

### **NOTICE & DISCLAIMER**

In order to provide greater transparency to the public regarding the expenditure of funds authorized by the American Recovery and Reinvestment Act of 2009, the DOE State Energy Program has posted on its public website the ARRA Formula Grant applications submitted by each grantee state and territory.

These applications provide information about the state offices responsible for administering the funds, as well as an overview of how the funds are to be spent.

PLEASE NOTE: The information contained in this ARRA SEP Formula Grant application document may not reflect the final document as approved by DOE. The posted document is subject to change and may have modifications pending.

**APPLICATION FOR FEDERAL ASSISTANCE SF-424**

Version 02

1. Type of Submission:

- Preapplication
- Application
- Changed/Corrected Application

2. Type of Application:

- New
  - Continuation
  - Revision
- If Revision, select appropriate letter(s)  
Other (specify):

3. Date Received

03/23/2009

4. Applicant Identifier:

5a. Fed Entity Identifier:

5b. Federal Award Identifier:

EE00082

**State Use Only:**

6. Date Received by State:

03/23/2009

7. State Application Identifier:

**8. APPLICANT INFORMATION:**

a. Legal Name: STATE OF COLORADO

b. Employer/Taxpayer Identification Number (EIN/TIN):

c. Organizational DUNS:

**d. Address:**

Street 1: 1580 Logan Street, Suite 100

Street 2:

City: Denver

County: Denver

State: CO

Province:

Country: U.S.A.

Zip / Postal Code: 80203-

**e. Organizational Unit:**

Department Name:

Division Name:

Governor's Energy Office

**f. Name and contact information of person to be contacted on matters involving this application:**

Prefix: First Name: Michelle

Middle Name:

Last Name: Losier

Suffix:

Title:

Organizational Affiliation:

Telephone Number: (303)866-2050

Fax Number: (303)866-2930

Email: michelle.losier@state.co.us

**APPLICATION FOR FEDERAL ASSISTANCE SF-424**

Version 02

**9. Type of Applicant:**

A State Government (State)

**10. Name of Federal Agency:**

U. S. Department of Energy

**11. Catalog of Federal Domestic Assistance Number:**

81.041

CFDA Title:

State Energy Program

**12. Funding Opportunity Number:**

DE-FOA-0000052

Title:

RECOVERY SEP FORMULA GRANTS - ARRA

**13. Competition Identification Number:**

Title:

**14. Areas Affected by Project (Cities, Counties, States, etc.):**

Statewide

**15. Descriptive Title of Applicant's Project:**

Recovery State Energy Program



**APPLICATION FOR FEDERAL ASSISTANCE SF-424**

Version 02

**Applicant Federal Debt Delinquency Explanation:**

The following field should contain an explanation if the Applicant is delinquent on any Federal Debt. Maximum number of characters that can be entered is 4,000. Try and avoid extra spaces and carriage returns to maximize the availability of space.

**U.S. DEPARTMENT OF ENERGY  
GOLDEN FIELD OFFICE**



**BUDGET EXPLANATION FOR FORMULA GRANTS**

Applicant: STATE OF COLORADO

Budget period: 04/21/2009 - 04/30/2012

Award number: EE00082

Amendment number: A000

**1. PERSONNEL** - Prime Applicant only (all other participant costs are listed in 6 below and form DOE F 4600.4, Section B. Line 6.f. Contracts and Sub-Grants).

Positions to be supported under the proposed award and brief description of the duties of professionals:

<b>Position</b>	<b>Description of Duties of Professionals</b>
Director	Cabinet level position: conveys overall state policies on behalf of the Governor and mission/vision on behalf of GEO, general management authority for GEO
Deputy Director	Reports to and assists the Director in all functional and programmatic areas. Has oversight over all GEO programs. Establishes/revises operating policies to assure proper internal controls (financial and programmatic). Overall management and supervisory responsibility for GEO's Energy Emergency Planning
Regional Representative - Central	Responsible for promoting general awareness and understanding of GEO programs, projects and initiatives to key individuals and groups in the Central Region of Colorado, in order to leverage local Partners and increase program participation. Also overall management and supervisory responsibility for the GEO's community small wind program
Regional Representative - West	Responsible for promoting general awareness and understanding of GEO programs, projects and initiatives to key individuals and groups in the Western Region of Colorado, in order to leverage local partners and increase program participation. Also overall management and supervisory responsibility for the GEO's geothermal program
Regional Representative - East	Responsible for promoting general awareness and understanding of GEO programs, projects and initiatives to key individuals and groups in the Western Region of Colorado, in order to leverage local partners and increase program participation. Also overall management and supervisory responsibility for the GEO's geothermal program
Regional Representative - South	Responsible for promoting general awareness and understanding of GEO programs, projects and initiatives to key individuals and groups in the Western Region of Colorado, in order to leverage local partners and increase program participation. Also overall management and supervisory responsibility for the GEO's geothermal program
Senior Program Manager - Public Information	Primary public/media contact concerning inquiries. Coordinates press releases, events and other strategies for promoting public awareness of GEO programs, projects and initiatives.
Program Manager - Public Outreach Manager	Assists Senior Communications Manager with coordinating events and other strategies for promoting public awareness of GEO programs, projects and initiatives. Maintains the GEO website and responsible for creation and dissemination of the GEO monthly newsletter
Program Associate Public Outreach	Assists Public Information Team with coordinating events and other strategies for promoting public awareness of GEO program
Contracts Manager	Provides support to program managers regarding contracting. Also provides program management support to various GEO special projects

Contracts Associate	Assist Contracts Manager to provides support to program managagers regarding contracting. Also provides program management support to various GEO special projects
Controller	General accounting for grants management/support functions for GEO
Accounting Associate	Assist Controller in general accounting for grants management/support functions for GEO
Accounting Technician	All general accounting functions: Accounts payable and receivable; purchase orders; journal vouchers; report preparations miscellaneous personnel training (payroll, leave balances, etc)
Office Manager	Provides support to senior staff and program managers; performs general offices functions
Administrative Assistant	Assist Office Manager to provide support to senior staff and program managers; performs general offices functions
Network Administrator	Responsible for maintainbing NT servers, including security and backup data, performing maintenance and troubleshooting on GEO computers, reviewing staff equipment needs, assisting with purchase and installation of equipment, and managing email server
Contracts and Accounting Manager	Responsible for grants/contracts management concerning ESP programs - pcessing awards/amendments; review of financial reports and determination of reimbursement amounts/payment preparation. Prepare quarterly performance and financial reports. Assist accounting department with general accounting functions
Program Manager - Utility	Coordinates involvement in all utilities programs on behalf of the GEO, including implementation of gas demand side managment programs
Program Associate - Utility	Assist Utility Program Manager in coordinating involment in all utilites programs on behalf of the GEO
Commercial Buildings Associate	Assist Commercial Buildings Program Manager with overall management and supervisory of the GEO's Commercial Buildings program
Greening Government Program Manager	Overall management and supervisory responsibility for the GEO's Greening Government Program
Transmission Program Manager	Overall management and supervisory responsibility for the GEO's Transmission program, as it pertains to electric power transimission, including reasearch, analysis, wriiting, presentations, and organizing transmission information for a wide range of audiences
Renewable Energy Program Manager	Overall management and supervisory responsibility of the GEO's Renewable Program
Senior Program Manager - Renewable Energy	Overall management and supervisory responsibility of the GEO's Renewable Energy Program.
Program Associate - Renewable Energy	Assist program manager in overall management and supervisory responsibility of the GEO's Renewable Energy Program
Senior Program Manager - Residential Buildings	Overall management and supervisory responsibility for GEO's Residential Energy Efficiency program
Program Associate - Residential	Assist Senior Residential program manager with overall responsiblity for the GEO's Residential Energy Efficiency program
Program Manager - Finance/Capital Investement	Oversll management and supervisory responsibility for the GEO's Finance/Capital Investments Program

Vacant - Sr. Program Associate - Renewable Energy	Assist program manager in overall management and supervisory responsibility of the GEO's Renewable Energy Program
Program Manager - Local	Overall management and supervisory responsibility of the GEO's Local Program
Community Network Coordinator	Responsible for field-based public outreach. Will work with partnership agencies to develop statewide outreach programs to increase potential client awareness of service and rebate availability.

## Direct Personnel Compensation:

<u>Position</u>	<u>Salary/Rate</u>	<u>Time</u>	<u>Direct Pay</u>
Director	\$409,131.00	50 % FT	\$204,565.50
Deputy Director	\$306,849.00	50 % FT	\$153,424.50
Regional Representative - Central	\$238,659.00	50 % FT	\$119,329.50
Regional Representative - West	\$221,614.00	50 % FT	\$110,807.00
Regional Representative - East	\$221,614.00	50 % FT	\$110,807.00
Regional Representative - South	\$211,060.00	50 % FT	\$105,530.00
Senior Program Manager - Public Information	\$220,675.00	50 % FT	\$110,337.50
Program Manager - Public Outreach Manager	\$173,387.00	55 % FT	\$95,362.85
Program Associate Public Outreach	\$141,863.00	10 % FT	\$14,186.30
Contracts Manager	\$194,824.00	40 % FT	\$77,929.60
Contracts Associate	\$141,863.00	35 % FT	\$49,652.05
Controller	\$236,437.00	40 % FT	\$94,574.80
Accounting Associate	\$163,930.00	35 % FT	\$57,375.50
Accounting Technician	\$136,378.00	40 % FT	\$54,551.20
Office Manager	\$110,337.00	40 % FT	\$44,134.80
Administrative Assistant	\$94,575.00	40 % FT	\$37,830.00
Network Administrator	\$248,807.00	55 % FT	\$136,843.85
Contracts and Accounting Manager	\$173,387.00	15 % FT	\$26,008.05
Program Manager - Utility	\$208,065.00	70 % FT	\$145,645.50
Program Associate - Utility	\$189,150.00	80 % FT	\$151,320.00
Commercial Buildings Associate	\$157,625.00	80 % FT	\$126,100.00
Greening Government Program Manager	\$204,913.00	80 % FT	\$163,930.40
Transmission Program Manager	\$221,614.00	80 % FT	\$177,291.20
Renewable Energy Program Manager	\$221,614.00	80 % FT	\$177,291.20
Senior Program Manager - Renewable Energy	\$272,754.00	80 % FT	\$218,203.20
Program Associate - Renewable Energy	\$157,625.00	80 % FT	\$126,100.00
Senior Program Manager - Residential Buildings	\$220,675.00	60 % FT	\$132,405.00
Program Associate - Residential	\$162,353.00	70 % FT	\$113,647.10
Program Manager - Finance/Capital Investment	\$220,675.00	70 % FT	\$154,472.50
Vacant - Sr. Program Associate - Renewable Energy	\$204,913.00	70 % FT	\$143,439.10
Program Manager - Local	\$236,437.00	40 % FT	\$94,574.80
Community Network Coordinator	\$141,863.00	20 % FT	\$28,372.60
		Direct Pay Total	\$3,556,042.60

**2. FRINGE BENEFITS**

- a. Are the fringe cost rates approved by a Federal Agency? If so, identify the agency and date of latest rate agreement or audit below, and include a copy of the rate agreement.
  
- b. If a above does not apply, indicate the basis for computation of rates, including the types of benefits to be provided, the rate(s) used, and the cost base for each rate. You may provide the information below or provide the calculations as an attachment.

Fringe Benefits Calculations

<u>Position</u>	<u>Direct Pay</u>	<u>Rate</u>	<u>Benefits</u>
Director	\$204,565.50	20.00 %	\$40,913.10
Deputy Director	\$153,424.50	20.00 %	\$30,684.90
Regional Representative - Central	\$119,329.50	20.00 %	\$23,865.90
Regional Representative - West	\$110,807.00	20.00 %	\$22,161.40
Regional Representative - East	\$110,807.00	20.00 %	\$22,161.40
Regional Representative - South	\$105,530.00	20.00 %	\$21,106.00
Senior Program Manager - Public Information	\$110,337.50	20.00 %	\$22,067.50
Program Manager - Public Outreach Manager	\$95,362.85	20.00 %	\$19,072.57
Program Associate Public Outreach	\$14,186.30	20.00 %	\$2,837.26
Contracts Manager	\$77,929.60	20.00 %	\$15,585.92
Contracts Associate	\$49,652.05	20.00 %	\$9,930.41
Controller	\$94,574.80	20.00 %	\$18,914.96
Accounting Associate	\$57,375.50	20.00 %	\$11,475.10
Accounting Technician	\$54,551.20	20.00 %	\$10,910.24
Office Manager	\$44,134.80	20.00 %	\$8,826.96
Administrative Assistant	\$37,830.00	20.00 %	\$7,566.00
Network Administrator	\$136,843.85	20.00 %	\$27,368.77
Contracts and Accounting Manager	\$26,008.05	20.00 %	\$5,201.61
Program Manager - Utility	\$145,645.50	20.00 %	\$29,129.10
Program Associate - Utility	\$151,320.00	20.00 %	\$30,264.00
Commercial Buildings Associate	\$126,100.00	20.00 %	\$25,220.00
Greening Government Program Manager	\$163,930.40	20.00 %	\$32,786.08
Transmission Program Manager	\$177,291.20	20.00 %	\$35,458.24
Renewable Energy Program Manager	\$177,291.20	20.00 %	\$35,458.24
Senior Program Manager - Renewable Energy	\$218,203.20	20.00 %	\$43,640.64
Program Associate - Renewable Energy	\$126,100.00	20.00 %	\$25,220.00
Senior Program Manager - Residential Buildings	\$132,405.00	20.00 %	\$26,481.00
Program Associate - Residential	\$113,647.10	20.00 %	\$22,729.42
Program Manager - Finance/Capital Investment	\$154,472.50	20.00 %	\$30,894.50
Vacant - Sr. Program Associate - Renewable Energy	\$143,439.10	20.00 %	\$28,687.82
Program Manager - Local	\$94,574.80	20.00 %	\$18,914.96
Community Network Coordinator	\$28,372.60	20.00 %	\$5,674.52
		Fringe Benefits Total	\$711,208.52

**3. TRAVEL** - Identify total foreign and domestic travel as separate items.

- a. Proposed travel:

<u>Purpose of Trip</u>	<u>Number of Trips</u>	<u>Cost Per Trip</u>	<u>Total</u>
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General Admin - Regional Rep - West - funds will be used for travel and general admin expenditures @ \$30K/year	3	\$26,100.00	\$78,300.00
General admin - Regional Rep - East - funds will be used for travel and general admin expenditures @ \$30K/year	3	\$26,100.00	\$78,300.00
General admin - Regional Rep - South - funds will be used for travel and general admin expenditures @ \$30K/year	3	\$26,100.00	\$78,300.00
General admin - Regional Rep - Central - funds will be used for travel and general admin expenditures @ \$30K/year	3	\$26,100.00	\$78,300.00
General admin - Director, Deputy Director, to attend out of state conference	15	\$1,800.00	\$27,000.00
General admin - Director, Deputy Director, in state single travels	132	\$150.00	\$19,800.00
Colorado Electric and Gas Utilites - in state travel (2 employees)	170	\$150.00	\$25,500.00
Colorado Electric and Gas Utilities - Out of state conferences (2 employees)	4	\$1,800.00	\$7,200.00
Commercial Buildings - In state conferences (2 days each @ \$300/trip)	9	\$300.00	\$2,700.00
Commercial Buildings - In state site visit and presentations to agencies (3 days each @ \$450/trip)	18	\$450.00	\$8,100.00
Commercial Buildings - In state site visits single day	72	\$150.00	\$10,800.00
Commercial Buildings - In-state site visits for program implementation	6	\$1,800.00	\$10,800.00
HP Buildings - National conferences (USGBC Greenbuild, ASHRAE, + 1 tbd)	9	\$1,800.00	\$16,200.00
HP Building - In-state site visits for outreach efforts and ensure oversight of program implementation	48	\$150.00	\$7,200.00
HP Buildings - In-state single day site visits within 3 hour drive (1 per month)	36	\$150.00	\$5,400.00
Greening Government - In-state site visits for program development and implementation	17	\$150.00	\$2,550.00
RE - Solar Events - GEO representation at community and out of state workshops, events, conferences, tbd	4	\$1,800.00	\$7,200.00
Public Information - Travel to partners in the field/media tours	126	\$150.00	\$18,900.00
Public Information - Out of state to behavior change conference	8	\$1,800.00	\$14,400.00
RE - Solar - In-state site visits for program implementation	8	\$150.00	\$1,200.00
RE - Wind Events - GEO representation at community and out of state workshops, events, conferences, tbd	4	\$1,800.00	\$7,200.00
RE - Wind - In-state site visits for program implementation	8	\$150.00	\$1,200.00
RE - Geothermal Events - GEO representation at community and out of state workshops, events, conferences, tbd	4	\$1,800.00	\$7,200.00
RE - Geothermal - In-state site visits for program implementation	8	\$150.00	\$1,200.00
RE - Biomass Events - GEO representation at community and out of state workshops, events, conferences, tbd	4	\$1,800.00	\$7,200.00
RE - Biomass - In-state site visits for program implementation	8	\$150.00	\$1,200.00
RE - Small Hydro Events - GEO representation at community and out of state workshops, events, conferences, tbd	4	\$1,800.00	\$7,200.00
RE - Other events and in state trips	8	\$150.00	\$1,200.00
RE - Other events out of state tbd	8	\$1,800.00	\$14,400.00
RE - Other in-state site visits for program implementation	4	\$150.00	\$600.00

