction (Since contribution made through The Climate Trust, a 501c3)
- **Reasons Businesses Donate in order (based off of survey of 8 businesses and conversations with companies)**
  - Carbon Reductions
  - Corporate Branding
  - Cross Promotional and Marketing Outreach
  - Receive a Tax Deduction
  - Support Colorado Projects (many companies in several states)



- **Positive Trends**
  - Repetition is up
  - More individuals, events, and companies are donating then ever before
- **Negative Trends**
  - The size of individual donations has decreased



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# Projects: Outreach, Community Reinvestment, and Offset Projects



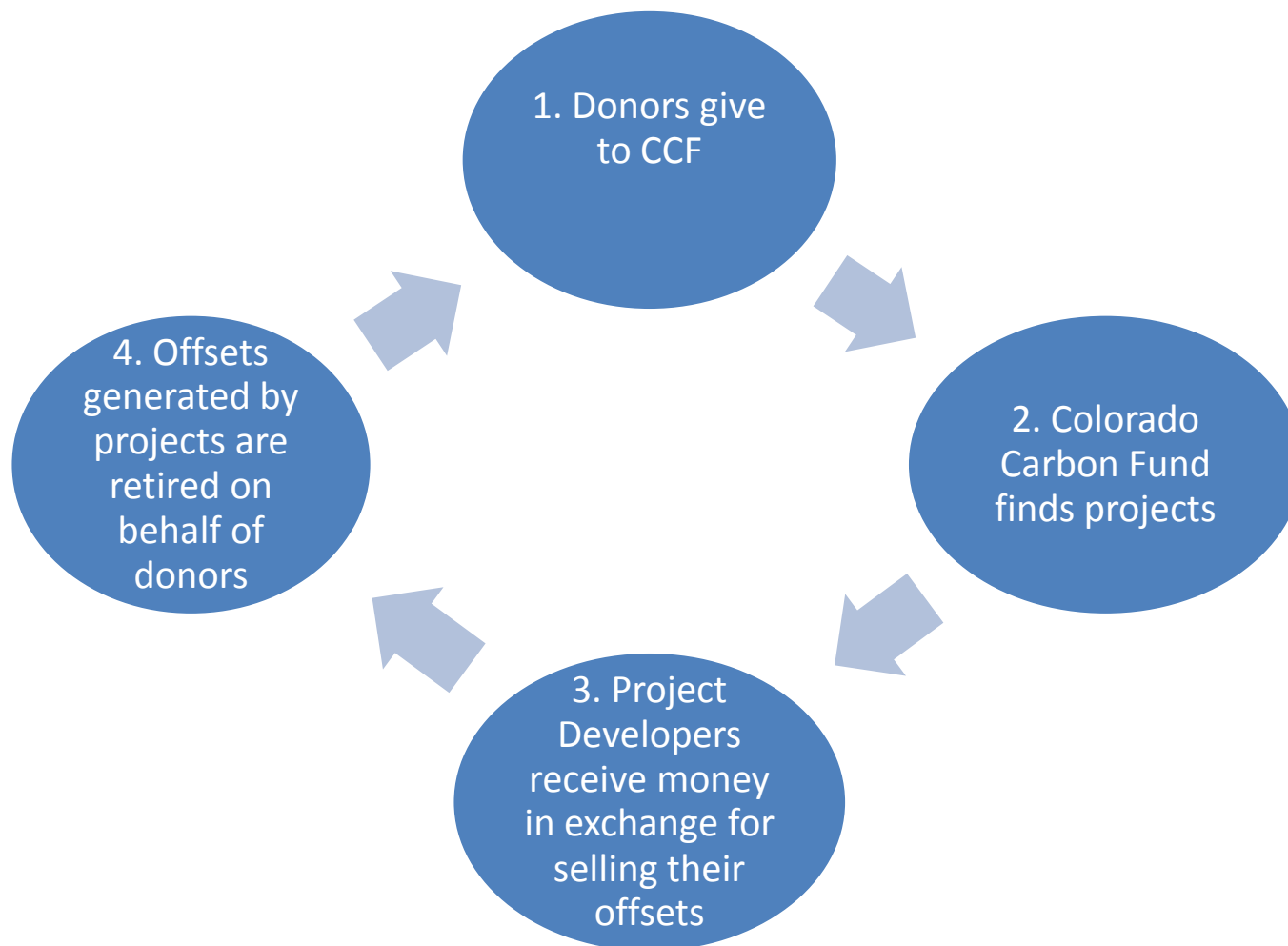


- **Presentations and Events**
  - Present at events throughout state
- **Offset Education – Social Media:**
  - E-Newsletter → 4,500 + individuals
  - Facebook → 440+ Fans
  - Twitter → 880+ Followers
- **Energy Efficiency Education & Outreach**
  - **\$SCORE:** Student Renter Outreach Program
  - **CU Green Labs:** Greening of 400 labs on CU-Boulder Campus
  - **Denver Energy Challenge:** Promote energy education projects through the extra-curricular green clubs





