

**STATE PLAN/MASTER FILE WORKSHEET**  
**State: SD 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)**

To promote and encourage energy conservation, energy efficiency, renewable energy, and alternative transportation fuels in South Dakota.

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

To decrease the dependency on non-renewable energy sources.

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

The State of South Dakota continues to pursue energy savings measures in order to reduce energy consumption in the state. The Governor has signed Executive Order 2006-01, promoting bio-diesel use in the State of South Dakota. The governor directed the SD DOT to stock and use bio-diesel-blended fuel whenever it is available. The State has increased the use of flex-fuel vehicles in the state fleet. The state provides incentives for the production of E-85. The state will install at minimum four E-85 fuelling stations at the DOT shops for use in state vehicles. The state has constructed and is operating their first woody biomass boiler system replacing the existing propane boiler system.

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

1. Projects must meet a reasonable payback period.
2. State will participate financially up to 100% of project costs, but matching will be encouraged.
3. Financial assistance via grants or loans will provide an incentive to complete energy efficient projects.
4. Grant applications will be accepted year-round, but loan applications will be accepted once annually to evaluate and compare projects.
5. State staff will be available for technical assistance and promotion of energy conservation measures

**5. 25% energy efficiency improvement from 1990 level**

The state will measure achievements to ensure that they are consistent with the objectives of the state and federal goals and guidelines. This will be accomplished by providing funding to only those project that show a documented energy savings of non-renewable energy sources, monitoring the project to ensure what was proposed in the application is being met.

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

Lighting efficiency standards for public buildings. - South Dakota state law mandates Thermal and Lighting Efficiency Standards for public buildings. The State Energy Program will continue to inform and educate cities and counties on compliance with the standards and provide technical assistance as required.

Public Transportation - The State of South Dakota exempts car and van pools from the regulation carrying status. This includes motor vehicles used in car pools and vanpools, which operate on a nonprofit basis and used principally for providing prearranged transportation of person to and from their place of employment.

Government Procurement - The State Energy Program will continue to coordinate with the office of Purchasing and Printing to ensure that Life Cycle Costing and energy efficiency is considered in purchases. The program will make information available to local governments and the commercial sector.

Thermal efficiency - All state owned buildings are required to be designed and constructed to ASHRAE 90.1 – 2007 standards. The state is currently studying model code for commercial buildings. The state has adopted green building practices for new construction of state buildings.

Right-Turn-On-Red - The State Motor Vehicle Code allows a right turn after stopping at a red traffic light. The State Energy Program will continue to monitor the driving public's awareness of this law.

Coordination Efforts - That State of South Dakota continuously works with South Dakota Housing Development Authority, the Department of Social Services, and Public Utilities Commission to assure that energy efficiency, renewable energy and alternative transportation programs are publicized.

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

No environmental impact is expected in administering the State Energy Program. However, if an environmental impact is determined on an energy conservation project, the local institution or grantee will be required to take the appropriate action and comply with applicable laws and regulations.

**STATE PLAN/MASTER FILE WORKSHEET (continued)**

**State: SD Program Year: 2009**

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

This program does not provide for the installation or purchase of materials or equipment for weatherization of low-income housing.

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

The state has established policies and procedures to assure that federal financial assistance for the state plan will be used to supplement state and local funds.

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

The state will comply with all applicable statutes and regulations for which the state receives grant funding.

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

The State of South Dakota has an Emergency Mitigation Plan, prepared by the SD Department of Emergency Management, which addresses energy strategies for emergencies

**12. Monitoring Approach (Annual SEP Guidance)**

The state will monitor projects continuously. Desk monitoring will be completed and technical assistance will be provided during the entire project. On-site monitoring will be completed on an as needed basis. Measurement and verification practices will be implemented for all projects completed under the State Energy Plan.

**Administration** - Administration of the American Recovery and Reinvestment Act State Energy Plan grant. Administration includes evaluating, awarding, monitoring, and reporting all grants and loans awarded through the American Recovery and Reinvestment Act State Energy Plan pursuant to federal requirements.