Residential Buildings - Visits to all partners, HBA's, HERS raters, and other groups - Crucial to provide support and local community presence pertains to code adoption for residential buildings	96	\$150.00	\$14,400.00
Residential Buildings - Energy Codes conference hosted by DOE	1	\$1,800.00	\$1,800.00
Residential Buildings - RESNET conference - Covers developments in the HERS rating industry	1	\$1,800.00	\$1,800.00
Residential Buildings - Excellence in Building conference - Covers building performance education through EEBA	1	\$1,800.00	\$1,800.00
Residential Buildings - Affordable Comfort Institute conference	1	\$1,800.00	\$1,800.00
Transmission - out of state travel/conference	9	\$1,800.00	\$16,200.00
Transmission - in state travel	6	\$150.00	\$900.00
		Travel Total	\$585,450.00

**4. EQUIPMENT** - As defined in 10 CFR 660.202. Definitions are at [http://www.access.gpo.gov/nara/cfr/waisidx\\_00/10cf](http://www.access.gpo.gov/nara/cfr/waisidx_00/10cf)

a. Basis of cost estimates (e.g., vendor quotes, prior purchases of similar or like items, etc.):

b. Equipment to be purchased and justification of need:

<u>Equipment</u>	<u>Unit Cost</u>	<u>Number</u>	<u>Total Cost</u>	<u>Justification of Need</u>
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**5. MATERIALS AND SUPPLIES** - As defined in 10 CFR 660.202.

a. Basis cost estimates (e.g., vendor quotes, prior purchases of like items, etc.):

b. Supplies to be purchased and justification of need:

<u>General Category</u>	<u>Cost</u>	<u>Justification of Need</u>
Computer and other office supplies	\$2,500.00	Residential Buildings - Desktop or laptop for new hire
Desk/chair	\$1,350.00	Commercial Buildings - New hire
LCD Projector	\$1,600.00	Colorado Electric and Gas Utilities
LCD Projector	\$1,000.00	Transmission
Computer	\$1,900.00	Renewable Energy - desktop or laptop for new hire
Computer	\$1,900.00	Commercial Buildings - New hire
Computer	\$1,950.00	Colorado Electric and Gas Utilities
Materials and Supplies Total	\$12,200.00	

**6. CONTRACTS AND SUBGRANTS** - All other participant costs including subcontractor sub-grants, and consultants

For ongoing subcontractors and sub recipients described elsewhere in the application, document and item number is listed.

<u>Name of Proposed Sub</u>	<u>Total Cost</u>	<u>Basis of Cost*</u>
TBD	\$0.00	Capital Investment - Debt Financing - deleted

TBD	\$20,500.00	Public Information/Transmission REDI DVD - Highlights Colorado's substantial utility scale RE and Transmission accomplishments
TBD	\$21,000.00	Commercial Buildings - Financial and technical support for student projects
TBD	\$88,000.00	Public Information - Event sponsorships to state wide communities
Trident and Nexant - Existing Vendor	\$157,500.00	Commercial Buildings - Support for EE in historic buildings
Ambient Energy and Hutton Architecture Studios - Existing Vendor	\$20,000.00	High Performance Buildings - HP case studies
TBD	\$741,412.00	Commercial Buildings - Main Street Energy Programs
TBD	\$523,750.00	Renewable Energy - Rebates and Grants Program Administrator
TBD	\$125,000.00	Public Information - Access to information website
TBD	\$147,000.00	Commercial Buildings - EM/Teacher training & education
AG Office and other	\$75,000.00	Commercial Buildings - Technical Energy audit and PC contract modeling
TBD	\$6,000.00	Public Information/HP Buildings - Marketing to K-12 school districts
TBD	\$871,000.00	Renewable Energy - Consultants
TBD	\$20,000.00	Public Information - Data gathering and database maintenance
TBD	\$200,000.00	Renewable Energy - workforce training
TBD	\$130,000.00	Public Information - Outreach special projects - video/photo contest, project porchlight, workshops, green home tours, neighborhood sweeps
TBD	\$960,000.00	Renewable Energy - New Energy Development Team
TBD	\$40,000.00	Public Information/Transmission - publications
Trident and Nexant - Existing Vendors	\$1,129,683.00	Commercial Buildings - Third party consultant review of EPC and provide expertise
Ambient Energy and Hutton Architecture Studios - Existing Vendor	\$255,000.00	High Performance Buildings - Develop HPD tools and best practices
TBD	\$20,000.00	Public Information/Residential - Energy conference marketing
Trident and Nexant - Existing Vendors	\$4,200.00	Commercial Buildings - Best Practice/Energy Checklist for Energy Management
TBD	\$12,000.00	Public Information/EPC - Case studies, promote EPC in commercial Buildings
TBD	\$25,000.00	Colorado Electric and Gas Utilities - CAP update
TBD	\$250,000.00	Greening Government - Energy Performance Contracts - for additional measures
TBD	\$20,000.00	Public Information/RE - marketing for commercial buildings
TBD	\$50,000.00	Public Information/Residential - Home Design Book marketing
AG's Office and others TBD	\$65,000.00	Renewable Energy - Legal services, expert witness and statutory issues
Ambient Energy and Hutton Architecture Studios - Existing Vendor	\$188,040.00	High Performance Buildings - K-12 Facilities Management Program

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TBD	\$6,000.00	Public Information/HP Buildings - Marketing to local governments
TBD	\$20,000.00	Public Information/HP Buildings - Video case studies etc
TBD	\$50,000.00	Public Information/Colorado Electric and Gas Utilities - Colorado Utilities Report
TBD	\$277,000.00	Commercial Buildings - RE Ready school installation - K12 emergency shelter
TBD	\$20,000.00	Public Information/RE - Curriculum for educators
TBD	\$100,000.00	Public Information/RE - Eco Deveo video
TBD	\$1,535,000.00	Residential Buildings - Energy Codes and Above Code Resouces
TBD	\$2,173,350.00	Capital Investment - Renewable Energy Finance
TBD	\$0.00	Public Information/RE - Printing
TBD	\$15,000.00	Public Information/RE - Video production for case study vignettes, rebate announcements and advertising
TBD	\$555,000.00	Residential Buildings - Rebates and Resources
TBD	\$36,000.00	Transmission - Implementation of REDI project report
TBD	\$11,000,000.00	Capital Investment - Revolving Loan
TBD	\$275,000.00	Colorado Electric and Gas Utilities- Expert withness, service retainer (model contract), AG office
TBD	\$2,455,700.00	Residential Buildings - Energy Efficiency program
TBD	\$15,000.00	Colorado Electric and Gas Utilities - DSM program development and coordination
TBD	\$7,500.00	Colorado Electric and Gas utilities - CAP for public utilities - Report
TBD	\$60,000.00	High Performance Buildings - Regional Green Building Program
Trident and Nexant - Existing Vendors	\$21,000.00	Commercial Buildings - Provide market/regional/topic specific training or presentations
TBD	\$175,000.00	High Performance Buildings - Targeted Financial Incentives and Grants
TBD	\$5,000.00	Public Information/Residential - Kill-A-Wall Loan program marketing
AG's Office	\$7,200.00	High Performance Buildings - legal from AG's Office
TBD	\$4,000,000.00	Capital Investment - New Energy Economy Development (NEED)
TBD	\$0.00	Capital Investment - Capital Development - deleted
TBD	\$5,790,500.00	Renewable Energy - Rebates and Grants (solar, biomass, geothermal other)
TBD	\$4,000.00	Transmission - workshop organizer
CASDEM, CESFG, AEE, ESC and others TBD	\$12,600.00	Commercial Buildings - Support to Energy Managers (CASDEM, CESG, AEE, ESC) - special projects
TBD	\$100,000.00	Renewable Energy - REDG Study
Ambient Energy and Hutton Architecture Studios - Existing Vendor	\$200,000.00	High Performance Buildings - Organize, plan and administer training and education programs

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TBD	\$80,950.00	Public Information/Residential - ESHN marketing
TBD	\$15,000.00	Colorado Electric and Gas Utilities - Smart Grid Consortium
Trident and Nexant - Existing Vendors	\$52,500.00	Commercial Buildings - EPC/HPD commercial database upkeep and improvements - provides invaluable information on individual projects
TBD	\$7,500.00	Public Information/HP Buildings - Booth desing
TBD	\$615,413.00	Capital Investment - CREED
TBD	\$348,690.00	Public Information/Residential - EE programs marketing
TBD	\$30,000.00	Public Information/Greening Government - Outreach to state employees
Ambient Energy and Hutton Architecture Studios - Existing Vendor	\$1,455,204.00	High Performance Buildings - Technical assistance to agencies for EE, HP buildings
Trident and Nexant - Existing Vendors	\$12,600.00	Commercial Buildings - Develop case studies of energy efficiency projects including EOC, recommissioning, and energy mgmt. Promote award or recognition events for leaders EE
TBD	\$80,000.00	Colorado Electric and Gas - Energy data management, labor and design
TBD	\$10,000.00	Public Information/Residential - Outreach materials
TBD	\$150,000.00	Public Information - Community Network grants to partners, workshops, presentations, community group outreach
TBD	\$2,793,400.00	Public Information - Acces to information marketing
TBD	\$36,000.00	Transmission - Expand utility-scale renewable enrgy projects and transmission aimed at creting an aggregated, liquied, regional, renewable energy market
TBD	\$5,000.00	Public Information/Colorado Electric and Gas Utilities - CAP report marketing
Lake Region Distribution and Colorado Correctional Industries	\$50,000.00	Greening Government - Rerigerator decommissioning
Trident and Nexant - Existing Vendors	\$48,000.00	Commercial Buildings - R&D of state legislation to implement EE equipment
TBD	\$7,000.00	Public Information/Colorado Electric and Gas Utilities - Strategic Energy Plan printing
USGBC and others TBD	\$115,500.00	Commercial Buildings - Support for building certifications (LEED EB O&M)
TBD	\$473,183.00	Commercial Buildings - Provide Energy Managers to small school districts through the BOCES model.
TBD	\$2,000.00	Greening Government - Set up account to collect utility rebates and incentives for state agencies unable to receive them
TBD	\$200,000.00	Greening Government - Power Managment tool - 1 license per desktop @ 25/license
TBD	\$260,000.00	Public Information - Call Center
Logan Tower - Existing Vendor	\$281,913.00	General Admin - Office Space/Rent
TBD	\$844,500.00	Residential Buildings - Energy Star New Homes
TBD	\$492,713.00	General Admin - M&V for all programs

TBD	\$150,000.00	Public Information - General website maintenance
TBD	\$36,000.00	Transmission - Produce publication or publications - how utilities and RE developers can build new high voltage transmission lines in optimal locations defined by REDI report
TBD	\$7,500.00	Public Information/Colorado Electric and Gas Utilities - CAP report printing
TBD	\$18,000.00	Public Information/EPC - Marketing to K-12 schools
TBD	\$10,000.00	Transmission - conference organizer for summits
Trident and Nexant - Existing Vendor	\$16,349.00	Commercial Buildings - Data collection, energy management
TBD	\$56,610.00	Commercial Buildings - Utility bill management (collection/aggregation of date)
TBD	\$7,500.00	Public Information/Colorado Electric and Gas Utilities - Utilities Report printing
TBD	\$125,000.00	Renewable Energy - working groups
TBD	\$100,000.00	Renewable Energy - working group associate
TBD	\$36,000.00	Transmission - Produce a publication or publications - effective cost allocation methods and protocols
Contracts and Subgrants Total		\$44,110,960.00

\*For example, Competitive, Historical, Quote, Catalog

7. **OTHER DIRECT COSTS** - All direct costs not included in above categories

a. Basis for cost estimates (e.g., vendor quotes, prior purchase of similar items, etc.):

b. Other direct costs and justification of need:

<u>General Description</u>	<u>Cost</u>	<u>Justification of Need</u>
General Admin	\$14,100.00	NASEO - Dues and Registrations
General Admin	\$60,338.88	Office Phones and Conference Services
Colorado Electric and Gas Utilities	\$6,100.00	Cell phone voice and data for 2 employees
Colorado Electric and Gas Utilities	\$30,000.00	Energy Policy workshops
Colorado Electric and Gas Utilities	\$10,000.00	Attend Technical training
Commercial Buildings	\$2,700.00	ESCOs, CO School District and Colorado Energy Strategy Group to attend networking learning events
Commercial Buildings	\$5,400.00	Attend networking events
Commercial Buildings	\$900.00	Attend USGBC and other local conferences
Commercial Buildings	\$3,600.00	Memberships to professional Organizations, AEE, ASHREA and other
Commercial Buildings	\$2,160.00	Cell phone
High Performance Buildings	\$3,000.00	Colorado USGBC Registration/Conference in state @ \$1000/year
High Performance Buildings	\$3,000.00	ASHRAE regional conference in state @ \$1000/year
High Performance Buildings	\$1,500.00	AIA Cote Events - related to HP design and Green Building
High Performance Buildings	\$1,800.00	Colorado School Plant Managers Association (CSPMA) - in state Event/Conference

High Performance Buildings	\$1,440.00	Cell phone voice and data service
High Performance Buildings	\$4,350.00	Memberships to CHPS, USGBC, ASHRAE, CASBO, CASB
Greening Government	\$3,060.00	Cell phone voice and data service
Greening Government	\$1,500.00	GEO off site conference for Greening Government Coordinating Council
Greening Government	\$6,000.00	Membership - USGBC (3 year)
Greening Government	\$200.00	Quarterly meeting for program development and implementation
Public Information	\$10,000.00	In state conference registrations, and attendance
Public Information	\$6,050.00	Townhall meetings
Renewable Energy	\$5,940.00	Cell phone, voice and date for 3 employees
Renewable Energy	\$40,000.00	Regional Renewable Energy workshops
Renewable Energy	\$2,500.00	Publication subscriptions to biocycle, biomass, renewable energy and distributed generation and others TBD
Renewable Energy	\$3,000.00	Memberships to cres, dccc, awea and others TBD
Residential Buildings	\$5,000.00	Energy Star summit
Residential Buildings	\$6,000.00	Workshop/conferences/trainings - TBD
Residential Buildings	\$2,000.00	Continuing education to keep staff current with trends and education
Residential Buildings	\$4,500.00	Cell phone voice and data for 2 employees
Other Direct Costs Total	\$246,138.88	

**8. INDIRECT COSTS**

a. Are the indirect cost rates approved by a Federal agency? If so, identify the agency and date of latest rate agreement or audit and provide a copy of the rate agreement.

b. If the above does not apply, indicate the basis for computation of rates, including the types of benefits to be provided, the rate(s) used, and the cost base for each rate. You may provide the information below or provide the calculations separately.

The name and phone number of the individual responsible for negotiating the State's indirect cost rates.

Name:

Phone Number: ( ) -

## Federal Assistance Budget Information

**OMB Burden Disclosure Statement**

Public reporting burden for this collection of information is estimated to average 1.87 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Office of Information Resources Management Policy, Plans and Oversight, Records Management Division, HR-422 - GTN, Paperwork Reduction Project (1910-0400), U.S. Department of Energy, 1000 Independence Avenue, S.W., Washington, DC 20585; and to the Office of Management and Budget (OMB), Paperwork Reduction Project (1910-0400), Washington, DC 20503.