# Project Funding Cycle





## Current Projects

- Larimer County Landfill Project
- Solar Hot Water Projects
  - 2 currently reducing emissions
    - Arvada: Apex Recreation Center
    - Loveland: Maple Terrace Affordable
  - 2 in contracting
    - Steamboat Springs
    - Boulder



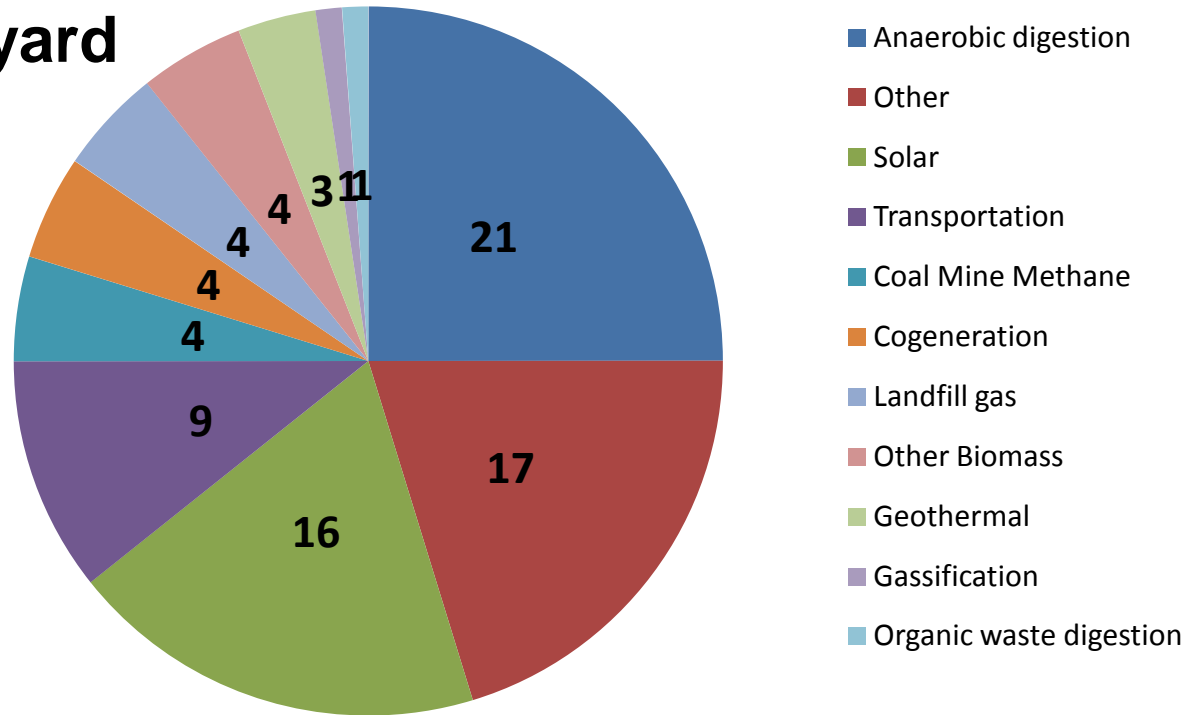


- Located in Colorado
- Additionality (beyond “business-as-usual” )
- Focus on commercially viable energy projects, no sequestration/afforestation
  - Potentially worth reconsidering
- Realistic Baselines and Emission Reduction Quantification
- Monitoring, Verification, 3<sup>rd</sup> party Certification
  - Climate Action Review, Voluntary Carbon Standard, American Carbon Registry, and Gold Standard
- 40,000 metric tons CO<sub>2</sub>-e reduced over project life
- We plan to pay \$5-12 per metric ton CO<sub>2</sub>e



