



AMERICAN RECOVERY AND REINVESTMENT ACT OF 2009: ENERGY-RELATED APPROPRIATIONS (Updated on June 1, 2009)

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On February 17, 2009, President Obama signed into law the American Recovery and Reinvestment Act of 2009 (“the ARRA” or “the Act”), often referred to as the “Stimulus Bill.” The ARRA includes a significant number of provisions that focus on the energy industry. While the appropriated funds are significant, the Act is largely silent on a key issue: How can an entity access ARRA funds? The answer, of course, is not simple. Since the ARRA was signed into law, the agencies charged with administering the appropriations have begun to provide details about their appropriation approaches and processes.

The following chart focuses on those appropriations in the Act that are related to energy. These energy-related appropriations range from loans and grants for developing technologies in the areas of carbon capture, alternative fuel vehicles, and transmission

grid modernization, to funds allocated to public agencies and nonprofit organizations for facility retrofits that improve energy efficiency, to funding for renewable energy research, development, and deployment activities, and more. (This chart does not address the tax provisions in the Stimulus Bill, which were extensively discussed in a [February 2009 Jones Day White Paper](#) entitled “American Recovery and Reinvestment Tax Act of 2009: Description of Key Business Provisions.”)

Due to the Act’s unprecedented levels of funding, changes to and expansions of existing programs, and the creation of new programs, implementation efforts will be as varied as the government agencies and departments (and subunits thereof) that oversee the affected programs. Accordingly, the chart below, which is organized by government department

or agency, will be updated periodically to reflect the latest ARRA implementation news, including funding opportunity announcements, development of program guidelines and rules, and other relevant status reports. Our goal is to provide a readily accessible source of ARRA-related implementation information. We welcome any comments or feedback.

Departments and Agencies Covered:

- [Department of Energy](#)
- [Environmental Protection Agency](#)
- [Department of Defense](#)
- [General Services Administration](#)
- [Department of the Interior](#)
- [Department of Housing and Urban Development](#)
- [Department of Transportation](#)
- [Department of Labor](#)
- [Department of Veterans Affairs](#)
- [Department of Education](#)

FURTHER INFORMATION

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AMERICAN RECOVERY AND REINVESTMENT ACT OF 2009: ENERGY-RELATED APPROPRIATIONS

Updated June 1, 2009

KEY: FUNDING IMPLICATIONS FOR PRIVATE SECTOR/BUSINESSES

PROGRAM

Bold: Direct Funds Available

Italics: Potential Indirect Funds

Standard: Funding Unlikely or N/A

MISCELLANEOUS

- A PDF version of the ARRA is available at:
http://frwebgate.access.gpo.gov/cgi-bin/getdoc.cgi?dbname=111_cong_bills&docid=f:h1enr.pdf.
- To view a PDF version of the JES, visit the website below and click on "Joint Explanatory Statement - Division A":
http://www.rules.house.gov/bills_details.aspx?NewsID=4149

ACRONYMS

ARRA:	American Recovery and Reinvestment Act of 2009
BPA:	Bonneville Power Administration
CERCLA:	Comprehensive Environmental Response, Compensation, and Liability Act
DOD:	Department of Defense
DOE:	Department of Energy
ECPA:	Energy Conservation and Production Act
EERE:	DOE Office of Energy Efficiency and Renewable Energy
EISA:	Energy Independence and Security Act of 2007
EPA:	Environmental Protection Agency
EPAct 05:	Energy Policy Act of 2005
EPCA:	Energy Policy and Conservation Act
FERC:	Federal Energy Regulatory Commission
FO:	Funding Opportunity
FOA:	Funding Opportunity Announcement
JES:	Joint Explanatory Statement of the Committee of Conference
N/A:	Not applicable
N/S:	Not specified
NARUC:	National Association of Regulatory Utility Commissioners
NETL:	National Energy Technology Laboratory
NGO:	Nongovernmental organization
OEDER:	DOE Office of Electricity Delivery and Energy Reliability
OEM:	DOE Office of Environmental Management
R&D:	Research and Development
RFA:	Request for Applications
TBD:	To be determined
WAPA:	Western Area Power Administration

SIGNIFICANT UPDATES

WEEK OF MAY 25, 2009

Department of Energy

- **I.E.5. Wind-Related Projects/Programs** – On May 29, the Golden Field Office announced funding for Wind Energy Consortia Between Institutions of Higher Learning and Industry, FOA No. DOE-FOA-0000090. Application due date: July 29, 2009, 11:59 PM Eastern Time.
- **I.E.4. Solar-Related Projects/Programs** – On May 27 and 28, the Golden Field Office announced:
 - High Penetration Solar Deployment, FOA No. DOE-FOA-0000085. Application due date: July 30, 2009, 11:59 PM Eastern Time.
 - National Laboratory Call for Foundational Photovalics and Concentrating Solar Power R&D. Application due date: July 15, 2009, 11:59 PM Eastern Time.
 - Solar Market Transformation, FOA No. DOE-FOA-0000078. Application due date: July 30, 2009, 11:59 PM Eastern Time.
- **I.E.2. Geothermal Activities and Projects** – On May 27, the Golden Field Office announced funding for the Geothermal Technologies Program, FOA No. DOE-FOA-00000109. Application due date: July 22, 2009, 11:59 PM Eastern Time.