1. Program/Project Identification No. Amendment number:	EE00082 A000	2. Program/Project Title Recovery State Energy Program
3. Name and Address	STATE OF COLORADO 1580 Logan Street, Suite 100 Denver CO 80203-	4. Program/Project Start Date 04/21/2009
		5. Completion Date 04/30/2012

**SECTION A - BUDGET SUMMARY**

Grant Program Function or Activity (a)	Federal Catalog No. (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. DOE	81.041	\$ 0.00		\$ 49,222,000.00		\$ 49,222,000.00
2. GRANTEE			\$ 0.00		\$ 0.00	\$ 0.00
3.						
4.						
5. TOTALS		\$ 0.00	\$ 0.00	\$ 49,222,000.00	\$ 0.00	\$ 49,222,000.00

**SECTION B - BUDGET CATEGORIES**

6. Object Class Categories	Grant Program, Function or Activity				Total (5)
	(1)	DOE	(2)	(3)	
a. Personnel		\$ 3,556,042.60			\$ 3,556,042.60
b. Fringe Benefits		\$ 711,208.52			\$ 711,208.52
c. Travel		\$ 585,450.00			\$ 585,450.00
d. Equipment		\$ 0.00			\$ 0.00
e. Supplies		\$ 12,200.00			\$ 12,200.00
f. Contractual		\$ 44,110,960.00			\$ 44,110,960.00
g. Construction		\$ 0.00			\$ 0.00
h. Other		\$ 246,138.88			\$ 246,138.88
i. Total Direct Charges		\$ 49,222,000.00			\$ 49,222,000.00
j. Indirect Charges		\$ 0.00			\$ 0.00
k. Totals		\$ 49,222,000.00			\$ 49,222,000.00
7. Program Income		\$ 0.00			\$ 0.00

**BUDGET INFORMATION - Non-Construction Programs**

1. Program/Project Identification No. Amendment number:	EE00082 A000	2. Program/Project Title Recovery State Energy Program
3. Name and Address	STATE OF COLORADO 1580 Logan Street, Suite 100 Denver CO 80203-	4. Program/Project Start Date 04/21/2009
		5. Completion Date 04/30/2012

**SECTION A - BUDGET SUMMARY**

Grant Program Function or Activity (a)	Federal Catalog No. (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. DOE	81.041	\$ 0.00		\$ 49,222,000.00		\$ 49,222,000.00
2. GRANTEE			\$ 0.00		\$ 0.00	\$ 0.00
3.						
4.						
5. TOTALS		\$ 0.00	\$ 0.00	\$ 49,222,000.00	\$ 0.00	\$ 49,222,000.00

**SECTION B - BUDGET CATEGORIES**

6. Object Class Categories	Grant Program, Function or Activity				Total (5)
	(1)	DOE	(2)	(3)	
a. Personnel		\$ 3,556,042.60			\$ 3,556,042.60
b. Fringe Benefits		\$ 711,208.52			\$ 711,208.52
c. Travel		\$ 585,450.00			\$ 585,450.00
d. Equipment		\$ 0.00			\$ 0.00
e. Supplies		\$ 12,200.00			\$ 12,200.00
f. Contractual		\$ 44,110,960.00			\$ 44,110,960.00
g. Construction		\$ 0.00			\$ 0.00
h. Other		\$ 246,138.88			\$ 246,138.88
i. Total Direct Charges		\$ 49,222,000.00			\$ 49,222,000.00
j. Indirect Charges		\$ 0.00			\$ 0.00
k. Totals		\$ 49,222,000.00			\$ 49,222,000.00
7. Program Income		\$ 0.00			\$ 0.00

DOE F 540.1  
(08/05)

# U.S. Department of Energy STATE ENERGY PROGRAM (SEP) NARRATIVE INFORMATION WORKSHEET

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

(Grant Number: EE00082)

Market Title: Administrative Programs Support

1. Market (choose one):

<input type="checkbox"/> Buildings	<input type="checkbox"/> Industry
<input type="checkbox"/> Electric Power and Renewable Energy	<input checked="" type="checkbox"/> Policy, Planning and Energy Security
<input type="checkbox"/> Energy Education	<input type="checkbox"/> Transportation

2. State: CO

3. Program Year: 2009

Date Start: 07/01/2009 Date End: 04/30/2012

4. Topics Involved in the Overall Program Market (choose all that apply):

<input checked="" type="checkbox"/> Agriculture	<input type="checkbox"/> Federal Energy Management Program	<input type="checkbox"/> Procurement of efficient products **
<input checked="" type="checkbox"/> Alternative Fuels	<input checked="" type="checkbox"/> Federal, state and local facilities	<input checked="" type="checkbox"/> Public information
<input type="checkbox"/> Appliance efficiency and standards	<input type="checkbox"/> Financing energy programs	<input type="checkbox"/> Rating and labeling
<input type="checkbox"/> Bioenergy and biobased products	<input type="checkbox"/> Fuel cells	<input checked="" type="checkbox"/> Rebuild America
<input checked="" type="checkbox"/> Biomass Power	<input checked="" type="checkbox"/> General energy efficiency for industry	<input checked="" type="checkbox"/> Residential buildings
<input checked="" type="checkbox"/> Building America	<input checked="" type="checkbox"/> Geothermal	<input type="checkbox"/> Right turn on red **
<input type="checkbox"/> Carpools, vanpools, and ridesharing **	<input checked="" type="checkbox"/> Green power programs	<input checked="" type="checkbox"/> Schools
<input checked="" type="checkbox"/> Clean Cities	<input type="checkbox"/> Heavy vehicles and trucks	<input checked="" type="checkbox"/> Solar power
<input type="checkbox"/> Climate change planning	<input checked="" type="checkbox"/> Home energy ratings	<input type="checkbox"/> State energy strategic plans
<input checked="" type="checkbox"/> Combined heat and power	<input type="checkbox"/> Hydrogen	<input type="checkbox"/> Telecommuting
<input checked="" type="checkbox"/> Commercial buildings	<input type="checkbox"/> Hydropower	<input checked="" type="checkbox"/> Thermal **
<input type="checkbox"/> Curriculum development	<input type="checkbox"/> Industrial processing	<input type="checkbox"/> Traffic signals
<input checked="" type="checkbox"/> Demand reduction	<input type="checkbox"/> Industries of the future	<input type="checkbox"/> Transmission and infrastructure reliability
<input checked="" type="checkbox"/> Distributed energy generation	<input type="checkbox"/> Lighting **	<input checked="" type="checkbox"/> Transportation alternatives
<input checked="" type="checkbox"/> Energy and environment	<input type="checkbox"/> Low-income Weatherization	<input type="checkbox"/> Waste management and recycling
<input checked="" type="checkbox"/> Energy building codes	<input type="checkbox"/> Manufacturing	<input type="checkbox"/> Water systems
<input type="checkbox"/> Energy consumption and price statistics	<input type="checkbox"/> Motors and other industrial systems	<input checked="" type="checkbox"/> Wind energy
<input checked="" type="checkbox"/> Energy emergency planning	<input checked="" type="checkbox"/> Performance contracting	
<input checked="" type="checkbox"/> ENERGY STAR	<input checked="" type="checkbox"/> Policy and energy legislation	

5. Estimated Annual Energy Savings : 0.00 MBtus

6. Description (executive summary of goals and objectives)\* :

Operational support (accounting/internal control; auditing; reporting; computer networking; procurement; contracting: etc) of project activities, allowing project efforts to concentrate on performance milestones and energy savings targets. Also includes monitoring of subcontractor performance and expenditures and other interactions with subcontractors and other stakeholders pertinent to achieving performance milestones.

As a critical function in support of all of Colorado's SEP projects, this project area indirectly supports attainment of all SEP Strategic Plan goals.

GEO expects SEP - ARRA funds to be leveraged, and will be reported on a quarterly basis.

DOE F 540.1  
(08/05)

**U.S. Department of Energy**  
**STATE ENERGY PROGRAM (SEP)**  
**NARRATIVE INFORMATION WORKSHEET**

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

(Grant Number: EE00082)

Market Title: Administrative Programs Support

## 7. Program Year Milestones\* :

	Milestone	Planned (Number)
1	Review internal controls/procedures for compliance	3
2	Establish project budgets and expenditure authority for all SEP projects	10
3	Solicit/review proposals; negotiate/award contracts	20
4	Financial accounting/expenditure review (monthly) Prepare/maintain accounting records	36
5	Report preparation/submittal	4

## 8. Standard metrics (required)\*\*

	Planned
<b>JOB METRICS</b>	
<b>Job Creation</b>	
<b>Jobs created through Recovery Act funds</b>	
Jobs created	0

## 9. Specific metric activity (required)\*\*

	Planned
<b>SPECIFIC METRICS</b>	
<b>Workshops, Training, and Education</b>	
<b>Workshops, training, and education sessions, by sector</b>	
Number of workshops, training, and education sessions held (All sectors)	1
Number of people attending (All sectors)	1

## 10. User specified metrics (optional)\*

	Planned
<b>METRICS</b>	

## 11. Program Year Funds by Source\*

a. SEP Grant (all funds in the approved budget)	
DOE	\$2,871,749.00
<b>Market Budget Total</b>	<b>\$2,871,749.00</b>
b. Leveraged funds anticipated (outside approved budget)	

DOE F 540.1  
(08/05)

# U.S. Department of Energy STATE ENERGY PROGRAM (SEP) NARRATIVE INFORMATION WORKSHEET

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

**(Grant Number: EE00082 )**

Market Title: Capital Investments

1. Market (choose one):

<input type="checkbox"/> Buildings <input checked="" type="checkbox"/> Electric Power and Renewable Energy <input type="checkbox"/> Energy Education	<input type="checkbox"/> Industry <input type="checkbox"/> Policy, Planning and Energy Security <input type="checkbox"/> Transportation
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2. State: CO

3. Program Year: 2009

Date Start: 07/01/2009    Date End: 04/30/2012

4. Topics Involved in the Overall Program Market (choose all that apply):

<input type="checkbox"/> Agriculture <input type="checkbox"/> Alternative Fuels <input checked="" type="checkbox"/> Appliance efficiency and standards <input checked="" type="checkbox"/> Bioenergy and biobased products <input checked="" type="checkbox"/> Biomass Power <input checked="" type="checkbox"/> Building America <input type="checkbox"/> Carpools, vanpools, and ridesharing ** <input type="checkbox"/> Clean Cities <input type="checkbox"/> Climate change planning <input checked="" type="checkbox"/> Combined heat and power <input checked="" type="checkbox"/> Commercial buildings <input type="checkbox"/> Curriculum development <input checked="" type="checkbox"/> Demand reduction <input checked="" type="checkbox"/> Distributed energy generation <input type="checkbox"/> Energy and environment <input type="checkbox"/> Energy building codes <input type="checkbox"/> Energy consumption and price statistics <input type="checkbox"/> Energy emergency planning <input type="checkbox"/> ENERGY STAR	<input type="checkbox"/> Federal Energy Management Program <input checked="" type="checkbox"/> Federal, state and local facilities <input checked="" type="checkbox"/> Financing energy programs <input type="checkbox"/> Fuel cells <input type="checkbox"/> General energy efficiency for industry <input checked="" type="checkbox"/> Geothermal <input checked="" type="checkbox"/> Green power programs <input type="checkbox"/> Heavy vehicles and trucks <input checked="" type="checkbox"/> Home energy ratings <input type="checkbox"/> Hydrogen <input checked="" type="checkbox"/> Hydropower <input type="checkbox"/> Industrial processing <input checked="" type="checkbox"/> Industries of the future <input checked="" type="checkbox"/> Lighting ** <input type="checkbox"/> Low-income Weatherization <input checked="" type="checkbox"/> Manufacturing <input checked="" type="checkbox"/> Motors and other industrial systems <input checked="" type="checkbox"/> Performance contracting <input type="checkbox"/> Policy and energy legislation	<input type="checkbox"/> Procurement of efficient products ** <input type="checkbox"/> Public information <input type="checkbox"/> Rating and labeling <input type="checkbox"/> Rebuild America <input type="checkbox"/> Residential buildings <input type="checkbox"/> Right turn on red ** <input type="checkbox"/> Schools <input checked="" type="checkbox"/> Solar power <input type="checkbox"/> State energy strategic plans <input type="checkbox"/> Telecommuting <input checked="" type="checkbox"/> Thermal ** <input type="checkbox"/> Traffic signals <input type="checkbox"/> Transmission and infrastructure reliability <input type="checkbox"/> Transportation alternatives <input type="checkbox"/> Waste management and recycling <input checked="" type="checkbox"/> Water systems <input checked="" type="checkbox"/> Wind energy
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5. Estimated Annual Energy Savings : 17,788.00 MBtus

6. Description (executive summary of goals and objectives)\* :

DOE F 540.1  
(08/05)

**U.S. Department of Energy**  
**STATE ENERGY PROGRAM (SEP)**  
**NARRATIVE INFORMATION WORKSHEET**

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

(Grant Number: EE00082 )

Market Title: Capital Investments

The Colorado Governor's Energy Office (GEO) will commit funds from the State Energy Program allocation for the purposes of providing a suite of products aimed at removing financial barriers to rapid deployment of renewable energy and energy efficiency in the State of Colorado. Providing access to short term and intermediate low cost capital will address a significant market barrier within the State of Colorado for renewable energy and energy efficiency projects within the commercial and residential and industrial sectors. The purpose of the Capital Investment Program will be to provide a range of products that will provide a sustainable pool of capital, leverage further investment dollars, and accelerate the deployment of renewable energy and energy efficiency projects throughout the state.

**Funding Restrictions:**

Funds within the Capital Investment Program will adhere to the ARRA funding restrictions. Renewable energy projects will be non-utility scale, on-site renewable systems. All technologies must be commercially available and not pilot or research and development oriented. Finally, new construction projects will not be eligible for Capital Investment Program funds as this is a state SEP restriction. Examples of projects that will qualify for program funds are energy efficiency retrofits and on-site renewable energy systems.

The Capital Investment program will be subdivided into **three** major project categories. These categories are listed below with a brief description:

➤ **THIS DEBT FINANCING PROJECT WAS DELETED - \$8M WAS ADDED TO REVOLVING LOAN; \$1M TO NEED.**

*Debt Financing: (\$9,000,000)*

- *The debt financing project will deploy SEP funds for the purposes of easing credit conditions for direct investment in renewable energy and energy efficiency measures. The current state of the credit market has increased risk aversion and general market barriers to accessing capital for the upfront costs of projects. The debt financing program will focus on a leveraged partnership that will provide gap financing for a variety of clean energy technology projects.*

➤ **New Energy Economy Development: (NEED): \$4,000,000 (was \$3,000,000)**

- This grants program will infuse ARRA SEP funds immediately into projects that are at their final stages of development. Applicants will be evaluated by a scoring committee on the following criteria; extent of development jobs created, energy saved, renewable energy installed capacity and generated, GHG emissions reduced, energy cost savings, and funds leveraged.

➤ **Revolving Loan Fund: \$11,000,000 (was \$3,000,000)**

- A clean energy revolving loan fund will be administered by the Colorado Governor's Energy Office in conjunction with a select group of preferred lenders. The purpose of the revolving loan fund will be to provide low cost capital for banks to provide short and medium term loans for renewable energy and energy efficiency projects throughout the state.

➤ **Renewable Energy Financing Program: \$2,173,350**

- The program will work with the following financial mechanisms: CREBs/QECBs, a Solar Investment Tax Credit (ITC) Grant in Lieu of Tax Credit Loan Program and the K-12 Renewable Energy Loan Program through the Colorado State Treasury, as well as other opportunities arising in the course of the next two years.

➤ **Colorado Center for Renewable Energy and Economic Development: (CREED) \$615,413**

DOE F 540.1  
(08/05)

**U.S. Department of Energy  
STATE ENERGY PROGRAM (SEP)  
NARRATIVE INFORMATION WORKSHEET**

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

**(Grant Number: EE00082 )**

Market Title: Capital Investments

- CREED is a cooperative program between Colorado and the National Renewable Energy Lab. The first of its kind in the nation, CREED will provide a crossroads facility for technology commercialization, where NREL scientists, engineers and researchers can meet, conference and discuss important technical, business market and policy issues with entrepreneurs, venture capital firms, angel investors, analysts and policymakers. It will be a home for state and regional initiatives that foster the creation of new businesses and will emphasize the commercial deployment of renewable energy and energy efficient technologies that emerge from NREL's technology transfer and commercialization programs.

The GEO will develop multiple solicitations for the projects outlined above. The content of these solicitations will align SEP dollars spent with key metrics including energy savings, job creation, and carbon emission reductions. The GEO will develop formal structures preserving state energy office control over project criteria and eligibility guidelines. The Public Private Partnership (PPP) will be determined through a formal bid process under the guidelines set within the SEP and in accordance with procurement rules as defined by the State of Colorado.

**Management and Program Design:**

Management and administration of the Capital Investment Program will remain under the GEO Finance Manager. All projects established by the GEO under the Capital Investment program will be managed by the Finance Manager and a formal board consisting of GEO staff and industry representatives. Multiple solicitations for project administrators will leave flexibility to negotiate final terms after winning bids are determined. Many state energy offices currently run revolving loan funds and other financial incentive programs with a similar focus on efficiency and renewable energy. The GEO has been evaluating existing state energy office programs for best practices while considering program design options.

