

## **GEO Annual Report to the Colorado Legislature Presentation to Joint Agriculture Committee**

TJ Deora, Director  
February 1, 2012

### **Overview**

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**FY '11**

FY '12

FY '13

**Weatherization Assistance Program**

## FY'10-'11: GEO Mission

### Statutory Mission

To lead Colorado to a new energy economy by advancing energy efficiency and renewable, clean energy resources.



### ARRA Mission

To preserve jobs and promote economic recovery; to assist those most impacted by the recession; to provide investments needed to create economic efficiency by spurring technological advances in science and health; to invest in transportation, environmental protection and other infrastructure that will provide long-term economic benefits; and to stabilize state and local government budgets in order to minimize and avoid reductions in essential services and counterproductive state and local tax increases.



## FY'10-'11: Strategic Plan Outcomes

Program	Program Description
Commercial Buildings	Technical assistance, grants for energy efficiency retrofits
Finance	Revolving Loan Fund, Green Credit Reserve, QECCB
Residential Buildings	Technical assistance, consumer awareness/education
Greening Govt. EPC	Decreasing public sector utility bills, financing EE retrofits
Renewable Energy	Streamlining regulations, grants, technical assistance
EE and RE Rebates	Incentives for EE retrofits and RE installations, supporting utility partners

**Direct Spending:**  
\$40,110,212



**Dollars Leveraged:**  
\$107,021,690



**Energy Saved:**  
29,200,000 kWh



**Energy Generated:**  
509,000 kWh



**Emissions Avoided:**  
53,700 MT



**Consumer Savings:**  
\*\$11,700,000

\*Estimated savings based on current utility cost

ABBREVIATION KEY:

FY=fiscal year, QECCB=qualified energy conservation bonds, EE=energy efficiency, RE=renewable energy, kWh=kilowatt hours, MT=metric tons

# FY'10-'11: Program Examples

	Description	Outcomes
<b>Energy Performance Contracting (EPC)</b>	<ul style="list-style-type: none"> <li>Provides school districts, local, &amp; state gov'ts capital for energy performance upgrades</li> <li>Saves public sector budget utility costs and improves conditions of buildings</li> </ul>	<ul style="list-style-type: none"> <li>16 projects completed:               <ul style="list-style-type: none"> <li>\$23,900,000 invested</li> </ul> </li> <li>9,042 MWh saved =               <ul style="list-style-type: none"> <li>8,068 MT Emissions</li> <li>\$1,742,000 annually</li> </ul> </li> <li>20 new EPCs signed</li> </ul>
<b>Energy Star New Homes</b>	<ul style="list-style-type: none"> <li>Provide 100 bp reduction in mortgage APR for qualifying homes</li> <li>Decreases both utility bills and mortgage payments</li> </ul>	<ul style="list-style-type: none"> <li>47% new builds to standard</li> <li>33 mortgages, \$8.57 mm</li> <li>\$1,298 average rebate</li> <li>156.75 MWh Saved =               <ul style="list-style-type: none"> <li>214 MT Emissions</li> <li>\$880 per home</li> </ul> </li> </ul>
<b>Transportation Fuels (Biofuels and CNG)</b>	<ul style="list-style-type: none"> <li>Provided grants to retrofit or build stations to include alternative fuels</li> <li>Increases consumer options and decreases dependence on imported fuels</li> </ul>	<ul style="list-style-type: none"> <li>2 CNG stations funded</li> <li>* 86 new biofuels stations</li> <li>3.3 mm gallons biofuels sold</li> <li>\$394,308 annual savings</li> </ul>