WEEK OF MAY 18, 2009

Department of Energy

- **II.A. Smart Grid Programs** – On May 18, DOE announced a raised award ceiling under the Smart Grid Investment Grant Program from \$20 million to \$200 million, and a raised award ceiling for regional Smart Grid demonstrations from \$40 million to \$100 million.
- **II.A.1. Smart Grid Interoperability Framework** – On May 18, the first 16 interoperability standards recognized by the National Institute of Standards and Technology were announced.
- **VI. Fossil Energy R&D** – Between May 19-22, NETL issued Notices of Intent to issue FOAs for five different fossil energy R&D areas.

WEEK OF MAY 11, 2009

Department of Energy

- **IV. WAPA – Increased Borrowing Authority for Transmission Projects** – On May 14, WAPA's Transmission Infrastructure Program, i.e., WAPA's policies and practices for exercising its new borrowing authority, was published in the Federal Register.

WEEK OF MAY 4, 2009

Department of Energy

- **I.E.1. Biomass Projects** – On May 7, the Golden Field Office announced funding for Demonstration of Integrated Biorefinery Operations, FOA No. DOE-FOA-0000096. Application due date: June 30, 2009, 11:59 PM Eastern Time.

DEPARTMENT OF ENERGY

<http://www.energy.gov/recovery/>

PROVISION LOCATION	FUNDING	INDUSTRY/ SUBJECT MATTER	PROGRAM	PROGRAM OR FO DESCRIPTION	CRITERIA FOR FUNDING	IMPLEMENTATION/STATUS	NOTES
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> IV</p> <p><u>Page:</u> HR 1-24</p> <p><u>Heading:</u> Energy Programs— Energy Efficiency and Renewable Energy</p>	<p>\$16.8 B</p>	<p>N/A</p>	<p>I. Energy Efficiency and Renewable Energy Programs</p>	<p>A. Energy Efficiency and Conservation Grants B. Weatherization Assistance Programs C. State Energy Program D. Advanced Battery Manufacturing Grants E. Energy Research, Development, Demonstration, and Deployment Activities F. Alternative Fueled Vehicles Pilot Program G. Transportation Electrification H. Energy Efficient Appliance Rebate Program and Energy Star Program</p>	<p>N/A</p>	<p>N/A</p>	<ul style="list-style-type: none"> \$16.8 B is the blanket amount Congress appropriated for programs funded under the heading “Energy Efficiency and Renewable Energy.”
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> IV</p> <p><u>Page:</u> HR 1-24</p> <p><u>Heading:</u> Energy Programs— Energy Efficiency and Renewable Energy</p>	<p>\$3.2 B (out of \$16.8 B)</p>	<ul style="list-style-type: none"> Efficiency/ Conservation Emissions 	<p>I.A. <i>Energy Efficiency and Conservation Grants</i></p>	<p>Grants to states, local governments, and Indian tribes to help implement strategies/programs to:</p> <ul style="list-style-type: none"> Reduce fossil fuel emissions; Reduce their total energy use; and Improve energy efficiency in the transportation, building, and other appropriate sectors. <p>Examples of strategies and programs:</p> <ul style="list-style-type: none"> Residential/commercial building energy audits; Financial incentives for energy efficiency improvements (e.g., loan programs, rebate programs); Grants to nonprofit orgs to perform energy efficiency retrofits; Programs to conserve energy used in transportation (e.g., employee flex time, 	<p>\$2.8 B allocated by formula:</p> <ul style="list-style-type: none"> 68% to local govts, for every city with a population of 35,000 or more, every county with a population of 200,000 or more, and the 10 most populous cities and counties in each state; 28% to states, with each state required to pass through at least 60% of its funding share to cities and counties not receiving direct formula funding (but state may decide how to award these funds); and 2% to Indian tribes. <p>\$400 M awarded on a competitive basis, and all entities eligible for program funds, either through direct grants from DOE or from subgrants from states, will be eligible. The award</p>	<p>On March 26, 2009, NETL issued FOA No. DE-FOA-0000013 to allow states, local governments, and tribes to apply for funds. See: http://www.netl.doe.gov/busines/solicitations/index.html</p> <ul style="list-style-type: none"> State application due date: May 26, 2009, 8:00 PM Eastern Time. Local government and tribe application due date: June 25, 2009, 8:00 PM Eastern Time. <p>Funds have been allocated to each state. To see funds allotted on a state-by-state basis, see: http://www.energy.gov/recovery and click on your state.</p> <p>For more information on implementation and eligibility, go to: http://www.eecbg.energy.gov/</p>	<ul style="list-style-type: none"> For each unit of local government, no more than 20% or \$250k, whichever is greater, may be used for subgranting to NGOs for assisting in implementing strategies/programs. Grant program created by the EISA, Title V, Subtitle E (42 U.S.C. 17151 et seq.).

