

# Governor's Energy Office



**REGIONAL REPRESENTATIVE  
COLORADO GOVERNOR'S ENERGY OFFICE  
8-2009  
NATIONAL HYDRO ASSOCIATION SW**

# Can you relate?



Frank Quirarte / Special to The Chronicle

# Governor's Energy Office Programs



## Governor's Energy Office (GEO) Energy Efficiency and Renewable Energy Programs:

- ❑ Electric & Gas Utilities
- ❑ Public & Commercial Buildings
- ❑ Residential Buildings
- ❑ Income-Based Energy Services
- ❑ Renewable Energy & Local Fuels
- ❑ Greening Government
- ❑ Colorado Carbon Fund
- ❑ Energy Policy, Legislation, Resources & Funding



# Working in all 64 Colorado Counties



## Helping communities...

- ❑ Identify energy and conservation resources
- ❑ Remove barriers to appropriate installations of renewable energy and conservation projects and practices
- ❑ Meet their goals to reduce energy consumption and costs and to increase local generation of clean power
- ❑ Create new, *green-collar* jobs supporting the New Energy Economy





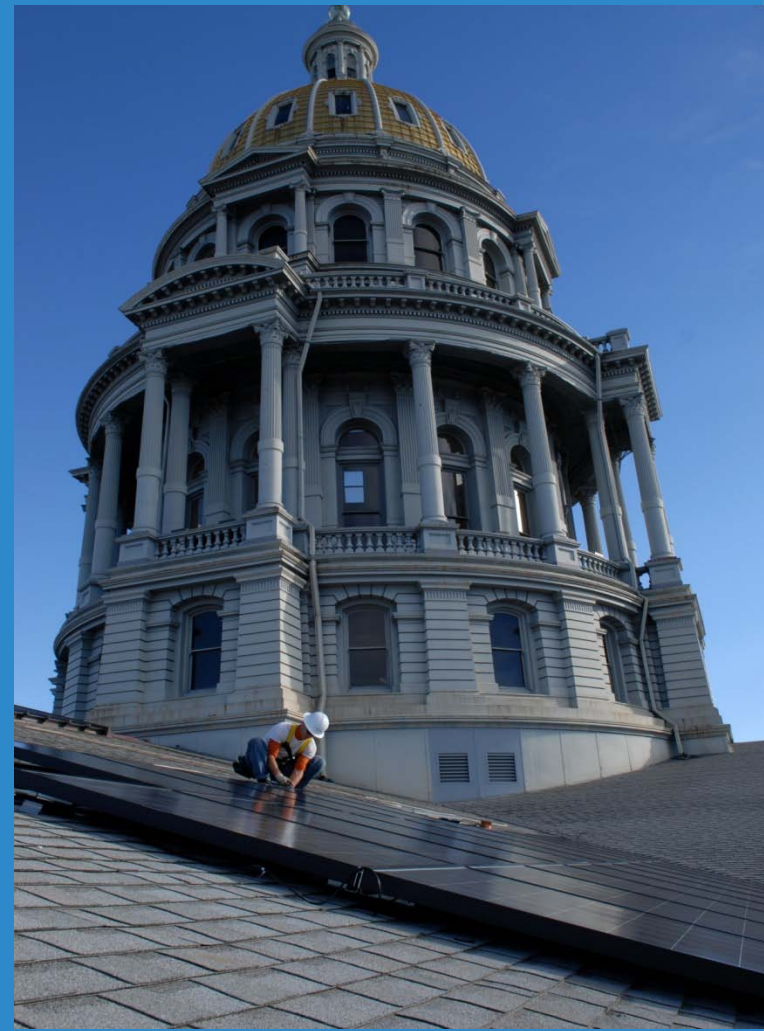
# Where is this? What made this possible?



# Green Jobs and Renewable Energy



- **RECOGNIZE THIS?**
- **LEED EXISTING BUILDING OPERATIONS AND MAINTENANCE**
- **PERFORMANCE CONTRACTING**
- **EXTRA SAVINGS IN THE 1<sup>ST</sup> YEAR PAID FOR SOLAR**



# Policies support new business development



- **Renewable Portfolio Standard**
  - 20% by 2020 renewable with a carve out for solar
- **Solar Contractors in CO prior to Amendment 37**
  - Companies- 46
  - Employees- 50-75
  - Manufacturers- 0
- **Today over \$48Million Invested**
- **180 solar companies with 3,600 employees working not including manufacture or R&D**
- **Almost 40 Megawatts (MW) of installed solar: less than 1MW in 2004. 80 MW required by 2020**



# What is the result?



- Colorado gross product is 1.7% in the nation
- Ranks 6<sup>th</sup> in wind investment
- Ranks 6<sup>th</sup> in solar
- 1069 MW of wind power installed in Colorado;
  - ✦ over \$1 Billion invested
- Vestas Wind has 3 facilities manufacturing facilities
- Counties with wind gain property taxes
- Siemens, AVA Solar, Conoco Phillips and a numerous other companies setting up R&D



# The New Investments



- **Legislation as a driver?**
  - HB 07-1146-Improved local building codes
  - HB 07- 1309 GEO calls out “performance contracting,” for public buildings including K-12 school buildings
  - SB 07- 51 New state buildings and buildings constructed with state funds must meet the LEED- Leadership in Energy and Environmental Design standards set by the United States Green Building Council.

# The New Investments



- HB 07-1037-
- Directs the Colorado Public Utilities Commission (PUC) to require jurisdictional electric utilities and gas local distribution companies to develop and substantially expand energy efficiency programs.
- And requires investor-owned utilities to provide cost-effective (DSM) energy efficiency programs to their customers.