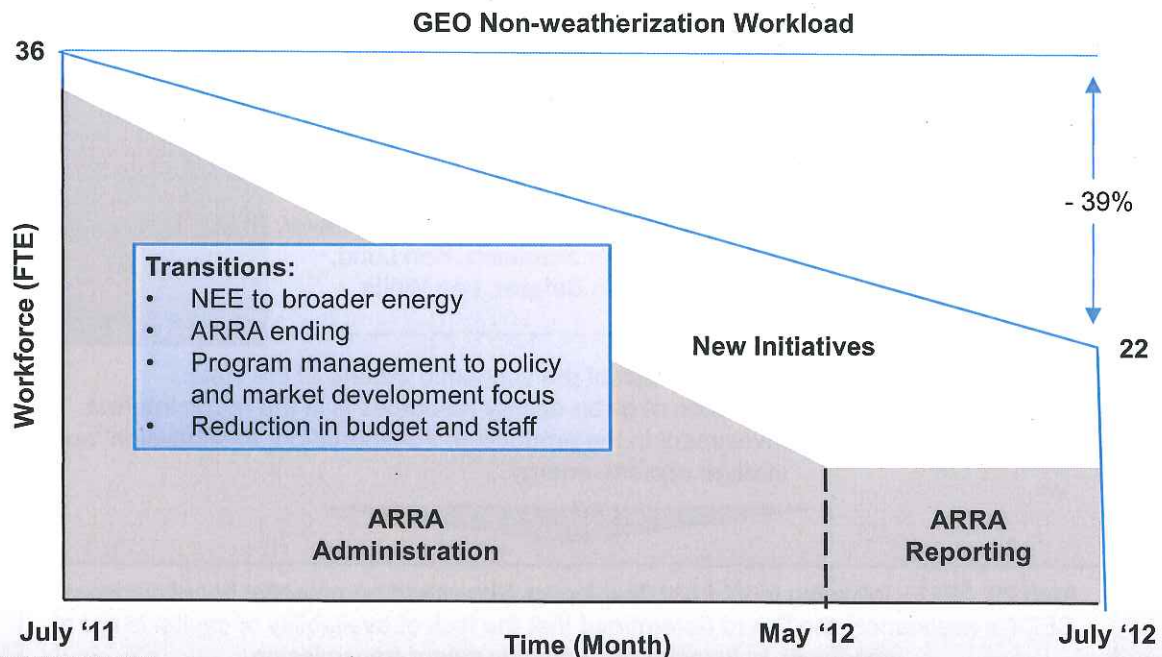
\*Program totals, not annual totals

ABBREVIATION KEY:

FY=fiscal year, EPC=Energy Performance Contracting, bp = basis points (100 bp=1%), APR=annual percentage rate, CNG=compressed natural gas, MWh=megawatt hours, MT=metric tons



# FY'11-'12: Transitions








ABBREVIATION KEY:

FTE=full time employees, NEE=new energy economy, ARRA=American Recovery and Reinvestment Act



## FY'11-'12: New Initiatives

	Goals	Details
1.	 <b>Create a Balanced Energy Portfolio in the Electric Power Sector</b>	<ul style="list-style-type: none"> <li>• Model Development</li> <li>• Stakeholder Engagement</li> </ul>
2.	 <b>Diversify Colorado's Transportation Fuels Portfolio</b>	<ul style="list-style-type: none"> <li>• NGV Analysis, MOU, &amp; Pilots</li> <li>• EV &amp; Biofuels Planning</li> </ul>
3.	 <b>Unlock the Potential of Building Energy Efficiency</b>	<ul style="list-style-type: none"> <li>• Res. EE Valuation &amp; Financing</li> <li>• Private Sector EPC Grant</li> <li>• PUC DSM Dockets</li> </ul>
4.	 <b>Support the State's Energy Innovation Ecosystem</b>	<ul style="list-style-type: none"> <li>• Asset Inventory</li> <li>• ARRA Revolving Loan Fund</li> <li>• COIN</li> </ul>
5.	 <b>Increase Access to Energy Information</b>	<ul style="list-style-type: none"> <li>• ReCharge Spin-Out</li> <li>• Website Launch</li> </ul>

ABBREVIATION KEY: NGV=natural gas vehicles, MOU=memorandum of understanding, EV=electric vehicles, EE=energy efficiency, EPC=energy performance contracting, PUC=public utilities commission, DSM=demand side management, ARRA=American Recovery and Reinvestment Act; COIN=Colorado Innovation Network, Res=Residential

## Colorado Clean Energy Development Authority (CEDA)

### Enabling Legislation

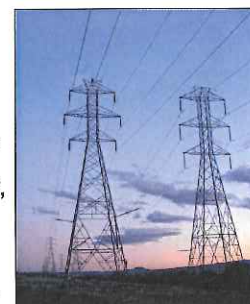
- HB07-1150
- Bill Sponsor: Cory Gardner, Ken Kester.