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				<p>satellite work centers);</p> <ul style="list-style-type: none"> Technologies to reduce and capture methane and other greenhouse gases generated by landfills, for example; Building on-site energy technology that generates electricity from renewable resources. 	<p>criteria of these competitive grants are to be determined by DOE.</p>		
<p><u>Doc.</u>: ARRA</p> <p><u>Title</u>: IV</p> <p><u>Page</u>: HR 1-24</p> <p><u>Heading</u>: Energy Programs— Energy Efficiency and Renewable Energy</p> <p><u>See also</u>: HR 1-31 to 32, Sec. 407, Weatherization Assistance Program Amendments</p>	<p>\$5.0 B (out of \$16.8 B)</p>	<ul style="list-style-type: none"> Efficiency/ Conservation Residential Service 	<p>I.B. <i>Weatherization Assistance Programs</i></p>	<p>DOE provides money to states to fund weatherization services (e.g., energy-related home repairs, duct insulation, hot water-saving measures) that increase the energy efficiency of residences of low-income persons and reduce their heating and cooling expenses.</p> <p>Service providers from local nonprofit agencies will conduct a home assessment and then make necessary home repairs and install energy efficiency measures in the homes of qualifying homeowners for free.</p>	<p>Service Providers:</p> <ul style="list-style-type: none"> States generally apply for/receive the funds and then appropriate them to community action agencies or other eligible nonprofits in the state. In the event that your state does not apply for funds, a local community action agency or other public or nonprofit entity/unit of general-purpose local government may apply. <p>Service Recipients:</p> <ul style="list-style-type: none"> Must meet income qualification requirement. Must fill out an application and submit it to local agency in order to receive services. <p><u>Issue</u></p> <p>Onus is on homeowner to locate and contact local agency, complete application, and submit it in order to receive services.</p>	<p>On March 12, 2009, NETL issued FOA No. DE-FOA-0000051 to allow states to apply for funds. See: http://www.netl.doe.gov/busines/solicitations/index.html</p> <ul style="list-style-type: none"> Initial application due date: March 23, 2009, 8:00 PM Eastern Time. Comprehensive application due date: May 12, 2009, 8:00 PM Eastern Time. <p>Funds have been allocated to each state. To see funds allotted on a state-by-state basis, see: http://www.energy.gov/recovery and click on your state.</p> <p>Once states receive funds, each state weatherization office will distribute funds to eligible nonprofit public agencies. The nonprofits may subcontract with for-profit businesses to provide the weatherization service (assessment, repairs, installations), though some/many agencies will do work in-house.</p> <p>The following is a link with state weatherization office contacts: http://apps1.eere.energy.gov/weatherization/state_contacts.cfm</p>	<ul style="list-style-type: none"> ARRA increases threshold for household eligibility from 150% to 200% of the federal poverty income levels and increases the per-home maximum assistance from \$2,500 to \$6,500. Priority population = those who are particularly vulnerable: e.g., the elderly, persons with disabilities, families with children, high residential energy users, and households with high energy burden. Program established under ECPA, Title IV, part A (42 U.S.C. 6861 et seq.).