7. Program Year Milestones\* :

	Milestone	Planned (Number)
5	Revolving Loan Fund solicitation and program design	1
6	Revolving Loan Fund program administration through full cycle	1
7	NEED - Develop comprehensive application for EE/RE projects	1
8	NEED - Review project applications (2 rounds of NEED grants)	1
9	NEED - Awards/POs and/or Contracts to selected projects (undetermined)	8
10	RE Finance Develop comprehensive solicitation	1
11	RE Finance partner selection	1
12	RE Finance exercise finance mechanisms for projects	1
13	CREED award fund to selected project(s)	1

8. Standard metrics (required)\*\*

JOB METRICS		Planned
<b>Job Creation</b>		
<b>Jobs created through Recovery Act funds</b>		
Jobs created		193

DOE F 540.1  
(08/05)

**U.S. Department of Energy  
STATE ENERGY PROGRAM (SEP)  
NARRATIVE INFORMATION WORKSHEET  
(Grant Number: EE00082 )**

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

Market Title: Capital Investments

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9. Specific metric activity (required)\*\*

SPECIFIC METRICS	Planned
<b>Loans and Grants</b>	
<b>Loans given</b>	
Number of loans	600
Total monetary value of loans	12,000

10. User specified metrics (optional)\*

METRICS	Planned

11. Program Year Funds by Source\*

<b>a. SEP Grant (all funds in the approved budget)</b>	
DOE	\$17,974,130.00
<b>Market Budget Total</b>	<b>\$17,974,130.00</b>
<b>b. Leveraged funds anticipated (outside approved budget)</b>	

DOE F 540.1  
(08/05)

# U.S. Department of Energy STATE ENERGY PROGRAM (SEP) NARRATIVE INFORMATION WORKSHEET

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

**(Grant Number: EE00082 )**

Market Title: Colorado Electric and Gas Utilities

1. Market (choose one):

<input type="checkbox"/> Buildings <input checked="" type="checkbox"/> Electric Power and Renewable Energy <input type="checkbox"/> Energy Education	<input type="checkbox"/> Industry <input type="checkbox"/> Policy, Planning and Energy Security <input type="checkbox"/> Transportation
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2. State: CO

3. Program Year: 2009

Date Start: 07/01/2009    Date End: 04/30/2012

4. Topics Involved in the Overall Program Market (choose all that apply):

<input type="checkbox"/> Agriculture <input type="checkbox"/> Alternative Fuels <input type="checkbox"/> Appliance efficiency and standards <input type="checkbox"/> Bioenergy and biobased products <input type="checkbox"/> Biomass Power <input type="checkbox"/> Building America <input type="checkbox"/> Carpools, vanpools, and ridesharing <small>**</small> <input type="checkbox"/> Clean Cities <input checked="" type="checkbox"/> Climate change planning <input type="checkbox"/> Combined heat and power <input type="checkbox"/> Commercial buildings <input type="checkbox"/> Curriculum development <input checked="" type="checkbox"/> Demand reduction <input checked="" type="checkbox"/> Distributed energy generation <input checked="" type="checkbox"/> Energy and environment <input type="checkbox"/> Energy building codes <input checked="" type="checkbox"/> Energy consumption and price statistics <input type="checkbox"/> Energy emergency planning <input checked="" type="checkbox"/> ENERGY STAR	<input type="checkbox"/> Federal Energy Management Program <input type="checkbox"/> Federal, state and local facilities <input type="checkbox"/> Financing energy programs <input type="checkbox"/> Fuel cells <input type="checkbox"/> General energy efficiency for industry <input type="checkbox"/> Geothermal <input type="checkbox"/> Green power programs <input type="checkbox"/> Heavy vehicles and trucks <input type="checkbox"/> Home energy ratings <input type="checkbox"/> Hydrogen <input type="checkbox"/> Hydropower <input type="checkbox"/> Industrial processing <input type="checkbox"/> Industries of the future <input type="checkbox"/> Lighting ** <input type="checkbox"/> Low-income Weatherization <input type="checkbox"/> Manufacturing <input type="checkbox"/> Motors and other industrial systems <input type="checkbox"/> Performance contracting <input checked="" type="checkbox"/> Policy and energy legislation	<input type="checkbox"/> Procurement of efficient products ** <input type="checkbox"/> Public information <input type="checkbox"/> Rating and labeling <input type="checkbox"/> Rebuild America <input type="checkbox"/> Residential buildings <input type="checkbox"/> Right turn on red ** <input type="checkbox"/> Schools <input type="checkbox"/> Solar power <input checked="" type="checkbox"/> State energy strategic plans <input type="checkbox"/> Telecommuting <input type="checkbox"/> Thermal ** <input type="checkbox"/> Traffic signals <input type="checkbox"/> Transmission and infrastructure reliability <input type="checkbox"/> Transportation alternatives <input type="checkbox"/> Waste management and recycling <input type="checkbox"/> Water systems <input checked="" type="checkbox"/> Wind energy
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5. Estimated Annual Energy Savings : 5,400.00 MBtus

6. Description (executive summary of goals and objectives)\* :

DOE F 540.1  
(08/05)

**U.S. Department of Energy**  
**STATE ENERGY PROGRAM (SEP)**  
**NARRATIVE INFORMATION WORKSHEET**

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

(Grant Number: EE00082)

Market Title: Colorado Electric and Gas Utilities

The Governor's Energy Office will be conducting a set of major education and outreach activities involving climate policy, electric generation, and general energy profile data on state utilities. The Governor has issued the Colorado Climate Action Plan (CAP) which outlines a 2020 goal of reducing CO2 emission by 20% from the electric, transportation and industrial sector. The Electric and Gas Utilities Program will be developing a suite of products which will create a strong vision for accomplishing the emission reduction goals within the CAP for utility customers, electric utilities and the Colorado legislature. In addition to these outreach activities, the GEO will be actively engaged in promoting Governor Ritter's New Energy Economy goals at the Colorado Public Utilities Commission. The GEO will be actively engaging with the second phase of the electric rate case for Public Service Company of Colorado. This is a significant opportunity to explore changes in rate structure, in alignment with the objectives articulated in the Colorado Climate Action Plan. In addition to the rate case, there are future dockets on electric resource planning for both Black Hills Corporation and Public Service Company of Colorado. Decisions made through these rulemaking exercises will have a large impact on the energy savings and renewable energy deployment goals of the state of Colorado. Through advocacy in support of expanded DSM and renewable energy objectives, this project area supports SEP Strategic Plan goals.

**The primary activities which the Utilities Program will be conducting its work will be within the following categories:**

*Public education to promote energy conservation*

*Developing strategic plans for long term resource planning that optimize energy efficiency and renewable energy into the aggregate electrical load for the state*

*Encourage the introduction of energy saving technologies in the industry, buildings, transportation and utility sectors and encourage state and industry partnerships that develop and demonstrate advance in energy efficiency and clean technologies*

*Modify patterns of energy consumption so as to reduce peak demands for energy and improve the efficiency supply systems*

*Feasibility studies for the utilization of renewable energy and energy efficiency resource technologies*

*Collaborative programs for energy efficiency and renewable energy technologies that link a state's energy and environment objectives*

## 7. Program Year Milestones\* :

	Milestone	Planned (Number)
1	Utility energy policy workshops	3
2	Produce testimony, reports, and policy memos	10
3	Participate in PUC Dockets	5
4	Attend workshops/conferences	5
5	Facilitate the development of a state public utility DSM program	1
6	Develop comprehensive reports on climate change and electric power in Colorado	3
7	Facilitate statewide plan on resource planning to meet electric load	1

DOE F 540.1  
(08/05)

**U.S. Department of Energy  
STATE ENERGY PROGRAM (SEP)  
NARRATIVE INFORMATION WORKSHEET  
(Grant Number: EE00082)**

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

Market Title: Colorado Electric and Gas Utilities

8. Standard metrics (required)\*\*

JOB METRICS	Planned
<b>Job Creation</b>	
<b>Jobs created through Recovery Act funds</b>	
Jobs created	6

9. Specific metric activity (required)\*\*

SPECIFIC METRICS	Planned
<b>Clean Energy Policy</b>	
<b>Other policies developed or improved</b>	
Policies developed	2
Policies improved	2

10. User specified metrics (optional)\*

METRICS	Planned

11. Program Year Funds by Source\*

<b>a. SEP Grant (all funds in the approved budget)</b>	
DOE	\$853,561.00
<b>Market Budget Total</b>	<b>\$853,561.00</b>
<b>b. Leveraged funds anticipated (outside approved budget)</b>	

DOE F 540.1  
(08/05)

**U.S. Department of Energy**  
**STATE ENERGY PROGRAM (SEP)**  
**NARRATIVE INFORMATION WORKSHEET**

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

(Grant Number: EE00082)

Market Title: Commercial Buildings - Existing (CBE)

## 1. Market (choose one):

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Buildings                | <input type="checkbox"/> Industry                             |
| <input type="checkbox"/> Electric Power and Renewable Energy | <input type="checkbox"/> Policy, Planning and Energy Security |
| <input type="checkbox"/> Energy Education                    | <input type="checkbox"/> Transportation                       |

2. State: CO

3. Program Year: 2009

Date Start: 07/01/2009 Date End: 04/30/2012

## 4. Topics Involved in the Overall Program Market (choose all that apply):

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Agriculture                              | <input type="checkbox"/> Federal Energy Management Program              | <input checked="" type="checkbox"/> Procurement of efficient products ** |
| <input checked="" type="checkbox"/> Alternative Fuels             | <input checked="" type="checkbox"/> Federal, state and local facilities | <input checked="" type="checkbox"/> Public information                   |
| <input type="checkbox"/> Appliance efficiency and standards       | <input checked="" type="checkbox"/> Financing energy programs           | <input type="checkbox"/> Rating and labeling                             |
| <input type="checkbox"/> Bioenergy and biobased products          | <input type="checkbox"/> Fuel cells                                     | <input checked="" type="checkbox"/> Rebuild America                      |
| <input checked="" type="checkbox"/> Biomass Power                 | <input type="checkbox"/> General energy efficiency for industry         | <input type="checkbox"/> Residential buildings                           |
| <input type="checkbox"/> Building America                         | <input type="checkbox"/> Geothermal                                     | <input type="checkbox"/> Right turn on red **                            |
| <input type="checkbox"/> Carpools, vanpools, and ridesharing **   | <input checked="" type="checkbox"/> Green power programs                | <input checked="" type="checkbox"/> Schools                              |
| <input type="checkbox"/> Clean Cities                             | <input type="checkbox"/> Heavy vehicles and trucks                      | <input checked="" type="checkbox"/> Solar power                          |
| <input type="checkbox"/> Climate change planning                  | <input type="checkbox"/> Home energy ratings                            | <input checked="" type="checkbox"/> State energy strategic plans         |
| <input checked="" type="checkbox"/> Combined heat and power       | <input type="checkbox"/> Hydrogen                                       | <input type="checkbox"/> Telecommuting                                   |
| <input checked="" type="checkbox"/> Commercial buildings          | <input type="checkbox"/> Hydropower                                     | <input type="checkbox"/> Thermal **                                      |
| <input checked="" type="checkbox"/> Curriculum development        | <input type="checkbox"/> Industrial processing                          | <input checked="" type="checkbox"/> Traffic signals                      |
| <input checked="" type="checkbox"/> Demand reduction              | <input type="checkbox"/> Industries of the future                       | <input type="checkbox"/> Transmission and infrastructure reliability     |
| <input checked="" type="checkbox"/> Distributed energy generation | <input checked="" type="checkbox"/> Lighting **                         | <input checked="" type="checkbox"/> Transportation alternatives          |
| <input type="checkbox"/> Energy and environment                   | <input type="checkbox"/> Low-income Weatherization                      | <input type="checkbox"/> Waste management and recycling                  |
| <input checked="" type="checkbox"/> Energy building codes         | <input type="checkbox"/> Manufacturing                                  | <input checked="" type="checkbox"/> Water systems                        |
| <input type="checkbox"/> Energy consumption and price statistics  | <input type="checkbox"/> Motors and other industrial systems            | <input checked="" type="checkbox"/> Wind energy                          |
| <input type="checkbox"/> Energy emergency planning                | <input checked="" type="checkbox"/> Performance contracting             |  |
| <input checked="" type="checkbox"/> ENERGY STAR                   | <input checked="" type="checkbox"/> Policy and energy legislation       |  |

5. Estimated Annual Energy Savings : 178,000.00 MBtus

## 6. Description (executive summary of goals and objectives)\* :

The Energy Efficiency for Existing Buildings Program provides a host of sub programs help agencies reduce their energy and carbon emissions and participate in the New Energy Economy. These offerings include facilitating Energy Performance Contracts projects for public agencies throughout Colorado, providing energy management expertise to K-12 market, promoting and aiding in the wide spread installation of cost effective energy efficient technology, bringing new and innovative energy efficient technology into the market, bringing recognition to agencies on the forefront of energy efficiency and GGH emission reduction implementation.

1. Energy Performance Contracting \$1,215,783
2. Energy Efficiency in Commercial Buildings (Greening main street) \$1,079,212
3. K-12 Efficiency Programs \$991,142

GEO expect the EECSBG block grant funding will supplement this program

DOE F 540.1  
(08/05)

**U.S. Department of Energy**  
**STATE ENERGY PROGRAM (SEP)**  
**NARRATIVE INFORMATION WORKSHEET**

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

(Grant Number: EE00082)

Market Title: Commercial Buildings - Existing (CBE)

## 7. Program Year Milestones\* :

Milestone		Planned (Number)
1	Energy performance contracting support to agencies currently participating in the program	30
2	Engage new agencies in the program	24
3	Award or create case studies on EE/RE projects	4
4	Training or education events	4
5	Provide energy managers to BOCES	1
6	Provide energy audits to "Main Street" agencies	12
7	Install RE emergency system in a K-12 facility	1

## 8. Standard metrics (required)\*\*

JOB METRICS	Planned
<b>Job Creation</b>	
<b>Jobs created through Recovery Act funds</b>	
Jobs created	36

## 9. Specific metric activity (required)\*\*

SPECIFIC METRICS	Planned
<b>Building Retrofits</b>	
<b>Buildings retrofitted, by sector</b>	
Buildings retrofitted (Commercial)	8
Square footage retrofitted (Commercial)	1,200,000

## 10. User specified metrics (optional)\*

METRICS	Planned
<b>Building Energy Audits</b>	
<b>Building energy audits, by sector</b>	
Audits performed (Commercial)	37
Floor space audited (Commercial)	1,851,852
Auditor's projection of energy savings (Commercial)	185,185
<b>Workshops, Training, and Education</b>	
<b>Workshops, training, and education sessions, by sector</b>	
Number of workshops, training, and education sessions held (Commercial)	10
Number of people attending (Commercial)	300

## 11. Program Year Funds by Source\*

a. SEP Grant (all funds in the approved budget)	
DOE	\$3,597,200.00
<b>Market Budget Total</b>	<b>\$3,597,200.00</b>
b. Leveraged funds anticipated (outside approved budget)	

DOE F 540.1  
(08/05)

**U.S. Department of Energy**  
**STATE ENERGY PROGRAM (SEP)**  
**NARRATIVE INFORMATION WORKSHEET**  
**(Grant Number: EE00082 )**

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

Market Title: Commercial Buildings - Existing (CBE)

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DOE F 540.1  
(08/05)

**U.S. Department of Energy  
STATE ENERGY PROGRAM (SEP)  
NARRATIVE INFORMATION WORKSHEET**

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

**(Grant Number: EE00082 )**

Market Title: Commercial High Performance Buildings (HPB)

1. Market (choose one):

<input checked="" type="checkbox"/> Buildings	<input type="checkbox"/> Industry
<input type="checkbox"/> Electric Power and Renewable Energy	<input type="checkbox"/> Policy, Planning and Energy Security
<input type="checkbox"/> Energy Education	<input type="checkbox"/> Transportation

2. State: CO

3. Program Year: 2009

Date Start: 07/01/2009 Date End: 04/30/2012

4. Topics Involved in the Overall Program Market (choose all that apply):

<input type="checkbox"/> Agriculture	<input type="checkbox"/> Federal Energy Management Program	<input checked="" type="checkbox"/> Procurement of efficient products **
<input checked="" type="checkbox"/> Alternative Fuels	<input checked="" type="checkbox"/> Federal, state and local facilities	<input checked="" type="checkbox"/> Public information
<input type="checkbox"/> Appliance efficiency and standards	<input checked="" type="checkbox"/> Financing energy programs	<input type="checkbox"/> Rating and labeling
<input type="checkbox"/> Bioenergy and biobased products	<input type="checkbox"/> Fuel cells	<input checked="" type="checkbox"/> Rebuild America
<input checked="" type="checkbox"/> Biomass Power	<input type="checkbox"/> General energy efficiency for industry	<input type="checkbox"/> Residential buildings
<input type="checkbox"/> Building America	<input type="checkbox"/> Geothermal	<input type="checkbox"/> Right turn on red **
<input type="checkbox"/> Carpools, vanpools, and ridesharing **	<input checked="" type="checkbox"/> Green power programs	<input checked="" type="checkbox"/> Schools
<input type="checkbox"/> Clean Cities	<input type="checkbox"/> Heavy vehicles and trucks	<input checked="" type="checkbox"/> Solar power
<input type="checkbox"/> Climate change planning	<input type="checkbox"/> Home energy ratings	<input checked="" type="checkbox"/> State energy strategic plans
<input checked="" type="checkbox"/> Combined heat and power	<input type="checkbox"/> Hydrogen	<input type="checkbox"/> Telecommuting
<input checked="" type="checkbox"/> Commercial buildings	<input type="checkbox"/> Hydropower	<input type="checkbox"/> Thermal **
<input checked="" type="checkbox"/> Curriculum development	<input type="checkbox"/> Industrial processing	<input checked="" type="checkbox"/> Traffic signals
<input checked="" type="checkbox"/> Demand reduction	<input type="checkbox"/> Industries of the future	<input type="checkbox"/> Transmission and infrastructure reliability
<input checked="" type="checkbox"/> Distributed energy generation	<input checked="" type="checkbox"/> Lighting **	<input checked="" type="checkbox"/> Transportation alternatives
<input checked="" type="checkbox"/> Energy and environment	<input type="checkbox"/> Low-income Weatherization	<input checked="" type="checkbox"/> Waste management and recycling
<input checked="" type="checkbox"/> Energy building codes	<input type="checkbox"/> Manufacturing	<input checked="" type="checkbox"/> Water systems
<input type="checkbox"/> Energy consumption and price statistics	<input type="checkbox"/> Motors and other industrial systems	<input checked="" type="checkbox"/> Wind energy
<input type="checkbox"/> Energy emergency planning	<input checked="" type="checkbox"/> Performance contracting	
<input checked="" type="checkbox"/> ENERGY STAR	<input checked="" type="checkbox"/> Policy and energy legislation	

5. Estimated Annual Energy Savings : 24,687.00 MBtus

6. Description (executive summary of goals and objectives)\* :

The GEO High Performance Building (HPB) Program will affect long-term market transformation in the field of energy efficient and high performance, green buildings. High Performance Building drives the value of the built environment in communities through a collaborative process encompassing funding, planning, design, construction, maintenance and operation. The program will achieve its goals through a combination of technical assistance to public agency new construction and major renovation projects, workshops and trainings and dissemination /development of tools and best practices. The HPD program also relies on close collaboration with state agencies, local governments and public school districts to implement energy efficiency and green building policies, particularly the state's stringent high performance certification requirements, develop voluntary programs that impact new design and create sustained demand for skilled jobs in the design and construction industry.