Administration expenses include the yearly NASEO dues. NASEO provides a great service to the member states, by staying apprised of all energy-related issues in Congress and being a unified voice for the energy offices.

The South Dakota energy office is located in the Office of the State Engineer, a division of the Bureau of Administration. The engineers in the Office of the State Engineer will provide technical guidance and application oversight to each of the state owned campuses in preparation of their project applications for consideration of ARRA SEP funding. To facilitate that oversight the energy office is providing funds to pay for administration expenses for the engineers.

Administrative expenses including personnel, benefits, travel, supplies and NASEO dues will be approximately 58,000 per year with an additional 40,000 the first year for OSE technical oversight.

**ARRA Energy Efficient Government – Buildings** - The State will award a limited number of grants to state institutions for up to 100% of the cost of energy audits and/or technical feasibility studies. Under this program, the State may make grants in conjunction with loans under the ARRA Energy Efficient Government program and/ or grants under the SEP Energy Efficient Government program for the purpose of supplementation; however, savings will only count once. The State will also award grants to develop a program to create and implement building codes in South Dakota. The State may also provide grants to further renewable technology development across South Dakota.

Energy efficient government funds will fund energy audits of state owned buildings. The SEO will award grants and/or loans to implement projects with a reasonable payback identified due to the technical energy analysis.

New construction is not eligible. Grants can not supplant other state or local funds.

Though there may be exceptions, local-matching funds may be required. A match will not be valid unless and until the sub-recipient provides the SEO with a copy of project invoices which total at least the share of match specified in the grant agreement between the SEO and the sub-recipient.

The State Energy Office (SEO) will normally initiate or solicit projects on an ongoing basis. Agencies will follow State law and applicable policies for the duration of the project. The SEO will request sufficient analyses to estimate costs and savings. The SEO must approve all grants before bidding the qualifying project. Normally, the SEO will disperse the funds on a reimbursement basis.

**Program Objectives:** The long-term objectives are to reduce energy costs to the State of South Dakota and to promote energy conservation and efficiency by example. The program facilitates these objectives by working with State institutions to identify cost-effective energy efficiency and conservation measures and assist with the cost of the measures. The program will strive to obtain the best long-term savings possible. The benefits of energy cost-savings will flow directly to clients of the respective institutions and to the citizens and taxpayers of South Dakota at large.

**Program Goals:** The goal is to implement 6 or more projects costing \$3,000,000 or less to implement energy conservation and efficiency programs throughout South Dakota.

**ARRA Revolving Energy Loan** - The State will award a limited number of loans to state institutions for up to 100% of the cost of commissioning, retro commissioning, a technical energy analysis, or the cost of implementing energy saving projects that demonstrate a reasonable payback. Under this program, the State may make loans in conjunction with grants under the ARRA Energy Efficient Government program and/ or the SEP Energy Efficient Government program for the purpose of supplementation; however, savings will only count once. Evaluation of an energy cost saving project may also incorporate other ancillary benefits such as reduced maintenance costs that result from a better energy saving technology or process. The actual cost of permanent sub-metering that is installed for energy monitoring may be included. Measurement and verification expenses may also be included in the cost of the project.

Energy loans will fund energy conservation projects at state owned buildings. The SEO will award grants and/or loans to implement projects with a reasonable payback identified due to the technical energy analysis.

New construction is not eligible. Loans can not supplant other state or local funds.

The State Energy Office (SEO) will initiate or solicit projects on an annual basis. Agencies will follow State law and applicable policies for the duration of the project. The SEO will request sufficient analyses to estimate costs and savings. The SEO must approve all loans before bidding the qualifying project. Normally, the SEO will disperse the funds on a reimbursement basis.

**Program Objectives:** The long-term objectives are to reduce energy costs to the State of South Dakota and to promote energy conservation and efficiency by example. The program facilitates these objectives by working with State institutions to identify cost-effective energy efficiency and conservation measures and assist with the cost of the measures. The program will strive to obtain the best long-term savings possible. The benefits of energy cost-savings will flow directly to clients of the respective institutions and to the citizens and taxpayers of South Dakota at large.