DEPARTMENT OF ENERGY

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<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> IV</p> <p><u>Page:</u> HR 1-24</p> <p><u>Heading:</u> Energy Programs— Energy Efficiency and Renewable Energy</p> <p><u>See also:</u> HR 1-32 to 34, Sec. 410, Additional State Energy Grants</p>	<p>\$3.1 B (out of \$16.8 B)</p>	<ul style="list-style-type: none"> Renewable Energy Efficiency/ Conservation State/Local Programs 	<p>I.C. <i>State Energy Program</i> (“SEP”)</p>	<p>SEP provides grants to states to design and carry out their own renewable energy and energy efficiency programs.</p> <p>Funding for SEP goes to state energy offices in all states and U.S. territories that manage the SEP projects.</p> <p>SEP projects involve anything from:</p> <ul style="list-style-type: none"> Implementing appliance efficiency standards; Transmission studies for renewable energy zones; Public education programs; and Issuing state bonds to finance renewable energy projects. <p>The range is broad. See: http://apps1.eere.energy.gov/state_energy_program/project_briefs_topic.cfm</p> <p>The following is a link to information on energy projects and programs across the country: http://apps1.eere.energy.gov/state_energy_program/projects_all_state.cfm</p>	<p>Eligibility for award is restricted to states that apply for formula grants under SEP.</p> <p>To apply for a grant from the remaining funds, each governor is required to certify to DOE that the state will:</p> <ul style="list-style-type: none"> Decouple utility rates (<i>i.e.</i>, sever utility revenue from the volume of energy delivered to customers); Adopt modern building codes within 8 years; and Prioritize grants to existing state and utility programs. <p><u>Issues:</u></p> <ul style="list-style-type: none"> The governor is required to provide assurance that the regulatory body will seek to implement decoupling, not that actual implementation has occurred. It is unclear what would happen if the governor provides assurance re decoupling, but then implementation does not occur. Adopting modern building codes may be a higher hurdle to certification than decoupling. 	<p>On March 12, 2009, NETL issued FOA No. DE-FOA-0000052 to allow states to apply for funds. See: http://www.netl.doe.gov/business/solicitations/index.html for a link to the FOA and application.</p> <ul style="list-style-type: none"> Initial application due date: March 23, 2009, 8:00 PM Eastern Time. Comprehensive application due date: May 12, 2009, 8:00 PM Eastern Time. <p>Funds have been allocated to each state by formula. To see funds allotted on a state-by-state basis, see: http://www.energy.gov/recovery and click on your state.</p> <p>For more information on grant allocations, see: http://apps1.eere.energy.gov/state_energy_program/funding_states.cfm</p>	<ul style="list-style-type: none"> Program authorized under EPCA, Title III, part D (42 U.S.C. 6321). The usual 20% cost match is not required for grants made with ARRA funds.

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<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> IV</p> <p><u>Page:</u> HR 1-24</p> <p><u>Heading:</u> Energy Programs— Energy Efficiency and Renewable Energy</p>	<p>\$2.0 B (out of \$16.8 B)</p>	<ul style="list-style-type: none"> • Manufacturing • Technology • Automotive 	<p>I.D. Advanced Battery Manufacturing Grants</p>	<p>DOE, through EERE's Vehicles Technologies Program, is providing grants to manufacturers of advanced battery systems and vehicle batteries produced in the U.S., including advanced lithium ion batteries, hybrid electrical systems, component manufacturers, and software designers. Grants are for construction of U.S.-based manufacturing infrastructure.</p> <p>Grant Area of Interest:</p> <ol style="list-style-type: none"> 1. Cell and Battery Pack Manufacturing Facilities—\$1.2 B 2. Advanced Battery Supplier Manufacturing Facilities—\$275 M 3. Combined Applications for Areas of Interest 1 and 2—\$TBD 4. Advanced Lithium Ion Battery-Recycling Facilities—\$25 M 5. Electric Drive Component Manufact'g Facilities—\$350 M 6. Electric Drive Subcomponent Manufact'g Facilities—\$150 M 7. Combined Applications for Areas of Interest 5 and 6—\$TBD 	<ul style="list-style-type: none"> • All types of entities are eligible to apply (subject to certain exceptions for government agencies and contractors and nonprofits). See FOA pages 14–15 for eligibility information. • Cost sharing is required. 	<p>On March 19, 2009, NETL issued FOA No. DE-FOA-0000026. See: http://www.netl.doe.gov/business/solicitations/index.html for a link to the announcement and application.</p> <p>Application due date: May 19, 2009, 8:00 PM Eastern Time.</p>	<ul style="list-style-type: none"> • DOE anticipates making awards with project period durations of 2 to 3 years. • Applications that are ready for immediate initiation will receive higher priority in the evaluation process. • Authorized under EISA Sec. 136.