# Update on Project Pipeline

**262 Project Leads to Date**  
**178 are in the bone yard**  
**84 Projects Live**



## Future Pipeline:

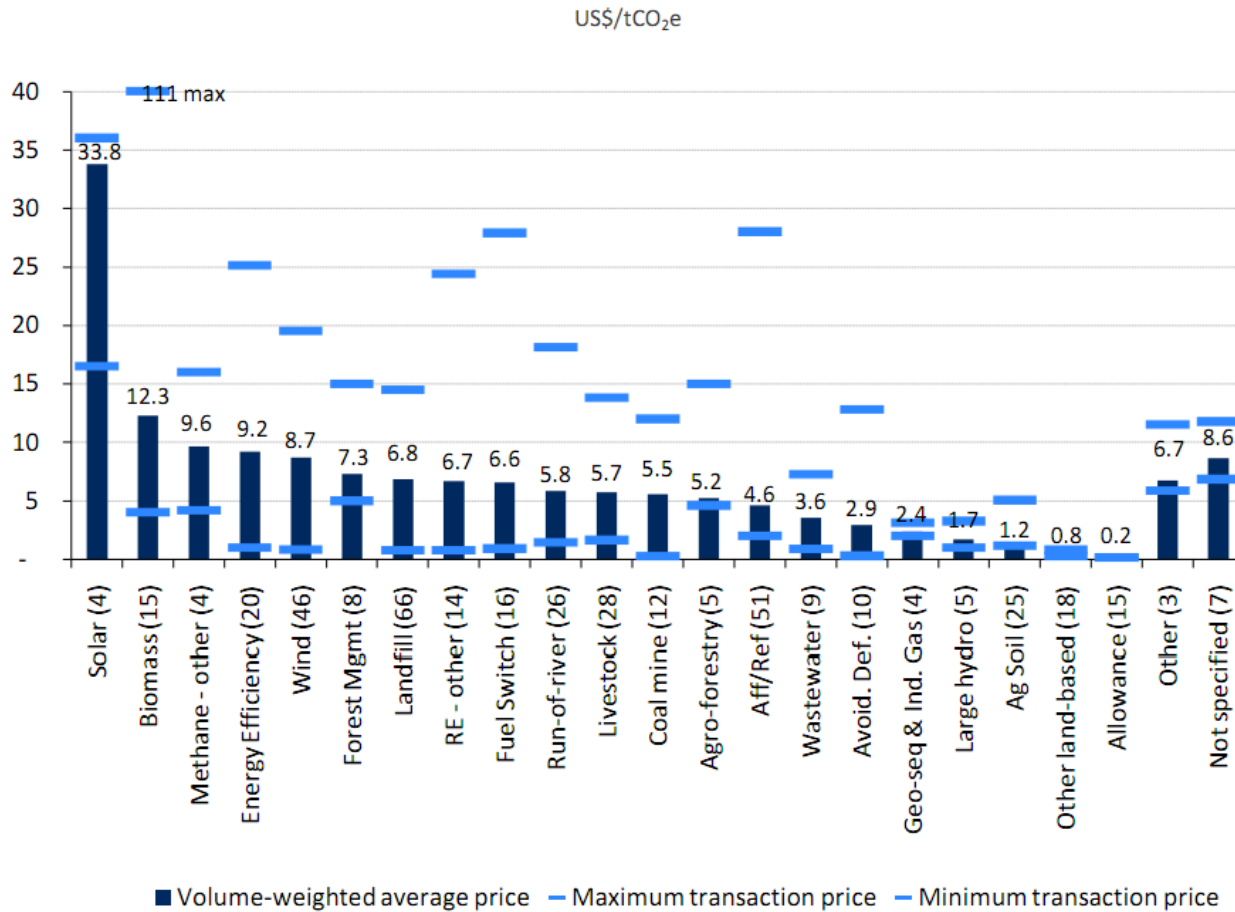
- The Climate Trust and the Colorado Carbon Fund are reevaluating the selection process



- **The Climate Trust is currently completing a carbon project potential assessment for Colorado**
- **Approximately 150k (and growing) available for next project**
  - Enough to purchase 1 or 2 years of carbon for most projects that meet offset market criteria
- **2 Strong Landfill Gas Methane Leads**
- **4 Strong Anaerobic Digester Leads**
  - **GHG Reduction Potential in Colorado:**
    - Ranked 10<sup>th</sup> in the nation for amount of cattle and calves, 15<sup>th</sup> for hogs and pigs, and 17<sup>th</sup> for turkeys (2007 census of agriculture)
    - 32 project developers/projects have come to the CCF to look into offsets
    - Only 1 recorded Colorado project out of 151 nationwide projects
- **2 Strong Coal Mine Methane Leads**
  - **GHG Reduction Potential in Colorado:**
    - Colorado coal mines provide approximately 2.73% of nations coal
    - 9 project developers/projects have come to the CCF to look into offsets
    - Recent advances in protocols that will make it easier to monetize the carbon from this project type