### Membership

Tanuj Deora, Jeffrey Nathanson, Sam Weaver, Joel Bladow, Walker Stapleton, Ken Lund, Lola Spradley, John Salazar, Lee White.

### Statutory Intent

- The promotion of the economic welfare of the state.
- Utilization of clean energy resources is in the public interest.
- Investment in the production, transportation, transmission, and storage of clean energy.



April 29, 2011 - following input from developers who would be potential beneficiaries of CEDA's assistance, the Board determined that the lack of availability of capital is not a roadblock to investment in electric power transmission.

## Overview

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FY '11

FY '12

**FY '13**

Weatherization Assistance Program

## Proposed Mission (Pending Legislation)

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**JOBS**



**SECURITY**



**COST**



**ENVIRONMENT**

**The Governor's Energy Office advances the state's energy markets and industry to encourage job creation, increase energy security, lower long-term consumer costs, and protect our environment.**

## FY'12-'13: Proposed Initiatives

-  1. A Balanced Energy Portfolio in the Electric Power Market
-  2. Diversifying Colorado's Transportation Fuels Portfolio
-  3. Unlocking the Potential of Building Energy Efficiency
-  4. Developing Transmission for Electricity Markets
-  5. Greening Government
-  6. Public Sector Energy Performance Contracting
-  7. Economic Development through Energy Innovation
-  8. Energy Policy Development

## Utilizing Colorado's Natural Resources



**In an effort to increase energy security, create jobs and protect our environment the GEO works collaboratively with DNR, OEDIT, DOLA and other State agencies on effective measures to utilize Colorado's natural resources and means of traditional energy.**

# Overview

FY '11

FY '12

FY '13

## Weatherization Assistance Program



# Weatherization Mission



JOB



SECURITY



COST



ENVIRONMENT

The GEO Weatherization Assistance Program (WAP) provides income eligible energy efficiency services that result in sustainable economic development in Colorado by advancing the state's energy markets to support job creation, increase energy security, lower long term consumer costs, and protect our environment.



ECONOMIC  
DEVELOPMENT



ENERGY  
EFFICIENCY



# Weatherization Case Study: Ruth



- **Household:** 1 senior
- **Gross annual income:** \$13,805  
(132% Federal Poverty Level)

### Pre-Weatherization

- Gas & Electric Bill: \$276.59
- 24% of gross monthly income
- Unsafe & uncomfortable living conditions

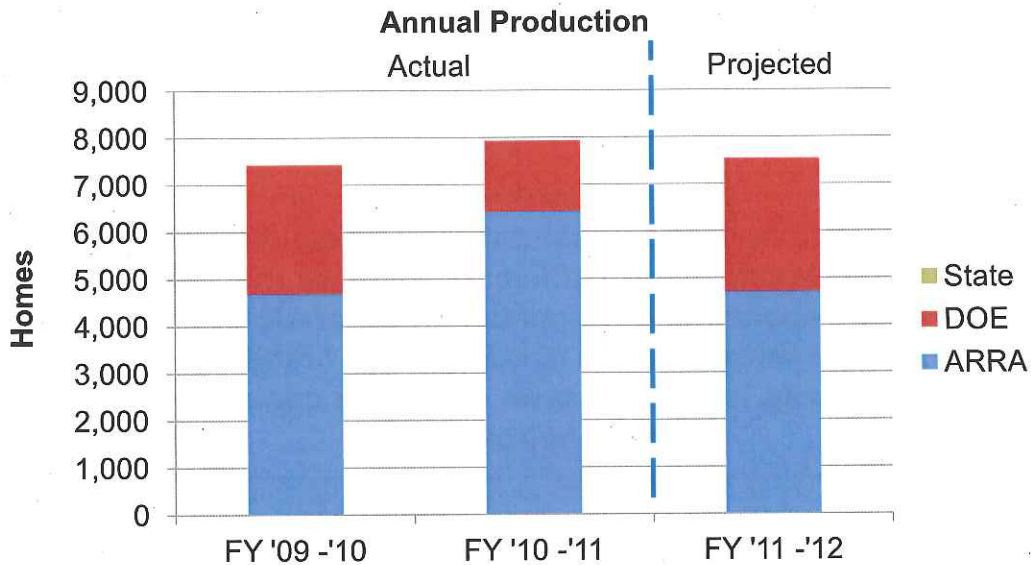
- \$5,400 invested in:**
- Insulation:
    - Ceiling (R9-R38)
    - Wall (R0-R11)
    - Crawl Space (R0-R9)
  - Air sealing
  - .92 Furnace
  - ENERGY Star Refrigerators
  - Compact fluorescent light bulbs
  - Low flow showerhead