DOE F 540.1  
(08/05)

**U.S. Department of Energy**  
**STATE ENERGY PROGRAM (SEP)**  
**NARRATIVE INFORMATION WORKSHEET**

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

(Grant Number: EE00082)

Market Title: Commercial High Performance Buildings (HPB)

## 7. Program Year Milestones\* :

	Milestone	Planned (Number)
1	Solicit new agencies into HPB program	30
2	Provide contined HPB support to agencies currently in the program	10
3	initiate statewide outreach and education campaign	1
4	High performance building case studies	8
5	Launch New Zero task force	1
6	Develop model K-12 tech specs for energy efficiency	1
7	Annoucne program opportunities to media, agencies and report on outcomes	3
8	Develop high performance building tools	4

## 8. Standard metrics (required)\*\*

JOB METRICS	Planned
<b>Job Creation</b>	
<b>Jobs created through Recovery Act funds</b>	
Jobs created	25

## 9. Specific metric activity (required)\*\*

SPECIFIC METRICS	Planned
<b>Technical Assistance</b>	
<b>Information contacts (e.g., webinars, site visits, media, fact sheet) in which energy efficiency or renewable energy measures</b>	
Number of contacts (Public)	40

## 10. User specified metrics (optional)\*

METRICS	Planned
<b>Loans and Grants</b>	
<b>Grants given</b>	
Number of grants	10
Total monetary value of grants	1,750
<b>Workshops, Training, and Education</b>	
<b>Workshops, training, and education sessions, by sector</b>	
Number of workshops, training, and education sessions held (Public)	24
Number of people attending (Public)	240

## 11. Program Year Funds by Source\*

a. SEP Grant (all funds in the approved budget)	
DOE	\$2,404,334.00
<b>Market Budget Total</b>	<b>\$2,404,334.00</b>
b. Leveraged funds anticipated (outside approved budget)	

DOE F 540.1  
(08/05)

# U.S. Department of Energy STATE ENERGY PROGRAM (SEP) NARRATIVE INFORMATION WORKSHEET

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

**(Grant Number: EE00082 )**

Market Title: Greening Government

1. Market (choose one):

<input type="checkbox"/> Buildings <input type="checkbox"/> Electric Power and Renewable Energy <input type="checkbox"/> Energy Education	<input type="checkbox"/> Industry <input checked="" type="checkbox"/> Policy, Planning and Energy Security <input type="checkbox"/> Transportation
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2. State: CO

3. Program Year: 2009

Date Start: 07/01/2009    Date End: 04/30/2012

4. Topics Involved in the Overall Program Market (choose all that apply):

<input type="checkbox"/> Agriculture <input checked="" type="checkbox"/> Alternative Fuels <input type="checkbox"/> Appliance efficiency and standards <input checked="" type="checkbox"/> Bioenergy and biobased products <input checked="" type="checkbox"/> Biomass Power <input type="checkbox"/> Building America <input checked="" type="checkbox"/> Carpools, vanpools, and ridesharing ** <input type="checkbox"/> Clean Cities <input checked="" type="checkbox"/> Climate change planning <input checked="" type="checkbox"/> Combined heat and power <input checked="" type="checkbox"/> Commercial buildings <input checked="" type="checkbox"/> Curriculum development <input checked="" type="checkbox"/> Demand reduction <input checked="" type="checkbox"/> Distributed energy generation <input checked="" type="checkbox"/> Energy and environment <input type="checkbox"/> Energy building codes <input type="checkbox"/> Energy consumption and price statistics <input type="checkbox"/> Energy emergency planning <input checked="" type="checkbox"/> ENERGY STAR	<input type="checkbox"/> Federal Energy Management Program <input checked="" type="checkbox"/> Federal, state and local facilities <input checked="" type="checkbox"/> Financing energy programs <input type="checkbox"/> Fuel cells <input type="checkbox"/> General energy efficiency for industry <input type="checkbox"/> Geothermal <input checked="" type="checkbox"/> Green power programs <input checked="" type="checkbox"/> Heavy vehicles and trucks <input type="checkbox"/> Home energy ratings <input type="checkbox"/> Hydrogen <input type="checkbox"/> Hydropower <input type="checkbox"/> Industrial processing <input type="checkbox"/> Industries of the future <input checked="" type="checkbox"/> Lighting ** <input type="checkbox"/> Low-income Weatherization <input type="checkbox"/> Manufacturing <input type="checkbox"/> Motors and other industrial systems <input checked="" type="checkbox"/> Performance contracting <input checked="" type="checkbox"/> Policy and energy legislation	<input checked="" type="checkbox"/> Procurement of efficient products ** <input checked="" type="checkbox"/> Public information <input type="checkbox"/> Rating and labeling <input checked="" type="checkbox"/> Rebuild America <input type="checkbox"/> Residential buildings <input type="checkbox"/> Right turn on red ** <input type="checkbox"/> Schools <input checked="" type="checkbox"/> Solar power <input checked="" type="checkbox"/> State energy strategic plans <input checked="" type="checkbox"/> Telecommuting <input type="checkbox"/> Thermal ** <input type="checkbox"/> Traffic signals <input type="checkbox"/> Transmission and infrastructure reliability <input checked="" type="checkbox"/> Transportation alternatives <input checked="" type="checkbox"/> Waste management and recycling <input checked="" type="checkbox"/> Water systems <input checked="" type="checkbox"/> Wind energy
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5. Estimated Annual Energy Savings : 5,000.00 MBtus

6. Description (executive summary of goals and objectives)\* :

DOE F 540.1  
(08/05)

**U.S. Department of Energy**  
**STATE ENERGY PROGRAM (SEP)**  
**NARRATIVE INFORMATION WORKSHEET**

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

(Grant Number: EE00082)

Market Title: Greening Government

The Greening Government Program is a "Lead-by-Example" Program, established by the Greening Government Executive Orders. The Executive Orders call for state employees to take a position of leadership to reduce the environmental impact of state government operations. GEO works closely with state agencies, colleges, and university to help them achieve the greening government goals by 2012:

25% petroleum reduction

20% energy reduction

20% paper reduction

10% water reduction

75% waste diversion

Program offerings include facilitating Energy Performance Contracts projects and aiding in the wide spread installation of cost effective energy efficient and water-reduction technology, providing strategies and removing barriers to improve the efficiency of the state fleet, developing materials management programs, including an environmentally preferable purchasing policy.

## 7. Program Year Milestones\* :

	Milestone	Planned (Number)
1	Energy performance contracting support to agencies currently participating in the program	12
2	Engage only state agency not currently participating in the program	24
3	Award or create case studies on EE/RE projects	1
4	Implement statewide utility database	1
5	Training or Education events	4
6	Provide strategy to incorporate plug-in hybrid electric vehicles into the fleet	1
7	Set up Utility Rebate account	1
8	Develop model solar contracts, power purchase agreement for state government	1

## 8. Standard metrics (required)\*\*

JOB METRICS	Planned
<b>Job Creation</b>	
<b>Jobs created through Recovery Act funds</b>	
Jobs created	3

## 9. Specific metric activity (required)\*\*

SPECIFIC METRICS	Planned
<b>Building Retrofits</b>	
<b>Buildings retrofitted, by sector</b>	
Buildings retrofitted (Public)	12
Square footage retrofitted (Public)	2,000,000

DOE F 540.1  
(08/05)

**U.S. Department of Energy**  
**STATE ENERGY PROGRAM (SEP)**  
**NARRATIVE INFORMATION WORKSHEET**

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

(Grant Number: EE00082)

Market Title: Greening Government

## 10. User specified metrics (optional)\*

METRICS	Planned
<b>Energy Efficiency Rating and Labeling</b>	
<b>Energy-consuming devices for which energy-efficiency rating and labeling systems were endorsed by the grantee</b>	
Device endorsed? (Refrigerator)	Yes
<b>Government, School, Institutional Procurement</b>	
<b>Units purchased, by type</b>	
Units purchased (Office equipment)	10
<b>Transportation</b>	
<b>Conventional vehicles converted to alternative fuel use</b>	
Vehicles converted	10
<b>Workshops, Training, and Education</b>	
<b>Workshops, training, and education sessions, by sector</b>	
Number of workshops, training, and education sessions held (Public)	4
Number of people attending (Public)	100

## 11. Program Year Funds by Source\*

a. SEP Grant (all funds in the approved budget)	
DOE	\$712,026.00
<b>Market Budget Total</b>	<b>\$712,026.00</b>
b. Leveraged funds anticipated (outside approved budget)	

DOE F 540.1  
(08/05)

# U.S. Department of Energy STATE ENERGY PROGRAM (SEP) NARRATIVE INFORMATION WORKSHEET

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

**(Grant Number: EE00082 )**

Market Title: Public Information

1. Market (choose one):

<input type="checkbox"/> Buildings <input type="checkbox"/> Electric Power and Renewable Energy <input checked="" type="checkbox"/> Energy Education	<input type="checkbox"/> Industry <input type="checkbox"/> Policy, Planning and Energy Security <input type="checkbox"/> Transportation
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2. State: CO

3. Program Year: 2009

Date Start: 07/01/2009    Date End: 04/30/2012

4. Topics Involved in the Overall Program Market (choose all that apply):

<input checked="" type="checkbox"/> Agriculture <input checked="" type="checkbox"/> Alternative Fuels <input checked="" type="checkbox"/> Appliance efficiency and standards <input checked="" type="checkbox"/> Bioenergy and biobased products <input checked="" type="checkbox"/> Biomass Power <input type="checkbox"/> Building America <input checked="" type="checkbox"/> Carpools, vanpools, and ridesharing ** <input checked="" type="checkbox"/> Clean Cities <input checked="" type="checkbox"/> Climate change planning <input checked="" type="checkbox"/> Combined heat and power <input checked="" type="checkbox"/> Commercial buildings <input checked="" type="checkbox"/> Curriculum development <input checked="" type="checkbox"/> Demand reduction <input checked="" type="checkbox"/> Distributed energy generation <input checked="" type="checkbox"/> Energy and environment <input checked="" type="checkbox"/> Energy building codes <input checked="" type="checkbox"/> Energy consumption and price statistics <input type="checkbox"/> Energy emergency planning <input checked="" type="checkbox"/> ENERGY STAR	<input type="checkbox"/> Federal Energy Management Program <input checked="" type="checkbox"/> Federal, state and local facilities <input checked="" type="checkbox"/> Financing energy programs <input type="checkbox"/> Fuel cells <input checked="" type="checkbox"/> General energy efficiency for industry <input checked="" type="checkbox"/> Geothermal <input checked="" type="checkbox"/> Green power programs <input type="checkbox"/> Heavy vehicles and trucks <input checked="" type="checkbox"/> Home energy ratings <input type="checkbox"/> Hydrogen <input checked="" type="checkbox"/> Hydropower <input type="checkbox"/> Industrial processing <input type="checkbox"/> Industries of the future <input checked="" type="checkbox"/> Lighting ** <input checked="" type="checkbox"/> Low-income Weatherization <input type="checkbox"/> Manufacturing <input type="checkbox"/> Motors and other industrial systems <input checked="" type="checkbox"/> Performance contracting <input checked="" type="checkbox"/> Policy and energy legislation	<input checked="" type="checkbox"/> Procurement of efficient products ** <input checked="" type="checkbox"/> Public information <input checked="" type="checkbox"/> Rating and labeling <input type="checkbox"/> Rebuild America <input checked="" type="checkbox"/> Residential buildings <input type="checkbox"/> Right turn on red ** <input checked="" type="checkbox"/> Schools <input checked="" type="checkbox"/> Solar power <input type="checkbox"/> State energy strategic plans <input checked="" type="checkbox"/> Telecommuting <input checked="" type="checkbox"/> Thermal ** <input type="checkbox"/> Traffic signals <input checked="" type="checkbox"/> Transmission and infrastructure reliability <input type="checkbox"/> Transportation alternatives <input type="checkbox"/> Waste management and recycling <input type="checkbox"/> Water systems <input checked="" type="checkbox"/> Wind energy
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5. Estimated Annual Energy Savings : 0.00 MBtus

6. Description (executive summary of goals and objectives)\* :

DOE F 540.1  
(08/05)

**U.S. Department of Energy  
STATE ENERGY PROGRAM (SEP)  
NARRATIVE INFORMATION WORKSHEET  
(Grant Number: EE00082)**

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

Market Title: Public Information

With 57 Utilities in the state, 271 municipalities, and 64 counties, there are myriad levels of incentives depending upon where an individual lives. Combined with changing state and federal incentives, it is nearly impossible for an individual to ascertain what their best options are for efficiency and renewable products and make informed financial decisions.

The Governor's Energy Office (GEO) aims to remove this information barrier by providing colorado's residents and businesses with access to simple and accurate information about energy efficiency (EE) and renewable energy (RE) measures including, but not limited to, how they work, how they compare, what financial incentives exist to help pay for them and what service providers exist in the users' geographic location.

GEO will create an innovative public outreach program that will:  
Present information in a simple and direct manner  
Push useful information to the forefront  
Avoid dense language  
Turn exploration & education moments into action moments  
Allow for stakeholders to participate by providing information about their efforts

With the above principles in minds, the GEO has identified the following strategies as part of its Access to Information efforts:  
Develop a web strategy for residents and homeowners to receive information about incentives, service providers and financing opportunities  
Establish a telephone hotline for residents and homeowners to receive information about incentives, service providers and financing opportunities.  
Implement robust consumer outreach to publicize the methods of accessing the information and educational information to help consumers understand their choices.  
Engage local champions throughout the state to optimize and leverage outreach strategies and long term sustainability of efforts.

Specific metrics for program can not be expressed with the current DOE metrics options. The GEO will measure the success of the program in number of impressions made through marketing strategies, number of website visitors, number of calls received, and number of partner organizations.