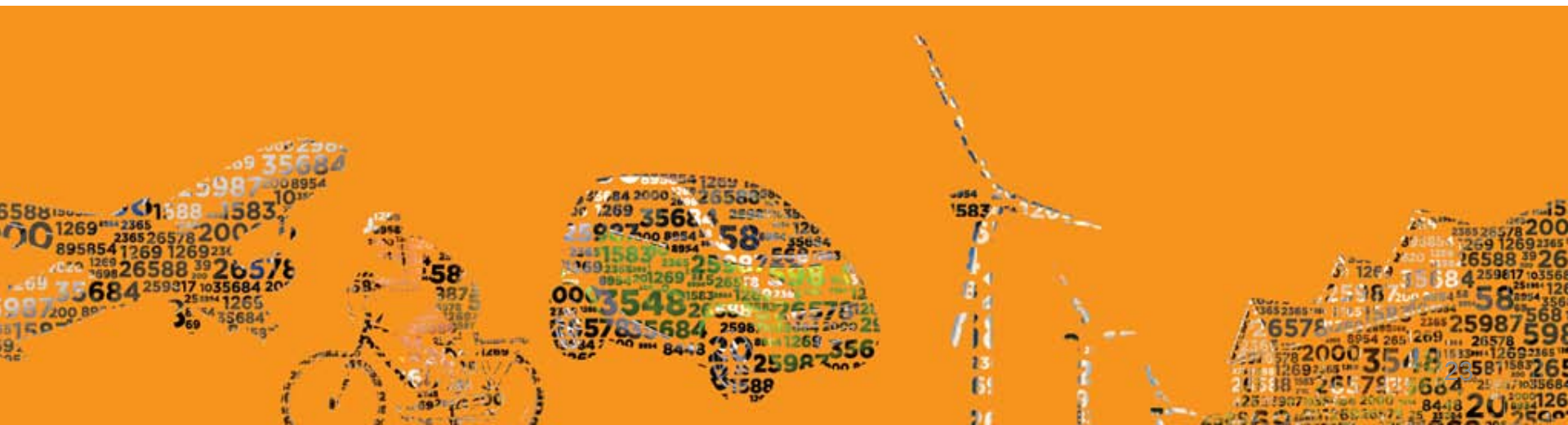
Figure 3: Average Credit Price and Price Range by Project Type, OTC 2009





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# CCF Activities – Current and Future





- **On our way to become self-sufficient**
- **Supply**
  - Move forward with chosen project (s)
  - Streamline acquisition efforts
    - Pipeline Cleanup
  - Webinar for project developers, etc. (Increase education)
- **Demand**
  - Rebranding complete and roll out
  - Full push to **increase donations**
  - License Plate
  - Increase Education
- **Infrastructure**
  - Reinforce partnership with DOE
  - Build Partnerships
  - Grants
  - Continue to clean up/re-launch program (efficiencies, elegant)
  - Business Plan – finalize



# Website & Media Campaign(s)

**Colorado Carbon Fund** | Offset Now  
Vehicle | Home | Travel | Event | Business

**Individuals and Families**

- Business and Events
- Who We Are
- How It Works
- The Projects
- Our Supporters
- The News
- Contact Us

**BALANCING YOUR CARBON FOOTPRINT IS NOT A COLOSSAL CHORE. LIKE YOU THINK YOU HAVE THE WILL, WE HAVE THE WAY.**

**Your Donations at Work**

**Community Based Solar Hot Water:**

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**Events**

Dec 1, 2010 >>> Lorem ipsum dAkor sit amet, consectetur sadspsich elit, sed diam nonummy airmod tempor

Dec 1, 2010 >>> Lorem ipsum dAkor sit amet, consectetur sadspsich elit, sed diam nonummy airmod tempor

**Donate a Gift** | **Join the Good**

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email address

[submit](#)

**Your Business Hires**

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ENVIROFIT | ampt | BeLocal | natural HOME | anetribes creative | ampt

**Colorado Carbon Fund** | Offset Now  
Vehicle | Home | Travel | Event | Business

**Individuals and Families**

Offset Today

- Vehicle
- Home
- Travel

Reduce Tomorrow

- Smart Actions
- Good Resources

Donate a Gift

**Business and Events**

- Who We Are
- How It Works
- The Projects
- Our Supporters
- The News
- Contact Us

**Offset your travel now!**

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Select ONE of the two calculation methods below to total your carbon footprint.

**Average Offset**

How often do you fly in a year?

about  Short Flight(s)  
Less than 2 hours each way

about  Medium Flight(s)  
2-3 hours each way

about  Long Flight(s)  
3-6 hours each way

about  Extended Flight(s)  
6+ hours each way

OR

Offset by a Specific Flight

- Round Trip  
Same stops in both locations
- One Way

Begin

State:  Make international  
Add layover (+)

End

State:  Make international

**Your Footprint is**

POUNDS for this year

**Vehicle** \$0.00

**Home** \$0.00  
[Click here to calculate](#)

**Travel** \$120.00  
22,000 lbs CO2

Monthly payments

\$120.00 Yearly payment

Choose your own dollar amount



# Contact Information

**We Have The Power**

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