### Post-Weatherization

- Gas & Electric Bill: \$159.86
- 13.8% of gross monthly income
- Safe & comfortable living conditions

**Total Season Monthly Savings: \$116.00**

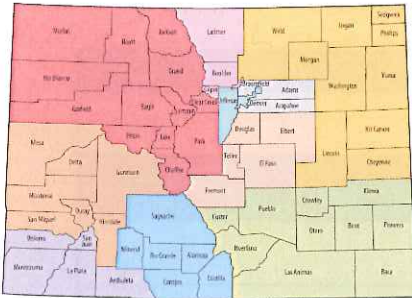
# Weatherization State-Wide Production



Meeting our FY '11-'12 goal at 100% will result in a total of 15,813 homes completed (151% of ARRA Goal)



# Weatherization Sub-Grantees



<p> Northwest Colorado Council of Governments: 1-800-332-3669 <a href="#">Visit the site</a></p>	<p> Energy Resource Center: 719-591-0772 <a href="#">Visit the site</a></p>
<p> Housing Resources of Western Colorado: 970-241-2871 <a href="#">Visit the site</a></p>	<p> Arapahoe County Weatherization Division: 303-636-1982 <a href="#">Visit the site</a></p>
<p> Four Corners Office for Resource Efficiency (4CORE): 970-259-1916 <a href="#">Visit the site</a></p>	<p> Pueblo County Department of Housing and Human Services: 719-583-6110 <a href="#">Visit the site</a></p>
<p> Veterans Green Jobs (VGJ) (San Luis Valley): 719-587-9492 <a href="#">Visit the site</a></p>	<p> Northeastern Colorado Association of Local Governments: 970-867-9409 x 230 Weld County: 970-351-7772</p>
<p> Veterans Green Jobs (VGJ) (Denver): 720-236-1321 <a href="#">Visit the site</a></p>	<p> Longs Peak Energy Conservation: 1-800-200-9006 or 720-864-6401 <a href="#">Visit the site</a></p>

\* Energy Outreach Colorado – Provides multifamily weatherization services state-wide.

# Weatherization Outcomes

Since the start of the ARRA production period, WAP has delivered:



11 subgrantees providing 330 FTE jobs.



Energy efficiency usage reductions of:

- 2,604,000 therms and
- 10,684,800 Kwh



Annual energy cost savings of approximately \$2,260,000 to the income eligible clients.



Annual reduction of 20,500 metric tons of emissions.

# Weatherization Outlook (as of 1 FEB 12)

## Funding Sources & Funding Estimates SFY 2012-2013

Funding Source	FY 2013
Dept of Energy ARRA Grant – Remaining Funds	\$5 mm
Dept of Energy Annual Grant	\$0 – \$1.8 mm
Dept of Energy Carry Forward Funds from previous grants	\$4.5 mm
Federal Funding via LEAP	\$2.3 mm
State Funds*	\$0 - \$6 mm
Utilities	\$3.4 mm
<b>TOTAL BUDGET</b>	<b>\$15 to \$22.8 mm (Approx. 2700-4200 homes)</b>

\*\$6 mm from severance tax revenues currently under consideration in HB12-1028

Final FY'12-'13 funding will be dependent on Congressional funding, Administration allocation formulas, and State Legislative action



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