DEPARTMENT OF ENERGY

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<p><u>Doc.:</u> JES</p> <p><u>Title:</u> IV</p> <p><u>Page:</u> 24</p> <p><u>Heading:</u> Energy Programs— Energy Efficiency and Renewable Energy</p>	\$2.5 B (out of \$16.8 B)		I.E. Applied Energy Research, Development, Demonstration and Deployment Activities	<ol style="list-style-type: none"> 1. Biomass Projects 2. Geothermal Projects and Activities 3. Research to Increase Efficiency of Information and Communications Technology and Improve Standards 4. Solar-Related Projects/Programs 5. Wind-Related Projects/Programs 			<ul style="list-style-type: none"> • \$2.5 B is the blanket amount Congress appropriated for “Applied Energy Research, Development, Demonstration and Deployment Activities.” <p>In the JES, Congress specifically allocated \$1.5 B of the \$2.5 B, but there is another \$1.0 B appropriated under this heading that has not been specifically allocated. Such funds will generally go to R&D for additional renewable energy technologies, including water power and solar energy, and industrial and commercial energy efficiency demonstrations.</p>
<p><u>Doc.:</u> JES</p> <p><u>Title:</u> IV</p> <p><u>Page:</u> 24</p> <p><u>Heading:</u> Energy Programs— Energy Efficiency and Renewable Energy</p>	\$800 M (out of \$2.5 B, out of \$16.8 B)	<ul style="list-style-type: none"> • Research • Technology • Biomass • Demonstration 	I.E. 1. Biomass Projects	<p><u>Demonstration of Integrated Biorefinery Operations</u></p> <p>\$480 M in funds (with awards of up to \$50 M for each project) for selected integrated biorefinery pilot or demonstration projects (i.e., refineries that employ combinations of feedstocks and conversion technologies to produce a variety of products, with the main focus on producing biofuels and bioproducts) that have necessary technical and economic performance data that validates their readiness for the next level of scale-up.</p> <p>Focus of FOA is to validate the performance of the proposed technology, obtain operational information, validate key process metrics, and/or provide continuous operational data at the scale needed to lower the</p>	<p><u>Demonstration of Integrated Biorefinery Operations</u></p> <p>Proposed project must be located within the United States and use a feedstock from a domestic source. In lieu of constructing a new facility, the applicant may propose the use of an existing pilot-scale or demonstration-scale biorefinery as appropriate to one of six topic areas identified in the FOA. Applicants may propose constructing new facilities or modifications to an existing facility (including adding equipment or modules) where it is economically and technically advantageous to do so.</p>	<p><u>Demonstration of Integrated Biorefinery Operations</u></p> <p>On May 7, 2009, the Golden Field Office issued FOA No. DOE-FOA-0000096.</p> <p>For FOA, go to FedConnect, https://www.fedconnect.net/FedConnect/, then click “Search Public Opportunities” and find FOA in table.</p> <p>Notice of Intent to Apply due date: May 29, 2009, 11:59 PM Eastern Time.</p> <p>Application due date: June 30, 2009, 11:59 PM Eastern Time.</p>	<p><u>Demonstration of Integrated Biorefinery Operations</u></p> <p>Integrated biorefineries would produce, as their primary product, a liquid transportation fuel that supports, depending on topic area, meeting the advanced, renewable or advanced biofuels portion of the EISA Renewable Fuel Standards or, depending on topic area, a bioproduct that substitutes for petroleum-based feedstocks and products</p>

DEPARTMENT OF ENERGY

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				<p>technical risks associated with proceeding to the next development step, ultimately culminating in development of a viable commercial plant.</p> <p><u>Funding for Expansion of Infrastructures for Ethanol Blends</u> Purpose of this prospective FOA is to increase the availability and use of potential ethanol blends up to 85 percent ethanol.</p> <p><u>Funding of Development of Algal Biofuels and Advanced Fungible Biofuels through Consortia</u> Purpose of this prospective FOA is to address the interface between fundamental and applied research in these respective areas by utilizing consortiums with the necessary expertise to effectively and efficiently develop algal and advanced fungible biofuels technologies.</p>	<p><u>Funding for Expansion of Infrastructures for Ethanol Blends</u></p> <p><u>Funding of Development of Algal Biofuels and Advanced Fungible Biofuels through Consortia</u></p>	<p><u>Funding for Expansion of Infrastructures for Ethanol Blends</u> Special Notice posted regarding upcoming FOA. See http://www.energy.gov/recovery/funding.htm and click on "Biomass Projects." DOE expects to publish FOA in the summer of 2009.</p> <p><u>Funding of Development of Algal Biofuels and Advanced Fungible Biofuels through Consortia</u> Special Notice posted regarding upcoming FOA. See http://www.energy.gov/recovery/funding.htm and click on "Biomass Projects." DOE expects to publish FOA in the summer of 2009.</p>	<p><u>Funding for Expansion of Infrastructures for Ethanol Blends</u></p> <p><u>Funding of Development of Algal Biofuels and Advanced Fungible Biofuels through Consortia</u></p>
<p>Doc.: JES</p> <p>Title: IV</p> <p>Page: 24</p> <p>Heading: Energy Programs— Energy Efficiency and Renewable Energy</p>	<p>\$400 M (out of \$2.5 B, out of \$16.8 B)</p>	<ul style="list-style-type: none"> • Research • Technology • Geothermal 	<p>I.E.2. Geothermal Activities and Projects</p>	<p><u>Geothermal Technologies Program</u> \$170M, with awards up to \$5 M, for geothermal systems research, exploration, demonstration and development throughout the U.S.</p> <p>Topic Areas: 1. Validation of Innovative Exploration Technologies 2. Geothermal Energy Production from (A) Low Temperature Resources, (B) Coproduced Fluids</p>	<p><u>Geothermal Technologies Program</u> Eligible parties include: institutions of higher education, non-profit and for-profit private entities, state and local governments, Indian tribes, and tribal energy resource development organizations or groups.</p> <p>DOE Federally Funded Research and Development Centers (FFRDCs), non-DOE FFRDCs, National</p>	<p><u>Geothermal Technologies Program</u> On May 27, 2009, the Golden Field Office issued FOA No. DE-FOA-0000109.</p> <p>For FOA, go to FedConnect, https://www.fedconnect.net/FedConnect/, then click "Search Public Opportunities" and find FOA in table.</p> <p>Application due date: July 22, 2009, 11:59 PM Eastern Time.</p>	<p><u>Geothermal Technologies Program</u></p> <ul style="list-style-type: none"> • FOA will focus on areas associated with EISA sections 613 and 616. • See also EPA Act 2005 Section 931(a)(2)(C) related to topic area 3.