# The New Drivers



- Federal Carbon Cap and Trade?
- Federal Investment in Green Jobs?
- Federal Investment in Efficiency with Stimulus Funds
- Energy Price Volatility

# Colorado Carbon Fund Online



**We Have The Power**

## latest news

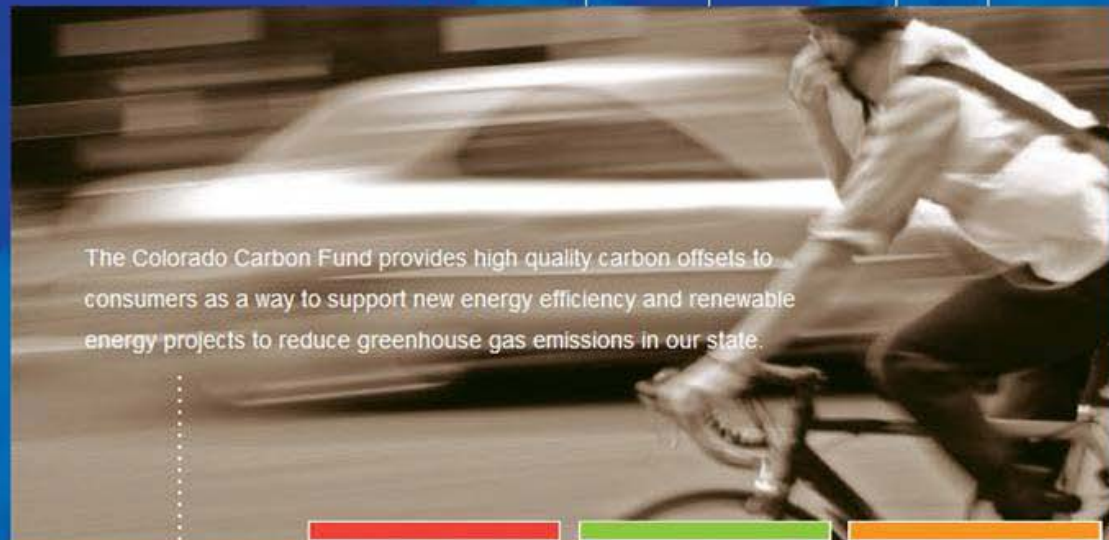
Colorado Carbon Fund license plate now available!



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The Colorado Carbon Fund provides high quality carbon offsets to consumers as a way to support new energy efficiency and renewable energy projects to reduce greenhouse gas emissions in our state.

**DO YOUR PART >>**

## think

Use our online calculator to measure the greenhouse gas emissions from your energy use, driving and air travel

## act

Take simple steps to reduce your energy consumption - you'll lower emissions and save money on your energy and fuel bills

## fund

For the emissions you can't reduce on your own, donate to the Colorado Carbon Fund and we'll support projects that reduce emissions right here in our state

Site by [One Tribe Creative](#)

[www.ColoradoCarbonFund.org](http://www.ColoradoCarbonFund.org)



Governor's  
Energy Office

# Why Buildings?

**U.S. ENERGY  
CONSUMPTION**

**BUILDINGS  
39%**

**INDUSTRY  
29%**

**TRANSPORTATION  
32%**





# State Energy Program



- **State Energy Program**

- State portion \$50M
- Primary way in which state offers efficiency and renewables services
- Changes in Recovery Act:
  - ✦ Waiver of 20% Matching Requirement
  - ✦ Waiver of restriction on capital investments



# GEO SEP Investment Strategy



- **Address Barriers**
  - **ACCESS TO INFORMATION**
    - ✦ where do I start?, who do I call?, what do I do? what incentives are available? How much does it cost? how do I pay for it?
  - **ACCESS TO CAPITAL/FINANCING**
    - ✦ up front costs, subsidized commercial financing, sb 184 implementation, assistance for performance contracting, loosen credit market;
  - **ACCESS TO SERVICES**
    - ✦ workforce development, training, certification, business expansion into underserved areas, advancing new energy economy curricula

# GEO Weatherization



- Currently 8 State Agencies provide energy efficiency improvements to income based residences
- \$80 million funding for 2 + years
- Significant increase in # of homes
- Opportunities to provide new services in our communities
- GEO web site and regional agency contacts

# Energy Efficiency Conservation Block Grant



**\$4 2,618,700 total to Colorado**

**\$ 32,878,300 directly to 20 cities and 10 counties, based on a population-related formula grant**

**\$ 9,593,500 to the state energy office, of which GEO will issue no less than \$5,756,100 in subgrants to non-entitled municipalities and counties**

**Southern Ute Indian Tribe of the Southern Ute Reservation, Colorado \$ 71,900**

**CO/NM/UT Ute Mountain Tribe of the Ute Mountain Reservation, Colorado, New Mexico & Utah \$ 75,000**



# DOE Competitive Grant Opportunities



- GEO is interested to facilitate and create other funding sources from DOE competitive grants
- \$800 Million for Biomass
- \$400 Million for Geothermal
- \$250 Million for RE and EE Green Jobs Training
- \$300 Million for Energy Star Appliances
- \$350 Million for Retrofit Assisted Housing
- Others?



# Transparency and Accountability



- **Rigorous Transparency and Accountability Requirements**
  - Every dollar expended under the Recovery Act will be tracked and analyzed for impact
  - [www.colorado.gov/energy](http://www.colorado.gov/energy)
  - [www.colorado.gov/recovery](http://www.colorado.gov/recovery)
  - [www.recovery.gov](http://www.recovery.gov)



# Thank You



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