7. Program Year Milestones\* :

Milestone		Planned (Number)
1	Contract with vendors to develop brand, Web presence and marketing strategies	1
2	Launch Web presence and marketing campaign	1
3	Contract with team to develop and manage call center	1
4	Launch call center	1
5	Impact Reports (quarterly)	11
6	Final Impact Report	1

8. Standard metrics (required)\*\*

JOB METRICS	Planned
<b>Job Creation</b>	
<b>Jobs created through Recovery Act funds</b>	
Jobs created	25

9. Specific metric activity (required)\*\*

SPECIFIC METRICS	Planned
<b>Workshops, Training, and Education</b>	
<b>Workshops, training, and education sessions, by sector</b>	
Number of workshops, training, and education sessions held (All sectors)	1
Number of people attending (All sectors)	1

DOE F 540.1  
(08/05)

**U.S. Department of Energy  
STATE ENERGY PROGRAM (SEP)  
NARRATIVE INFORMATION WORKSHEET  
(Grant Number: EE00082 )**

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

Market Title: Public Information

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10. User specified metrics (optional)\*

METRICS	Planned

11. Program Year Funds by Source\*

a. SEP Grant (all funds in the approved budget)	
DOE	\$4,970,301.00
<b>Market Budget Total</b>	<b>\$4,970,301.00</b>
b. Leveraged funds anticipated (outside approved budget)	

DOE F 540.1  
(08/05)

**U.S. Department of Energy  
STATE ENERGY PROGRAM (SEP)  
NARRATIVE INFORMATION WORKSHEET**

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

**(Grant Number: EE00082 )**

Market Title: RE Education and Outreach

1. Market (choose one):

<input type="checkbox"/> Buildings	<input type="checkbox"/> Industry
<input type="checkbox"/> Electric Power and Renewable Energy	<input type="checkbox"/> Policy, Planning and Energy Security
<input checked="" type="checkbox"/> Energy Education	<input type="checkbox"/> Transportation

2. State: CO

3. Program Year: 2009

Date Start: 07/01/2009 Date End: 04/30/2012

4. Topics Involved in the Overall Program Market (choose all that apply):

<input type="checkbox"/> Agriculture	<input type="checkbox"/> Federal Energy Management Program	<input type="checkbox"/> Procurement of efficient products **
<input checked="" type="checkbox"/> Alternative Fuels	<input type="checkbox"/> Federal, state and local facilities	<input type="checkbox"/> Public information
<input type="checkbox"/> Appliance efficiency and standards	<input type="checkbox"/> Financing energy programs	<input type="checkbox"/> Rating and labeling
<input checked="" type="checkbox"/> Bioenergy and biobased products	<input type="checkbox"/> Fuel cells	<input type="checkbox"/> Rebuild America
<input checked="" type="checkbox"/> Biomass Power	<input type="checkbox"/> General energy efficiency for industry	<input type="checkbox"/> Residential buildings
<input type="checkbox"/> Building America	<input checked="" type="checkbox"/> Geothermal	<input type="checkbox"/> Right turn on red **
<input type="checkbox"/> Carpools, vanpools, and ridesharing **	<input type="checkbox"/> Green power programs	<input checked="" type="checkbox"/> Schools
<input type="checkbox"/> Clean Cities	<input type="checkbox"/> Heavy vehicles and trucks	<input checked="" type="checkbox"/> Solar power
<input type="checkbox"/> Climate change planning	<input type="checkbox"/> Home energy ratings	<input type="checkbox"/> State energy strategic plans
<input checked="" type="checkbox"/> Combined heat and power	<input type="checkbox"/> Hydrogen	<input type="checkbox"/> Telecommuting
<input type="checkbox"/> Commercial buildings	<input checked="" type="checkbox"/> Hydropower	<input checked="" type="checkbox"/> Thermal **
<input checked="" type="checkbox"/> Curriculum development	<input type="checkbox"/> Industrial processing	<input type="checkbox"/> Traffic signals
<input checked="" type="checkbox"/> Demand reduction	<input type="checkbox"/> Industries of the future	<input type="checkbox"/> Transmission and infrastructure reliability
<input checked="" type="checkbox"/> Distributed energy generation	<input type="checkbox"/> Lighting **	<input type="checkbox"/> Transportation alternatives
<input checked="" type="checkbox"/> Energy and environment	<input type="checkbox"/> Low-income Weatherization	<input type="checkbox"/> Waste management and recycling
<input type="checkbox"/> Energy building codes	<input type="checkbox"/> Manufacturing	<input type="checkbox"/> Water systems
<input type="checkbox"/> Energy consumption and price statistics	<input type="checkbox"/> Motors and other industrial systems	<input checked="" type="checkbox"/> Wind energy
<input type="checkbox"/> Energy emergency planning	<input type="checkbox"/> Performance contracting	
<input type="checkbox"/> ENERGY STAR	<input checked="" type="checkbox"/> Policy and energy legislation	

5. Estimated Annual Energy Savings : 5,250.00 MBtus

6. Description (executive summary of goals and objectives)\* :

DOE F 540.1  
(08/05)

**U.S. Department of Energy**  
**STATE ENERGY PROGRAM (SEP)**  
**NARRATIVE INFORMATION WORKSHEET**

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

**(Grant Number: EE00082 )**

Market Title: RE Education and Outreach

The Governor's Energy Office's Renewable Energy Team (RET) has been very successful in recent years in reviewing projects for development and disseminating information to the public on the various opportunities for support from its office.

In order to expedite the allocation of funds to viable renewable energy projects and to ensure that the public is well aware of the actions taken by the state in implementing ARRA funds, RET will incorporate a creative outreach and education program that includes technical advisory groups, media outreach and workforce training.

Working Groups

The program will be part of the larger GEO education and outreach program, in addition, we will create five technical advisory working groups to support the deployment of the following technologies in the state: Biomass, Small Hydro, Solar, Community Wind and Geothermal. GEO strongly believes that without advisory working groups to review and advise staff, issues related to information dissemination and project development may go unaddressed. As a result, many quality projects will be delayed or lost due to the inability of staff members to address all of these issues.

These advisory working groups will be made up of experts in their fields and have vast experience in project development, financing and feasibility analysis. The ten (10) members of each advisory team will be volunteers and will bring approximately \$650,000, over two years of in-kind support, to the GEO. Expenses for the working group that will be paid from SEP ARRA money will include: travel reimbursements, rental space and incidentals. Meetings will occur, at minimum, once per quarter for each advisory working group. The activities of the working groups will directly lead to renewable energy policy improvements in the state and, in turn, increased project development and investment.

Working Group Administrative Assistant

The administrative assistant contracted to support the five working groups will have a two year contract. This person will be responsible for all administrative aspects of the groups including; scheduling, agenda planning, logistical set-up and outreach.

RE Workforce Training

In order to ensure that all technologies can be deployed where best suited across the state, there is a need to provide training for those who want to design and install those technologies. As job retention and creation is an important aspect of the ARRA funding, GEO will partner with the appropriate institutions to ensure that trainings are held in geographic locations where the technologies could be deployed and jobs created and retained.

Statewide Distributed Generation Study

In order to fully understand the distributed generation potential in Colorado, a statewide resource assessment study must be conducted. It is anticipated that this study will instruct rebate/grant and financing program implementation around the state. Furthermore, this study will seek to quantify the costs and benefits of renewable distributed generation to the Colorado electric grid.

DOE F 540.1  
(08/05)

**U.S. Department of Energy  
STATE ENERGY PROGRAM (SEP)  
NARRATIVE INFORMATION WORKSHEET**

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

**(Grant Number: EE00082 )**

Market Title: RE Education and Outreach

7. Program Year Milestones\* :

	Milestone	Planned (Number)
1	Contract administrative assistant for working group teams support	1
2	Develop working group teams to support GEO RET program development	5
3	Hold quarterly working group teams (5 teams/4 times a year/ 2 years	40
4	Identify workforce training needs (one for each technology category	5
5	Hold workforce trainings	5
6	Statewide distributed generation study	1
7	Final report	1

8. Standard metrics (required)\*\*

<b>JOB METRICS</b>		<b>Planned</b>
<b>Job Creation</b>		
<b>Jobs created through Recovery Act funds</b>		
Jobs created		7

9. Specific metric activity (required)\*\*

<b>SPECIFIC METRICS</b>		<b>Planned</b>
<b>Workshops, Training, and Education</b>		
<b>Workshops, training, and education sessions, by sector</b>		
Number of workshops, training, and education sessions held (All sectors)		45
Number of people attending (All sectors)		175

10. User specified metrics (optional)\*

<b>METRICS</b>		<b>Planned</b>

11. Program Year Funds by Source\*

<b>a. SEP Grant (all funds in the approved budget)</b>		
DOE		\$525,000.00
<b>Market Budget Total</b>		<b>\$525,000.00</b>
<b>b. Leveraged funds anticipated (outside approved budget)</b>		

DOE F 540.1  
(08/05)

# U.S. Department of Energy STATE ENERGY PROGRAM (SEP) NARRATIVE INFORMATION WORKSHEET

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

**(Grant Number: EE00082 )**

Market Title: RE Program Consulting

1. Market (choose one):

<input type="checkbox"/> Buildings <input checked="" type="checkbox"/> Electric Power and Renewable Energy <input type="checkbox"/> Energy Education	<input type="checkbox"/> Industry <input type="checkbox"/> Policy, Planning and Energy Security <input type="checkbox"/> Transportation
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2. State: CO

3. Program Year: 2009

Date Start: 07/01/2009    Date End: 04/30/2012

4. Topics Involved in the Overall Program Market (choose all that apply):

<input type="checkbox"/> Agriculture <input type="checkbox"/> Alternative Fuels <input type="checkbox"/> Appliance efficiency and standards <input checked="" type="checkbox"/> Bioenergy and biobased products <input type="checkbox"/> Biomass Power <input type="checkbox"/> Building America <input type="checkbox"/> Carpools, vanpools, and ridesharing <small>**</small> <input type="checkbox"/> Clean Cities <input type="checkbox"/> Climate change planning <input checked="" type="checkbox"/> Combined heat and power <input type="checkbox"/> Commercial buildings <input type="checkbox"/> Curriculum development <input type="checkbox"/> Demand reduction <input checked="" type="checkbox"/> Distributed energy generation <input checked="" type="checkbox"/> Energy and environment <input type="checkbox"/> Energy building codes <input type="checkbox"/> Energy consumption and price statistics <input type="checkbox"/> Energy emergency planning <input type="checkbox"/> ENERGY STAR	<input type="checkbox"/> Federal Energy Management Program <input type="checkbox"/> Federal, state and local facilities <input type="checkbox"/> Financing energy programs <input type="checkbox"/> Fuel cells <input type="checkbox"/> General energy efficiency for industry <input checked="" type="checkbox"/> Geothermal <input type="checkbox"/> Green power programs <input type="checkbox"/> Heavy vehicles and trucks <input type="checkbox"/> Home energy ratings <input type="checkbox"/> Hydrogen <input checked="" type="checkbox"/> Hydropower <input type="checkbox"/> Industrial processing <input type="checkbox"/> Industries of the future <input type="checkbox"/> Lighting ** <input type="checkbox"/> Low-income Weatherization <input type="checkbox"/> Manufacturing <input type="checkbox"/> Motors and other industrial systems <input type="checkbox"/> Performance contracting <input type="checkbox"/> Policy and energy legislation	<input type="checkbox"/> Procurement of efficient products ** <input checked="" type="checkbox"/> Public information <input type="checkbox"/> Rating and labeling <input type="checkbox"/> Rebuild America <input type="checkbox"/> Residential buildings <input type="checkbox"/> Right turn on red ** <input checked="" type="checkbox"/> Schools <input type="checkbox"/> Solar power <input type="checkbox"/> State energy strategic plans <input type="checkbox"/> Telecommuting <input checked="" type="checkbox"/> Thermal ** <input type="checkbox"/> Traffic signals <input type="checkbox"/> Transmission and infrastructure reliability <input type="checkbox"/> Transportation alternatives <input type="checkbox"/> Waste management and recycling <input type="checkbox"/> Water systems <input checked="" type="checkbox"/> Wind energy
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5. Estimated Annual Energy Savings : 18,310.00 MBtus

6. Description (executive summary of goals and objectives)\* :

DOE F 540.1  
(08/05)

**U.S. Department of Energy**  
**STATE ENERGY PROGRAM (SEP)**  
**NARRATIVE INFORMATION WORKSHEET**

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

(Grant Number: EE00082)

Market Title: RE Program Consulting

The State of Colorado has the opportunity to advance the New Energy Economy by engaging directly in the development of select renewable energy projects. Colorado cannot rely solely on its electric utilities to develop technically, financially and socially feasible projects. Utilities are largely responding to their statutory and regulatory mandates when it comes to developing renewable energy projects while the state is interested in developing professional capacity, distributed generation and sustainable renewable energy project development efforts. The Governor's Energy Office (GEO) recognizes there is far greater potential for renewable energy production capacity than what is currently required of the State's utilities under the Renewable Portfolio Standard.

The overall strategy to ramp up project development and installations of distributed renewable energy systems will be focused by GEO's Renewable Energy Team of Program Managers by utilizing two major program areas: **Renewable Energy Development Team and Program Consultants.**

**Renewable Energy Development Team (REDT)**

GEO will create a Renewable Energy Development Team (REDT) that has the potential to both address supply side congestion for project development, and realize the goals of the ARRA and New Energy Economy primarily in green collar job creation and greenhouse gas emissions reduction. The REDT will follow a process through which knowledgeable renewable energy experts are engaged in the state's best distributed renewable energy project prospects. The REDT will include experts from the woody biomass, small hydro, solar electric and thermal, community wind and geothermal industries as well as finance and project development experts.

REDT consultants will be assembled to work closely with GEO Renewable Energy Team. REDT will be responsible to assist in the development of specific projects through an early stage development pipeline while working closely with GEO's team. Phase 1 is to be the initial project development review. Phase 1 essentially is a high level "go/no go" project screen that will determine the highest potential projects for development. For each of the technology areas, the REDT will develop a framework to screen projects. Phase 1 is anticipated at 40 hours of consulting time. In Phase 2, REDT will provide development assistance for a feasibility study, anticipated to require an additional 80 hours of consulting time. Phase 2 is the beginning stages of a business plan for the project. It is anticipated that the REDT will review approximately 80 Phase 1 projects of which roughly 50% will move on to Phase 2.

**RE Program Consultants:**

To increase renewable energy deployment, the State's renewable energy programs need additional support to address barriers and provide resource assessments to assist project developers.

Under these efforts, the GEO Program Consultants will support program initiatives and provide crucial information on new technologies, federal and state policies and other game changes in the renewable energy industries. Some areas of work will include codes, land use policies, statewide assessments, financing, project development, federal and state permitting avenues and institutional capacity building.

## 7. Program Year Milestones\* :

	Milestone	Planned (Number)
1	Establish consulting team - REDT for project development	1
2	Provide phase 1 & 2 REDT project review summaries (quarterly)	8
3	Hire consultants for GEO Renewable Energy Programs	10
4	Final Report to DOE	1

DOE F 540.1  
(08/05)

**U.S. Department of Energy  
STATE ENERGY PROGRAM (SEP)  
NARRATIVE INFORMATION WORKSHEET**

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

**(Grant Number: EE00082 )**

Market Title: RE Program Consulting

8. Standard metrics (required)\*\*

JOB METRICS	Planned
<b>Job Creation</b>	
<b>Jobs created through Recovery Act funds</b>	
Jobs created	15

9. Specific metric activity (required)\*\*

SPECIFIC METRICS	Planned
<b>Technical Assistance</b>	
<b>Information contacts (e.g., webinars, site visits, media, fact sheet) in which energy efficiency or renewable energy measures</b>	
Number of contacts (All sectors)	80

10. User specified metrics (optional)\*

METRICS	Planned

11. Program Year Funds by Source\*

<b>a. SEP Grant (all funds in the approved budget)</b>	
DOE	\$1,831,000.00
<b>Market Budget Total</b>	<b>\$1,831,000.00</b>
<b>b. Leveraged funds anticipated (outside approved budget)</b>	

DOE F 540.1  
(08/05)

# U.S. Department of Energy STATE ENERGY PROGRAM (SEP) NARRATIVE INFORMATION WORKSHEET

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

**(Grant Number: EE00082 )**

Market Title: RE Rebates and Grants

1. Market (choose one):

<input type="checkbox"/> Buildings <input checked="" type="checkbox"/> Electric Power and Renewable Energy <input type="checkbox"/> Energy Education	<input type="checkbox"/> Industry <input type="checkbox"/> Policy, Planning and Energy Security <input type="checkbox"/> Transportation
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2. State: CO

3. Program Year: 2009

Date Start: 07/01/2009    Date End: 04/30/2012

4. Topics Involved in the Overall Program Market (choose all that apply):

<input checked="" type="checkbox"/> Agriculture <input checked="" type="checkbox"/> Alternative Fuels <input type="checkbox"/> Appliance efficiency and standards <input checked="" type="checkbox"/> Bioenergy and biobased products <input checked="" type="checkbox"/> Biomass Power <input type="checkbox"/> Building America <input type="checkbox"/> Carpools, vanpools, and ridesharing <input type="checkbox"/> Clean Cities <input type="checkbox"/> Climate change planning <input checked="" type="checkbox"/> Combined heat and power <input type="checkbox"/> Commercial buildings <input type="checkbox"/> Curriculum development <input type="checkbox"/> Demand reduction <input checked="" type="checkbox"/> Distributed energy generation <input checked="" type="checkbox"/> Energy and environment <input type="checkbox"/> Energy building codes <input type="checkbox"/> Energy consumption and price statistics <input type="checkbox"/> Energy emergency planning <input type="checkbox"/> ENERGY STAR	<input type="checkbox"/> Federal Energy Management Program <input type="checkbox"/> Federal, state and local facilities <input type="checkbox"/> Financing energy programs <input type="checkbox"/> Fuel cells <input type="checkbox"/> General energy efficiency for industry <input checked="" type="checkbox"/> Geothermal <input type="checkbox"/> Green power programs <input type="checkbox"/> Heavy vehicles and trucks <input type="checkbox"/> Home energy ratings <input type="checkbox"/> Hydrogen <input type="checkbox"/> Hydropower <input type="checkbox"/> Industrial processing <input type="checkbox"/> Industries of the future <input type="checkbox"/> Lighting ** <input type="checkbox"/> Low-income Weatherization <input type="checkbox"/> Manufacturing <input type="checkbox"/> Motors and other industrial systems <input checked="" type="checkbox"/> Performance contracting <input type="checkbox"/> Policy and energy legislation	<input type="checkbox"/> Procurement of efficient products ** <input type="checkbox"/> Public information <input type="checkbox"/> Rating and labeling <input type="checkbox"/> Rebuild America <input type="checkbox"/> Residential buildings <input type="checkbox"/> Right turn on red ** <input checked="" type="checkbox"/> Schools <input checked="" type="checkbox"/> Solar power <input type="checkbox"/> State energy strategic plans <input type="checkbox"/> Telecommuting <input checked="" type="checkbox"/> Thermal ** <input type="checkbox"/> Traffic signals <input type="checkbox"/> Transmission and infrastructure reliability <input type="checkbox"/> Transportation alternatives <input type="checkbox"/> Waste management and recycling <input type="checkbox"/> Water systems <input checked="" type="checkbox"/> Wind energy
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5. Estimated Annual Energy Savings : 57,905.00 MBtus

6. Description (executive summary of goals and objectives)\* :

DOE F 540.1  
(08/05)

**U.S. Department of Energy  
STATE ENERGY PROGRAM (SEP)  
NARRATIVE INFORMATION WORKSHEET  
(Grant Number: EE00082 )**

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

Market Title: RE Rebates and Grants

The change in the economic conditions of Colorado and the US has forced thousands of renewable energy projects to be tabled until the credit markets begin investing again. Understanding the ARRA SEP funds are to be used to overcome the present financial barriers to investments in renewable energy, with the ARRA funding, the Governor's Energy Office will be expanding its current Renewable Energy Rebates and Grants Program substantially.