DEPARTMENT OF ENERGY

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				from Oil and Gas Wells, and (C) Geopressured Resources 3. Geothermal Data Development, Collection, and Maintenance	Laboratories, and federal agencies are only eligible as sub-recipients provided their scope and budget does not exceed 20% of total project costs.		
<u>Doc.:</u> JES <u>Title:</u> IV <u>Page:</u> 24 <u>Heading:</u> Energy Programs— Energy Efficiency and Renewable Energy	\$50 M (out of \$2.5 B, out of \$16.8 B)	• Research	I.E.3. Research to Increase Efficiency of Information and Communications Technology and Improve Standards	N/S			
<u>Doc.:</u> N/A <u>Title:</u> N/A <u>Page:</u> N/A	< \$1.0 B (out of \$2.5 B, out of \$16.8 B)	• Solar	I.E.4. Solar-Related Projects/Programs	<u>High Penetration Solar Deployment</u> \$17.5 M toward research and development activities to improve understanding of the effects of high-penetration solar electricity on the reliability and stability of the electric power system Topic Areas 1. Improved Modeling Tools Development 2. Field Verification of High-Penetration Levels of PV into the Distribution Grid 3. Modular Power Architecture 4. Demonstration of PV and Energy Storage for Smart Grids <u>National Laboratory Call for Foundational Photovoltaics and Concentrating Solar Power Research and Development</u> Approx. \$17 M for new	<u>High Penetration Solar Deployment</u> <u>National Laboratory Call for Foundational Photovoltaics and Concentrating Solar Power Research and Development</u>	<u>High Penetration Solar Deployment</u> On May 27, 2009, the Golden Field Office issued FOA No. DE-FOA-0000085. For FOA, go to FedConnect, https://www.fedconnect.net/FedConnect/ , then click "Search Public Opportunities" and find FOA in table. Application due date: July 30, 2009, 11:59 PM Eastern Time <u>National Laboratory Call for Foundational Photovoltaics and Concentrating Solar Power Research and Development</u> On May 27, 2009, the Golden Field Office issued Program	<u>High Penetration Solar Deployment</u> <u>National Laboratory Call for Foundational Photovoltaics and Concentrating Solar Power Research and Development</u>

DEPARTMENT OF ENERGY

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				<p>research and development projects for</p> <ol style="list-style-type: none"> 1. Next Generation PV Technologies 2. PV Supply Chain and Crosscutting Technologies 3. Advanced Heat Transfer Fluids and Novel Thermal Storage for Concentrating Solar Power <p>PA also seeks to enhance capabilities for testing and evaluating:</p> <ol style="list-style-type: none"> 4. Advanced Concentrating Solar Power Concepts 5. Advanced Photovoltaics Manufacturing Capability <p><u>Solar Market Transformation</u> Approx \$20 M to: (1) address current market barriers to the adoption of solar technologies; and (2) establish a nationally coordinated effort to spread solar installation training to the local level.</p>	<p><u>Solar Market Transformation</u> Parties eligible for the first topic area include select cities. Parties eligible for the second topic area include all domestic entities or institutions.</p>	<p>Announcement No. DE-FOA-0000087.</p> <p>For FOA, go to FedConnect, https://www.fedconnect.net/FedConnect/, then click "Search Public Opportunities" and find FOA in table.</p> <p>Application due date: July 15, 2009, 11:59 PM Eastern Time</p> <p><u>Solar Market Transformation</u> On May 28, 2009, the Golden Field Office issued FOA No. DE-FOA-0000078.</p> <p>For FOA, go to FedConnect, https://www.fedconnect.net/FedConnect/, then click "Search Public Opportunities" and find FOA in table.</p> <p>Application due date: July 30, 2009, 11:59 PM Eastern Time</p>	<p><u>Solar Market Transformation</u></p>