**Program Goals:** The goal is to implement 20 or more projects costing \$20,495,755 or less, and achieve reasonable simple paybacks.

(Grant Number: EE0000145)

State Title: Administration

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 type="checkbox"/> Energy Education	<input type="checkbox"/> Transportation

2. State: SD

3. Program Year: 2009 Date Start: 04/14/09 Date End: 04/30/12

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

<input type="checkbox"/> Agriculture	<input type="checkbox"/> Federal, state, and local facilities	<input type="checkbox"/> Procurement of efficient products **
<input type="checkbox"/> Alternative fuels	<input type="checkbox"/> Federal Energy Management Program	<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 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 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 type="checkbox"/> Solar power
<input checked="" type="checkbox"/> Climate change planning	<input type="checkbox"/> Home energy ratings	<input 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 type="checkbox"/> Industries of the future	<input type="checkbox"/> Transmission and infrastructure reliability
<input type="checkbox"/> Distributed energy generation	<input type="checkbox"/> Lighting **	<input 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 type="checkbox"/> Water systems
<input type="checkbox"/> Energy consumption and price statistics	<input type="checkbox"/> Motors and other industrial systems	<input type="checkbox"/> Wind energy
<input type="checkbox"/> Energy emergency planning	<input type="checkbox"/> Performance contracting	
<input type="checkbox"/> ENERGY STAR	<input type="checkbox"/> Policy and energy legislation	

5. Estimated Annual Energy Savings: 1.00 MBtus

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

Administration of the American Recovery and Reinvestment Act State Energy Plan grant. Administration includes evaluating, awarding, monitoring, and reporting all grants and loans awarded through the American Recovery and Reinvestment Act State Energy Plan pursuant to federal requirements.

Administration expenses include the yearly NASEO dues. NASEO provides a great service to the member states, by staying apprised of all energy related issues in Congress and being a unified voice for the energy offices.

The South Dakota energy office is located in the Office of the State Engineer, a division of the Bureau of Administration. The engineers in the Office of the State Engineer will provide technical guidance and application oversight to each of the state owned campuses in preparation of their project applications for consideration of ARRA SEP funding. To facilitate that oversight the energy office is providing funds to pay for administration expenses for the engineers.

7. Program Year Milestones\*

	Milestone	Planned (Number)
1	Implement the State Energy Plan	4
2	Prepare quarterly reports	4
3	On-site monitoring	12
4	Attend DOE and energy meetings or training	2

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

\*\*Mandatory requirement

8. Standard Metrics (required):\*\*

JOB METRICS	Planned
Jobs Created	0
Jobs Retained	1
TOTAL JOBS	1

9. Specific Metric Activity (required):\*\*

Metric Activity: Administration

SPECIFIC METRICS	Planned
Prepare 4 quarterly reports for all activities	4
Prepare annual report for all activities	1

10. User Specified Metrics (optional): \*

METRICS	Planned

11. Program Year Funds by Source \*

	Planned
a. SEP grant (all funds in the approved budget)	
DOE	\$213,245
	\$
Market Budget Total	\$213,245
b. Leveraged funds anticipated (outside approved budget)	
	\$
	\$

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

**\*\*Mandatory requirement**

(Grant Number: EE0000145)

State Title: ARRA Energy Efficient Government - Buildings

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 type="checkbox"/> Energy Education	<input type="checkbox"/> Transportation