The GEO Renewable Energy Team (RET) has identified (16) sixteen different technology categories that will be eligible for grants across the residential, commercial and industrial/utility sectors. The various rebate programs the GEO plans to offer with ARRA funding include:

<b>Residential</b>	<b>Commercial</b>	<b>Industrial/Utility-scale</b>
Solar photovoltaic and hot water	Solar photovoltaic and hot water	Anaerobic digesters
Solar photovoltaic and hot water (for 100% AMI households)	Community Wind	Biofuel s retail stations
Small wind	Transpired solar (air preheat)	Exploratory geothermal well drilling
Ground source heat pumps	Biomass boilers	
Solar mortgage closing costs	Renewable Energy in Energy Performance Contracting	

The total amount to be distributed through the Renewable Energy Rebates and Grants Program is approximately \$5.7M, with an additional 10% set aside for program administration and monitoring and verification requirements. This program aims to design incentive levels at approximately a third of the total project cost after all currently available state and federal incentives. The GEO anticipates making approximately 800 project awards through this program.

These grants and rebates will be given to project developers, energy service companies and communities that successfully satisfy program requirements. Partner program funding matches will be encouraged, but not required.

GEO expects the EECBG Block grant funding will supplement this program

7. Program Year Milestones\* :

	Milestone	Planned (Number)
1	Develop programmatic structure for all rebate/grant programs	1
2	Secure contractors to manage the rebate/grant programs	1
3	Award RE rebates and grants	800
4	Issue quarterly project status reports for all rebate and grants funds	8
5	Announce quarterly the status of grant/rebate recipients and fund availability to the public	1

8. Standard metrics (required)\*\*

JOB METRICS		Planned
<b>Job Creation</b>		
<b>Jobs created through Recovery Act funds</b>		
Jobs created		82

9. Specific metric activity (required)\*\*

DOE F 540.1  
(08/05)

**U.S. Department of Energy  
STATE ENERGY PROGRAM (SEP)  
NARRATIVE INFORMATION WORKSHEET  
(Grant Number: EE00082 )**

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

Market Title: RE Rebates and Grants

SPECIFIC METRICS	Planned
<b>Loans and Grants</b>	
<b>Grants given</b>	
Number of grants	800
Total monetary value of grants	7,125

10. User specified metrics (optional)\*

METRICS	Planned

11. Program Year Funds by Source\*

a. SEP Grant (all funds in the approved budget)	
DOE	\$7,321,962.00
<b>Market Budget Total</b>	<b>\$7,321,962.00</b>
b. Leveraged funds anticipated (outside approved budget)	

DOE F 540.1  
(08/05)

# U.S. Department of Energy STATE ENERGY PROGRAM (SEP) NARRATIVE INFORMATION WORKSHEET

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

**(Grant Number: EE00082 )**

Market Title: Residential Buildings

1. Market (choose one):

<input checked="" type="checkbox"/> Buildings <input type="checkbox"/> Electric Power and Renewable Energy <input type="checkbox"/> Energy Education	<input type="checkbox"/> Industry <input type="checkbox"/> Policy, Planning and Energy Security <input type="checkbox"/> Transportation
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2. State: CO

3. Program Year: 2009

Date Start: 07/01/2009    Date End: 06/30/2010

4. Topics Involved in the Overall Program Market (choose all that apply):

<input type="checkbox"/> Agriculture <input type="checkbox"/> Alternative Fuels <input checked="" type="checkbox"/> Appliance efficiency and standards <input type="checkbox"/> Bioenergy and biobased products <input type="checkbox"/> Biomass Power <input type="checkbox"/> Building America <input type="checkbox"/> Carpools, vanpools, and ridesharing ** <input type="checkbox"/> Clean Cities <input type="checkbox"/> Climate change planning <input type="checkbox"/> Combined heat and power <input type="checkbox"/> Commercial buildings <input type="checkbox"/> Curriculum development <input checked="" type="checkbox"/> Demand reduction <input type="checkbox"/> Distributed energy generation <input checked="" type="checkbox"/> Energy and environment <input checked="" type="checkbox"/> Energy building codes <input type="checkbox"/> Energy consumption and price statistics <input type="checkbox"/> Energy emergency planning <input checked="" type="checkbox"/> ENERGY STAR	<input type="checkbox"/> Federal Energy Management Program <input type="checkbox"/> Federal, state and local facilities <input checked="" type="checkbox"/> Financing energy programs <input type="checkbox"/> Fuel cells <input type="checkbox"/> General energy efficiency for industry <input type="checkbox"/> Geothermal <input type="checkbox"/> Green power programs <input type="checkbox"/> Heavy vehicles and trucks <input checked="" type="checkbox"/> Home energy ratings <input type="checkbox"/> Hydrogen <input type="checkbox"/> Hydropower <input type="checkbox"/> Industrial processing <input type="checkbox"/> Industries of the future <input checked="" type="checkbox"/> Lighting ** <input type="checkbox"/> Low-income Weatherization <input type="checkbox"/> Manufacturing <input type="checkbox"/> Motors and other industrial systems <input type="checkbox"/> Performance contracting <input type="checkbox"/> Policy and energy legislation	<input type="checkbox"/> Procurement of efficient products ** <input type="checkbox"/> Public information <input checked="" type="checkbox"/> Rating and labeling <input type="checkbox"/> Rebuild America <input type="checkbox"/> Residential buildings <input type="checkbox"/> Right turn on red ** <input type="checkbox"/> Schools <input checked="" type="checkbox"/> Solar power <input type="checkbox"/> State energy strategic plans <input type="checkbox"/> Telecommuting <input type="checkbox"/> Thermal ** <input type="checkbox"/> Traffic signals <input type="checkbox"/> Transmission and infrastructure reliability <input type="checkbox"/> Transportation alternatives <input type="checkbox"/> Waste management and recycling <input type="checkbox"/> Water systems <input type="checkbox"/> Wind energy
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5. Estimated Annual Energy Savings : 53,902.00 MBtus

6. Description (executive summary of goals and objectives)\* :

DOE F 540.1  
(08/05)

**U.S. Department of Energy  
STATE ENERGY PROGRAM (SEP)  
NARRATIVE INFORMATION WORKSHEET  
(Grant Number: EE00082 )**

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

Market Title: Residential Buildings

The Governor's Energy Office (GEO) will work in three areas in support of the SEP strategic plan goals:

- Promoting advanced energy codes;
- Energy Efficiency in new homes; and
- Existing home energy efficiency upgrades and improvements.

**ENERGY CODES**

In fiscal year 2008/2009 the GEO engaged all 64 counties in Colorado to help them adopt and enforce the latest energy codes by offering 12 trainings in different locations around the state. This code support will be increased during the performance grant period. A key additional component of the program in this grant period will provide ongoing energy code support to local jurisdictions through a third party contractor to ensure effective follow through of code implementation at the local level.

**NEW HOME ENERGY EFFICIENCY**

The second area of work for which the GEO is requesting SEP funding is new home energy efficiency. The program utilizes the Environmental Protection Agency's (EPA) ENERGY STAR platform while engaging local cities, counties, utilities, non-profits, home builders' associations and other community organizations. During the performance grant period the GEO will provide building science, sales, real estate professional, appraiser contractor and general ENERGY STAR trainings locally. The GEO also will provide marketing, homebuilder rebates, consumer incentives and education statewide to support this effort. GEO will expand its current ENERGY STAR Mortgage Pilot program to two more financing partners to provide homeowners with financing incentives to purchase an ENERGY STAR home. There will be a parallel program to support high performing communities that wish to implement programs that achieve higher than ENERGY STAR energy savings for new homes. The GEO will also contract with an outside firm to develop a model energy efficiency design book to provide potential new home buyers with an outlet for stamped approved plans for energy efficient homes.

**EXISTING HOME ENERGY EFFICIENCY**

The third area of work the GEO will apply SEP funding is to advance energy efficiency in existing homes. The GEO will expand its current "Insulate Colorado" program to provide additional incentives available statewide. Furthermore, a new menu of incentives will be added to address duct sealing, furnace replacement, air sealing, lighting, appliance replacement and an energy audit subsidization program. The GEO will implement a new approach to bundle incentives for a "whole house tune-up" and accompany the full upgrade with vouchers toward the purchase of a Solar PV system for the home. GEO will also spearhead a statewide campaign in conjunction with libraries to allow residents to check out Kill-a-Watt energy meters, incentives for home energy monitors and a statewide campaign to raise awareness around energy consumption and measures homeowners can employ to reduce demand. The GEO will also host a conference each year of the grant period targeted at local government officials, homebuilders, realtors, the building industry, homeowners and small businesses to raise awareness around opportunities to increase efficiency in the residential housing markets.

GEO expects the EECBG block grant funding will supplement this program.

7. Program Year Milestones\* :

	Milestone	Planned (Number)
1	Conduct IECC trainings in Colorado	38
2	Energy Star new home starts	4,000
5	Home energy audits	3,000
6	Insulation rebates	2,000
7	Bundle incentives	1,000

DOE F 540.1  
(08/05)

**U.S. Department of Energy**  
**STATE ENERGY PROGRAM (SEP)**  
**NARRATIVE INFORMATION WORKSHEET**

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

(Grant Number: EE00082 )

Market Title: Residential Buildings

## 8. Standard metrics (required)\*\*

JOB METRICS	Planned
<b>Job Creation</b>	
<b>Jobs created through Recovery Act funds</b>	
Jobs created	74

## 9. Specific metric activity (required)\*\*

SPECIFIC METRICS	Planned
<b>Building Codes and Standards</b>	
<b>Building code adoption</b>	
New and existing buildings covered by new code (IECC 2003; IECC 2009)	24,000

## 10. User specified metrics (optional)\*

METRICS	Planned
<b>Workshops, Training, and Education</b>	
<b>Workshops, training, and education sessions, by sector</b>	
Number of workshops, training, and education sessions held (Residential)	50
Number of people attending (Residential)	1,500

## 11. Program Year Funds by Source\*

<b>a. SEP Grant (all funds in the approved budget)</b>	
DOE	\$5,771,888.00
<b>Market Budget Total</b>	<b>\$5,771,888.00</b>
<b>b. Leveraged funds anticipated (outside approved budget)</b>	

DOE F 540.1  
(08/05)

**U.S. Department of Energy**  
**STATE ENERGY PROGRAM (SEP)**  
**NARRATIVE INFORMATION WORKSHEET**

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

(Grant Number: EE00082)

Market Title: Transmission

## 1. Market (choose one):

- |   |   |
|---|---|
| <input type="checkbox"/> Buildings                                      | <input type="checkbox"/> Industry                             |
| <input checked="" type="checkbox"/> Electric Power and Renewable Energy | <input type="checkbox"/> Policy, Planning and Energy Security |
| <input type="checkbox"/> Energy Education                               | <input type="checkbox"/> Transportation                       |

2. State: CO

3. Program Year: 2009

Date Start: 07/01/2009 Date End: 04/30/2012

## 4. Topics Involved in the Overall Program Market (choose all that apply):

- |  |   |   |
|--|---|---|
| <input type="checkbox"/> Agriculture                             | <input type="checkbox"/> Federal Energy Management Program        | <input type="checkbox"/> Procurement of efficient products **                   |
| <input type="checkbox"/> Alternative Fuels                       | <input type="checkbox"/> Federal, state and local facilities      | <input checked="" type="checkbox"/> Public information                          |
| <input type="checkbox"/> Appliance efficiency and standards      | <input checked="" type="checkbox"/> Financing energy programs     | <input type="checkbox"/> Rating and labeling                                    |
| <input type="checkbox"/> Bioenergy and biobased products         | <input type="checkbox"/> Fuel cells                               | <input type="checkbox"/> Rebuild America  |
| <input type="checkbox"/> Biomass Power                           | <input type="checkbox"/> General energy efficiency for industry   | <input type="checkbox"/> Residential buildings                                  |
| <input type="checkbox"/> Building America                        | <input type="checkbox"/> Geothermal                               | <input type="checkbox"/> Right turn on red **                                   |
| <input type="checkbox"/> Carpools, vanpools, and ridesharing **  | <input type="checkbox"/> Green power programs                     | <input type="checkbox"/> Schools  |
| <input type="checkbox"/> Clean Cities                            | <input type="checkbox"/> Heavy vehicles and trucks                | <input checked="" type="checkbox"/> Solar power                                 |
| <input type="checkbox"/> Climate change planning                 | <input type="checkbox"/> Home energy ratings                      | <input checked="" type="checkbox"/> State energy strategic plans                |
| <input type="checkbox"/> Combined heat and power                 | <input type="checkbox"/> Hydrogen                                 | <input type="checkbox"/> Telecommuting  |
| <input type="checkbox"/> Commercial buildings                    | <input type="checkbox"/> Hydropower                               | <input type="checkbox"/> Thermal **   |
| <input type="checkbox"/> Curriculum development                  | <input type="checkbox"/> Industrial processing                    | <input type="checkbox"/> Traffic signals  |
| <input type="checkbox"/> Demand reduction                        | <input checked="" type="checkbox"/> Industries of the future      | <input checked="" type="checkbox"/> Transmission and infrastructure reliability |
| <input type="checkbox"/> Distributed energy generation           | <input type="checkbox"/> Lighting **                              | <input type="checkbox"/> Transportation alternatives                            |
| <input checked="" type="checkbox"/> Energy and environment       | <input type="checkbox"/> Low-income Weatherization                | <input type="checkbox"/> Waste management and recycling                         |
| <input type="checkbox"/> Energy building codes                   | <input checked="" type="checkbox"/> Manufacturing                 | <input type="checkbox"/> Water systems  |
| <input type="checkbox"/> Energy consumption and price statistics | <input type="checkbox"/> Motors and other industrial systems      | <input checked="" type="checkbox"/> Wind energy                                 |
| <input type="checkbox"/> Energy emergency planning               | <input type="checkbox"/> Performance contracting                  |   |
| <input type="checkbox"/> ENERGY STAR                             | <input checked="" type="checkbox"/> Policy and energy legislation |   |

5. Estimated Annual Energy Savings : 10,661,192.00 MBtus

## 6. Description (executive summary of goals and objectives)\* :

The GEO's 2008 Report entitled "Connecting Colorado's Renewable Energy Resources to the Markets" provides evidence that there are high-value wind and solar resources in Colorado to exceed Colorado's renewable energy standard and to serve a resource for export to the Southwest. The Transmission Program is researching and writing a detailed transmission report (the Renewable Energy Development Infrastructure [REDI] Project) under a grant from the DOE's Office of Electricity, to be completed by August 1, 2009. The Transmission Program intends to maintain momentum from the REDI report by forming an implementation team of subject matter experts to follow through on the key recommendations that will stem from the REDI Report.