DEPARTMENT OF ENERGY

<http://www.energy.gov/recovery/>

PROVISION LOCATION	FUNDING	INDUSTRY/ SUBJECT MATTER	PROGRAM	PROGRAM OR FO DESCRIPTION	CRITERIA FOR FUNDING	IMPLEMENTATION/STATUS	NOTES
<p><u>Doc.:</u> N/A <u>Title:</u> N/A <u>Page:</u> N/A</p>	<p>< \$1.0 B (out of \$2.5 B, out of \$16.8 B)</p>	<ul style="list-style-type: none"> Wind 	<p>I.E.5. Wind-Related Projects/Programs</p>	<p><u>Large Wind Turbine Drivetrain Testing Facility</u> \$45 M to be awarded on a competitive basis for the design and construction of a large dynamometer facility capable of highly accelerated life testing of 5-15MW rated land based and off-shore wind turbine drivetrains, with supporting systems, and the operation and maintenance of these facilities for the benefit of wind stakeholders nationwide.</p> <p><u>Wind Energy Consortia between Institutions of Higher Learning and Industry</u> \$24 M for</p> <ol style="list-style-type: none"> Partnerships for Wind Research and Turbine Reliability: Universities in regions with consistent wind resources throughout the year are encouraged to team with industry partners to establish facilities/equipment and a research agenda necessary to study major challenges facing today's wind industry. Wind Energy Research & Development: University R&D to advance material design, performance measurements, analytical models, and leveraging partnerships with industry to improve power systems operations, maintenance or repair operations, wind turbine and/or component manufacturing, and interdisciplinary system integration. 	<p><u>Large Wind Turbine Drivetrain Testing Facility</u></p> <p><u>Wind Energy Consortia between Institutions of Higher Learning and Industry</u> Eligibility for award is restricted to consortia led by an institution of higher learning. The consortia must include at least one four-year institution of higher learning that has at least one engineering program that is accredited by the Accreditation Board for Engineering and Technology (ABET).</p>	<p><u>Large Wind Turbine Drivetrain Testing Facility</u> Notice of upcoming FOA, reference number TBD, has been issued.</p> <p>To see Notice, go to http://www.energy.gov/recovery/funding.htm under "Energy Efficiency and Renewable Energy Announcements."</p> <p>DOE plans to release the FOA in June 2009.</p> <p><u>Wind Energy Consortia between Institutions of Higher Learning and Industry</u> On May 29, 2009, FOA No. DE-FOA-0000090 issued.</p> <p>Application due date: July 29, 2009, 11:59 PM Eastern Time.</p> <p>For FOA, go to FedConnect, https://www.fedconnect.net/FedConnect/, then click "Search Public Opportunities" and find FOA in table.</p>	<p><u>Large Wind Turbine Drivetrain Testing Facility</u></p> <p><u>Wind Energy Consortia between Institutions of Higher Learning and Industry</u></p>

DEPARTMENT OF ENERGY

<http://www.energy.gov/recovery/>

PROVISION LOCATION	FUNDING	INDUSTRY/ SUBJECT MATTER	PROGRAM	PROGRAM OR FO DESCRIPTION	CRITERIA FOR FUNDING	IMPLEMENTATION/STATUS	NOTES
<p><u>Doc.:</u> JES</p> <p><u>Title:</u> IV</p> <p><u>Page:</u> 24</p> <p><u>Heading:</u> Energy Programs— Energy Efficiency and Renewable Energy</p>	<p>\$300 M (out of \$16.8 B)</p>	<ul style="list-style-type: none"> Public Funds Automotive Fuel Economy Infrastructure 	<p>I.F. <i>Alternative Fueled Vehicles Pilot Grant Program</i></p>	<p><u>Clean Cities FY09 Petroleum Reduction Technologies Projects for the Transportation Sector</u></p> <p>Grant recipients must use the funds to acquire motor vehicles with higher fuel economy, including:</p> <ul style="list-style-type: none"> Hybrid vehicles; Electric vehicles; and Commercially available plug-in hybrid vehicles. <p>Grant recipient will also use funds to acquire infrastructure to support such vehicles.</p> <p>Funds administered by DOE's Clean Cities Program.</p> <p>Grant Areas of Interest:</p> <ul style="list-style-type: none"> Refueling infrastructure for alternative fuels on cost-shared projects; Incremental costs of dedicated alternative-fueled vehicles purchased from original equipment manufacturers; Education, outreach, and workshops for petroleum reduction fuels and technologies to raise awareness and foster a greater understanding of alternative fuels and advanced vehicle technologies; and Cost-shared projects that expand use of alternative fuel and advanced vehicle technologies including the installation or acquisition of infrastructure necessary to directly support these vehicles. 	<p><u>Clean Cities FY09 Petroleum Reduction Technologies Projects</u></p> <p>Fund allocated to grantees on a competitive basis.</p> <p>The applicant must be:</p> <ul style="list-style-type: none"> The head of a state or local govt or a metropolitan transportation authority or a combination of these; <u>and</u> A registered participant in the Clean Cities Coalition. <p>The following is a list of Clean Cities Coalitions: http://www.afdc.energy.gov/cleancities/progs/coalition_locations.php#alpha</p>	<p><u>Clean Cities FY09 Petroleum Reduction Technologies Projects</u></p> <ul style="list-style-type: none"> FOA No. DE-PS26-09NT01236-04. This FOA was last amended as of March 18, 2009. See: http://www.energy.gov/recovery/funding.htm under "Energy Efficiency and Renewable Energy Announcements." Application deadlines are March 31, 2009, and May 29, 2009, depending on applicant's areas of interest. 	<p><u>Clean Cities FY09 Petroleum Reduction Technologies Projects</u></p> <ul style="list-style-type: none"> Funds available until September 30, 2011. Proposals that are ready for immediate initiation will receive higher priority in the evaluation process. Program authorized by EPCA 05 Section 721 (42 U.S.C. 16071).