2. State: SD

3. Program Year: 2009 Date Start: 04/14/09 Date End: 04/30/12

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

<input type="checkbox"/> Agriculture	<input checked="" type="checkbox"/> Federal, state, and local facilities	<input type="checkbox"/> Procurement of efficient products **
<input type="checkbox"/> Alternative fuels	<input type="checkbox"/> Federal Energy Management Program	<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"/> Biomass 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 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 type="checkbox"/> Solar power
<input type="checkbox"/> Climate change planning	<input type="checkbox"/> Home energy ratings	<input 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 type="checkbox"/> Industries of the future	<input type="checkbox"/> Transmission and infrastructure reliability
<input type="checkbox"/> Distributed energy generation	<input checked="" type="checkbox"/> Lighting **	<input type="checkbox"/> Transportation alternatives
<input 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 type="checkbox"/> Wind energy
<input type="checkbox"/> Energy emergency planning	<input type="checkbox"/> Performance contracting	
<input type="checkbox"/> ENERGY STAR	<input type="checkbox"/> Policy and energy legislation	

5. Estimated Annual Energy Savings: 3,000 MMBtus

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

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**Program Goals:** The goal is to implement 6 or more projects costing \$3,000,000 or less to implement energy conservation and efficiency programs throughout South Dakota.

7. Program Year Milestones\*

Milestone		Planned (Number)
1	Review Applications	30
2	Provide Technical Assistance	6
3	On-site monitoring	6
4	Desk Monitoring	60

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

\*\*Mandatory requirement

8. Standard Metrics (required):\*\*

JOB METRICS	Planned
Jobs Created	15
Jobs Retained	15
TOTAL JOBS	30

9. Specific Metric Activity (required):\*\*

Metric Activity: ARRA Energy Efficient Government

SPECIFIC METRICS	Planned
Technical Analysis of applications	30
Design review of projects	6
Inspections	6
Compilation of energy savings and cost evaluation	24
Prepare quarterly reports	4

10. User Specified Metrics (optional): \*

METRICS	Planned

11. Program Year Funds by Source \*

a. SEP grant (all funds in the approved budget)	Planned
DOE	\$3,000,000
Market Budget Total	\$3,000,000
b. Leveraged funds anticipated (outside approved budget)	
	\$
	\$

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

\*\*Mandatory requirement

(Grant Number: EE0000145)

State Title: ARRA Revolving Energy Loan

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 type="checkbox"/> Energy Education	<input type="checkbox"/> Transportation

2. State: SD

3. Program Year: 2009 Date Start: 04/14/09 Date End: 04/30/12

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

<input type="checkbox"/> Agriculture	<input checked="" type="checkbox"/> Federal, state, and local facilities	<input type="checkbox"/> Procurement of efficient products **
<input type="checkbox"/> Alternative fuels	<input type="checkbox"/> Federal Energy Management Program	<input type="checkbox"/> Public information
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<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 type="checkbox"/> Wind energy
<input type="checkbox"/> Energy emergency planning	<input type="checkbox"/> Performance contracting	
<input type="checkbox"/> ENERGY STAR	<input type="checkbox"/> Policy and energy legislation	

5. Estimated Annual Energy Savings: 200,000 MMBtus

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

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Program Goals: The goal is to implement 20 or more projects costing \$20,495,755 or less, and achieve reasonable simple paybacks.

7. Program Year Milestones\*

Milestone		Planned (Number)
1	Review Applications	20
2	Provide Technical Assistance	20
3	On-site monitoring	12
4	Desk Monitoring	24

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

\*\*Mandatory requirement

8. Standard Metrics (required):\*\*

JOB METRICS	Planned
Jobs Created	22
Jobs Retained	200
TOTAL JOBS	222

9. Specific Metric Activity (required):\*\*

Metric Activity: ARRA Energy Loan

SPECIFIC METRICS	Planned
Technical Analysis of applications	20
Design review of projects	20
Inspections	12
Compilation of energy savings and cost evaluation	80
Prepare quarterly reports	4

10. User Specified Metrics (optional): \*

METRICS	Planned

11. Program Year Funds by Source \*

a. SEP grant (all funds in the approved budget)	Planned
DOE	\$20,495,755
Market Budget Total	\$20,495,755
b. Leveraged funds anticipated (outside approved budget)	\$
	\$

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

\*\*Mandatory requirement