GEO expects its analysis to lead to the intallation of 4 wind and 1 solar projects totaling 2,000 MW

DOE F 540.1  
(08/05)

**U.S. Department of Energy  
STATE ENERGY PROGRAM (SEP)  
NARRATIVE INFORMATION WORKSHEET**

OMB: Control No. 1910-5126  
Expiration Date: 06/30/08

**(Grant Number: EE00082 )**

Market Title: Transmission

7. Program Year Milestones\* :

Milestone		Planned (Number)
1	Case Studies	4
2	In-state technical and outreach assistance meetings	6

8. Standard metrics (required)\*\*

JOB METRICS	Planned
<b>Job Creation</b>	
<b>Jobs created through Recovery Act funds</b>	
Jobs created	5

9. Specific metric activity (required)\*\*

SPECIFIC METRICS	Planned
<b>Renewable Energy Market Development</b>	
<b>Wind energy systems installed</b>	
Number of systems installed	4
Total capacity of systems installed	2,000

10. User specified metrics (optional)\*

METRICS	Planned
<b>Workshops, Training, and Education</b>	
<b>Workshops, training, and education sessions, by sector</b>	
Number of workshops, training, and education sessions held (Other)	6
Number of people attending (Other)	500

11. Program Year Funds by Source\*

a. SEP Grant (all funds in the approved budget)	
DOE	\$388,849.00
<b>Market Budget Total</b>	<b>\$388,849.00</b>
b. Leveraged funds anticipated (outside approved budget)	

\*Please use additional pages if more space is needed.

\*\*Mandatory requirement

**State Plan - Master File Worksheet****State: CO Program Year: 2009**

This worksheet should be completed as specified in Section III of the State Energy Program Application Package.

**1. Description of State Energy Goals to be achieved (10CFR 420.13.b.2)**

The Colorado Governor's Energy Office (GEO) will prioritize and expand existing programs to reduce unemployment as quickly as possible. ARRA funds will be used to create new programs in residential and commercial buildings and transportation.

The GEO programs created with recovery funding will be designed to sustain themselves after the flow of funds has subsided. New programs will be part of a broader, comprehensive energy strategy that emphasizes cost-effectiveness and economic growth.

Current Colorado goals (as of 2008)

- 25% or more improvement (from 1990 baseline) in energy efficiency by 2012
- 20% reduction in energy use by Colorado state government by 2011.
- Increasing the renewables on the electricity grid to 20% by 2020.
- An overall reduction in carbon emissions 20% below 2005 levels by 2020.
- An increase in the use of biofuels in Colorado.

Governor Ritter's Colorado Climate Action Plan is a call to reduce emissions of greenhouse gases by 20 percent over 2005 levels by 2020, and makes a shared commitment with other states and nations to even deeper emissions cuts by 2050.

**2. Selection of State Goals (10CFR 420.13.b.2.ii)**

The goals of the Colorado State Energy Plan reflect the GEO's mission and focus and follow the SEP regulatory framework. The GEO will invest State Energy Program (SEP) funding in the following focus areas:

- Direct and immediate investment for fast economic impact,
- Business development,
- Reduce barriers for widespread adoption and access to efficiency and renewable resources.

To reduce barriers, the investment strategy will focus on three primary areas intended to develop a strong foundation for the continued success of the New Energy Economy in Colorado.

Access to Services

Numerous areas across the state have an insufficient number of service providers to meet an increased demand for efficiency and renewable energy services. The Access to Services strategic investment will concentrate on:

- Certification programs combined with scholarships for training in targeted areas of the state
- Expansion of existing businesses into underserved areas
- Workforce training development including curriculum development and deployment at community colleges, workforce centers and union training facilities.

Successful completion of certification programs will qualify contractors for inclusion in a newly developed state services database.

Access to Capital

Too often decisions to invest in energy efficient options are abandoned due to an inability of the consumer to finance the more energy efficient option or inability to meet the up-front costs of a renewable energy investment. Financing opportunities will be established to ease access to capital for the credit worthy consumer.

**State Plan - Master File Worksheet (continued)****State: CO Program Year: 2009**

Potential programs include:

- Residential and Small Business Finance program
- Revolving loan programs
- Incentives for merchants
- Interest rate buy-downs for investments
- Capitalization of banks for specific investments at a low interest rate

Access to Information

With 57 utilities, 271 municipalities, and 64 counties in the state, there are a myriad of EE and RE incentives, technologies, programs, and service to choose from. Combined with changing state and federal government incentives, it is nearly impossible for an individual or business to determine the best options for efficiency and renewable products.

Furthermore, the “Access to Information” component of the investment strategy will connect the “Access to Capital” and “Access to Services” components, creating a comprehensive system for advancing energy efficiency and renewable energy.

The Access to Information component will include a robust media outreach campaign and educational information to help consumers understand his or her options.

Programmatic Distribution

## Debt Financing

- Provide direct debt capital for shovel ready projects that have lost funding in the later stages of development due to the credit crisis
- Provide revolving loans for selected projects at low or no interest using existing banking infrastructure
- Provide seed financing for loan programs to advance residential and small commercial efficiency and renewable upgrades

## Business Development Assistance

- New Energy Economy Development (NEED) Grants

## Access to Services

- Training for home energy raters
- Training for solar installers
- Training for insulation contractors and other energy efficiency trades
- Development of a statewide database of service providers

## Access to Financing

- Financing for Energy Efficiency and Distributed Generation
- Renewable energy targeted incentives
- Solar Revolving Loan for the Investment Tax Credit (ITC)

**State Plan - Master File Worksheet (continued)****State: CO Program Year: 2009****Access to Information**

- Web-based interface for residents and homeowners to receive information on incentives, service providers and financing opportunities
- Telephone hotline
- Consumer education and outreach

**Administration**

- Contracting of Monitoring and Verification of measures for transparency and accountability objectives
- General contracting, accounting and administrative costs of recovery investment initiatives

**3. Measuring Achievements (10CFR 420.13.b.2.iii)**

All aspects of the SEP are divided into specific categories with an assigned program manager. Moreover, the GEO employs four regional representatives, who live and work in the local communities around the state. They are the GEO's direct connection to city managers, county administrators, and non-profit community groups that deliver service locally. The GEO first annual report is available on the GEO website:

<http://www.colorado.gov/energy/index.php?/resources/category/publications/>

GEO intends to measure achievements according to the guidelines provided in the ARRA:

Jobs saved or created

Energy Reductions

Greenhouse gas emission reductions

Cost effectiveness

Ability to leverage other funds and resources

Accountability, transparency

**4. State Strategy (10CFR 420.13.b.2.iv)**

The program outlined in Colorado's State Energy Plan reflects the GEO's mission of advancing energy efficiency, renewable and clean energy resources in Colorado. The SEP activities as part of the GEO's work are fully integrated within the programmatic and experiential offerings of the GEO. Each of the GEO programmatic offerings partner with community, utility and non profits and feature leveraged dollars from those partners.

**5. 25% or more improvement in the efficiency of use of energy by 2012 (1990 baseline)**

Colorado will focus its efforts on the delivery of a full complement of residential energy-efficiency programs for new and existing homes. The New Homes Programs will focus on the industry and the existing infrastructure of code enforcement at the local levels. Goals include:

- Increasing penetration of energy star home sales and construction
- Increasing the energy efficiency code adoption around the state to IECC 2009
- Creating a market demand for higher efficiency home construction

Residential existing homes programs are focused on all aspects of increasing the energy efficiency of a home. Traditional Demand Side Management programs are the primary focus of this effort.

- Insulation Levels
- Furnace Upgrades

## State Plan - Master File Worksheet (continued)

State: CO Program Year: 2009

- Appliances
- Lighting

The GEO High Performance Building (HPB) Program aims to affect long-term market transformation in the field of energy efficient and high performance green buildings. High Performance Building drives the value of the built environment in communities through a collaborative process encompassing funding, planning, design, construction, maintenance and operation.

The Energy Efficiency for Existing Buildings Program provides a host of sub programs help agencies reduce their energy and carbon emissions and participate in the New Energy Economy. These offerings include facilitating Energy Performance Contracts projects for public agencies throughout Colorado, providing energy management expertise to K-12 market, promoting and aiding in the wide spread installation of cost effective energy efficient technology, bringing new and innovative energy efficient technology into the market, bringing recognition to agencies on the forefront of energy efficiency and emission reduction implementation.

The GEO is developing a “Main Street Energy Retrofit” program. The GEO anticipated services include energy efficiency and renewable energy feasibility studies, guidance to building owners and operators to reduce energy consumption and finance retrofit projects. GEO expects an estimated average reduction of 10 to 15 percent energy savings. Water savings and reduced maintenance costs are additional benefits. Utility DSM programs, grants from other state agencies, and local contributions will help owners pay for improvements.

The change in the economic conditions of Colorado and the U.S. has forced thousands of renewable energy projects to be tabled until the credit markets begin investing again. Understanding the ARRA SEP funds are to be used to overcome the present financial barriers to investments in renewable energy, with the ARRA funding, the Governor's Energy Office will significantly expand its current Renewable Energy Rebates and Grants Program.

The GEO Renewable Energy Team (RET) has identified (16) sixteen different technology categories that will be eligible for grants across the residential, commercial and industrial/utility sectors. The various rebate programs the GEO plans to offer with ARRA funding include:

**Residential Commercial Industrial/Utility-scale**

Solar photovoltaic and hot water      Solar photovoltaic and hot water      Anaerobic digesters  
 Solar photovoltaic and hot water (for 100% AMI households)      Community Wind      Biofuel retail stations  
 Small wind      Transpired solar (air preheat)      Exploratory geothermal well drilling  
 Ground source heat pumps      Biomass boilers  
 Solar mortgage closing costs      Renewable Energy in Energy Performance Contracting

The State's “lead-by-example” effort, Greening Government will continue to work with state agencies, colleges and universities to reduce the consumption of the following resources:

Energy 20%; Water 10%; Paper 20%; Petroleum 25%

**State Plan - Master File Worksheet (continued)****State: CO Program Year: 2009**

The Colorado Industrial Challenge and Recognition program is targeted at the state's 100 largest energy users with recognition awards from the Governor. The GEO expects 15 participants in 2009, 30 participants in 2010, and 60 participants in 2011. The program will provide industrial assessments, demand side management, and energy expertise.

The Governor's Energy Office will conduct a set of major education and outreach climate policy activities, electric generation, and general energy profile data on state utilities. The Electric and Gas Utilities Program will develop a suite of products, which will create a strong vision to accomplish the emission reduction goals within the Climate Action Plan for utility customers, electric utilities and the Colorado legislature.

**6. Mandatory Activities (10CFR 420.13.b.4.v and 15)**

**State Plan - Master File Worksheet (continued)****State: CO Program Year: 2009**

a) Lighting Efficiency Standards - GEO helps to distribute a guidebook for architects to decision-makers and professionals involved in designing new buildings to encourage use of lighting standards. GEO's leading efforts through Rebuild Colorado and performance contracting has made large strides in improving lighting efficiency in Colorado state and local government buildings, as well as schools. GEO maintains contact with lighting experts and disseminates pertinent information to contractors, builders and installers.

(b) Carpools, Vanpools and Public Transportation - Colorado currently has four of the 12 actions described in SEP regulations in place. They are:

- Park and Ride lots - Regional Transportation District administers this service
- Preferential traffic control for public transportation patrons. The City and County of Denver and the CO Dept of Transportation administer this activity.
- Exemption of carpools and vanpools from regulation carrying status.
- Variable work schedules. Various companies and governments voluntarily offer variable work schedules, including GEO.

Past Transportation Partnerships and Smart Growth contracts helped to involve communities in the establishment of affordable development and growth management as well as economic development and health. Overcrowding was addressed. These contracts initiated transportation systems and policies for various communities. Various recreation and alternative commuting corridors continue to be established by the communities' transportation systems. Our office continues to work with Governor's staff and state agencies to implement Colorado's Smart Growth Initiative.

(c) Standards in Procurement Policies - Through previous efforts, GEO has successfully integrated energy efficient procurement practices into the state Division of Purchasing. The state now considers energy efficiency in the procurement of vehicles, and office equipment. GEO is not currently expending SEP resources to support these practices. The state developed procurement and contracting documents for energy performance contracting in state facilities. The state has enacted legislation to require the consideration of environmental specifications in the procurement of state goods.

(d) Thermal Efficiency Standards - GEO established thermal efficiency standards for non-residential buildings. The Energy Guidelines project worked with local governments and engineers to provide training and assistance with the standards. Approximately 30 to 35% of all commercial buildings being built in Colorado are under energy standards adopted through this program with more jurisdictions working on adopting the Colorado-specific energy standards. Follow-up effort through SEP and special projects will help train jurisdictions on how to administer the standards, particularly as the IECC 2003 "pursuant to recently enacted legislation whereby all local jurisdictions with a building code must comply with IECC 2003."

The GEO will issue a documented quote (DQ) for energy code support training by May, 2009. This DQ will cover 30 training sessions from June to August. Under the SFY 08-09 SEP budget, 12 sessions need to be delivered by June 30, 2009. The remaining 18 sessions should be budgeted for SFY 09-10 SEP dollars. The SFY 08-09 SEP portion is expected to be between \$30,000 and \$50,000. The SFY 09-10 SEP funding is potentially \$50,000 to \$100,000.

**State Plan - Master File Worksheet (continued)****State: CO Program Year: 2009**

(e) Right Turn on Red - The State of Colorado has had a Right Turn on Red law in effect since 7/1/70. This law is cited in the Colorado Revised Statutes, Title 42, Article 4, and Pat 505. Colorado is in compliance with this required SEP program measure. GEO is currently not expending resources to support this measure.

(f) Coordination of Energy Programs within the State - GEO maintains a close working relationship with the DOE Golden Field Office to ensure close federal-state communications and program delivery. GEO also administers the WAP program and maintains close ties to the LIHEAP program. GEO works closely with local governments in a variety of energy efficiency and renewable energy program areas, and acts as a central clearinghouse for state and federal information and contacts.

**7. Environmental Impact (10CFR 420.13.b.5)**

The first annual GEO report provides an assessment of the programs' environmental impact.

<http://www.colorado.gov/energy/index.php?/resources/category/publications/>

In 2008, the GEO was recognized as a Gold Leader in the state's Environmental Leadership Program, sponsored by the Colorado Department of Public Health and Environment. The GEO was recognized for practices that reduce the GEO impact on the environment, such as reduced energy consumption in our office space, reduced petroleum consumption in state fleet vehicles, the office staff commitment to commuting on public transportation, and our development of a guide to hosting environmentally-friendly conferences, meetings, and events.

**8. Supplementing Weatherization (10CFR 420.13.b.6)**

The GEO has no programs that specifically follow weatherization's process, but we plan to provide both EE and RE low income assistance programs with ARRA funding. Those programs include the installation of solar PV and solar thermal on some income-qualified homes, and targeted programs to Colorado residents who earn more than 200% of the FPL (thus, not qualified for Weatherization), but earn less than 80% of AMI.

**9. Supplementing State/Local Funds (10CFR 420.13.b.7)**

The vast majority of GEO's programs have been leveraged with either Colorado Clean Energy funds, a community basis with 100% match from the community partners as well as matching dollars from Colorado residents. Given the economic downturn, the allocation of Clean Energy Funds has been reduced, and it is expected that community matches will be more difficult to obtain. Regardless, the GEO plans to leverage competitive grants and EECBG funds with the SEP funds.

**10. Compliance with Laws and Regulations (10CFR 420.13.b.8)**

The state shall comply with all applicable statutes and regulations in effect with respect to the period for which the state receives grant funding

**11. Energy Emergency Plan (10CFR 420.13.b.9)**

GEO will continue its management and updating of the Energy Emergency Plan

**State Plan - Master File Worksheet (continued)****State: CO Program Year: 2009****12. Monitoring Approach** (Annual SEP Guidance)

GEO has established monitoring procedures for contracts which ensure early identification and resolution of any delays in project implementation as well as record-keeping problems.

Contractors are required to submit monthly or quarterly reports which include a project status report and a financial status report within 20 days of the end of each quarter. GEO reviews the reports and promptly follows up on any additional indications of problems.

In addition, contracts are monitored via site visits to ensure adequate communications and to observe contractual tasks in progress. If problems are identified or detected during on-site visits, corrective action is determined and a schedule is made. If appropriate, additional site visits are to be conducted to verify corrective action. Additional site visits are scheduled when a review indicates a need.

In all cases, GEO will promptly notify DOE via our quarterly project status reports, or sooner if deemed necessary, of any major problems with a project as well as any action we or the contractor are taking or will take to rectify the situation.