DEPARTMENT OF ENERGY

<http://www.energy.gov/recovery/>

PROVISION LOCATION	FUNDING	INDUSTRY/ SUBJECT MATTER	PROGRAM	PROGRAM OR FO DESCRIPTION	CRITERIA FOR FUNDING	IMPLEMENTATION/STATUS	NOTES
<p><u>Doc.:</u> JES</p> <p><u>Title:</u> IV</p> <p><u>Page:</u> 24</p> <p><u>Heading:</u> Energy Programs— Energy Efficiency and Renewable Energy</p>	<p>\$400 M (out of \$16.8 B)</p>	<ul style="list-style-type: none"> • Automotive • Education • Technology • Alternative Fuel • Infrastructure Development 	<p>I.G. Transportation Electrification</p>	<p>Funding to establish widespread demonstration, development, evaluation, and education projects to speed up the market introduction and penetration of advanced electric drive vehicles.</p> <p>Areas of Interest:</p> <ol style="list-style-type: none"> 1. Electric Drive Vehicle Demonstration and Evaluation 2. Transportation Sector Electrification 3. Combined Proposals for Areas of Interest 1 and 2 4. Advanced Electric Drive Vehicle Education Program 	<ul style="list-style-type: none"> • All types of entities are eligible to apply (subject to certain exceptions for government entities and contractors and nonprofits). See FOA pages 19–20 for eligibility information. • Cost sharing is required. • Approximately \$378 M is expected to be available for all Areas of Interest for new awards under this FOA. For more award information, see FOA pages 17, 18. 	<p>On March 19, 2009, NETL issued FOA No. DE-FOA-0000028. See: http://www.netl.doe.gov/business/solicitations/index.html for a link to the FOA and the application. Amendment 002 to FOA was posted on April 16, 2009.</p> <p>Application due date: May 13, 2009, 8:00 PM Eastern Time.</p> <p>DOE is contemplating a Round 2 for the same Areas of Interest, contingent upon the outcome of Round 1 and the availability of appropriated funds. If Round 2 is issued, it will be under a separate FOA number.</p> <p>The estimated period of performance for each award is 2 to 3 years.</p>	<p>Emerging electric vehicle technologies include:</p> <ul style="list-style-type: none"> • Plug-in Hybrid Electric Vehicles; • Electric Vehicles; • Fuel Cell Vehicles; • Electric Idle Reduction Technologies; • Electric Rail; and • The recharging and support infrastructure required for each technology. <p>The classes of vehicles covered for funding can range from small off-road vehicles, passenger vehicles, and over-the-road trucks to rail and marine vessels.</p>
<p><u>Doc.:</u> JES</p> <p><u>Title:</u> IV</p> <p><u>Page:</u> 24</p> <p><u>Heading:</u> Energy Programs— Energy Efficiency and Renewable Energy</p>	<p>\$300 M (out of \$16.8 B)</p>		<p><i>I.H. Energy Efficient Appliance Rebate Program and Energy Star</i></p>	<p><u>Appliance Rebate Program</u> Consumer rebates to buy “Energy Star”-rated appliances to replace old appliances.</p> <p><u>Market Survey</u> NETL is going to conduct a survey to identify small businesses, small disadvantaged businesses, and 8(a) certified businesses capable of conducting the Energy Star program and management activities associated with planning, implementing, and continual assessment of operation.</p>		<p><u>Appliance Rebate Program</u> EERE responsible for implementation.</p> <p><u>Market Survey</u> On March 2, 2009, NETL issued notice that it is conducting the Market Survey.</p>	<p><u>Market Survey</u></p> <ul style="list-style-type: none"> • This is not a solicitation announcement for proposals, and no contract will be awarded from this announcement. • No reimbursement will be made for any costs associated with providing information in response to this announcement or any follow-up information requests.

DEPARTMENT OF ENERGY

<http://www.energy.gov/recovery/>

PROVISION LOCATION	FUNDING	INDUSTRY/ SUBJECT MATTER	PROGRAM	PROGRAM OR FO DESCRIPTION	CRITERIA FOR FUNDING	IMPLEMENTATION/STATUS	NOTES
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> IV</p> <p><u>Page:</u> HR 1-24 to HR 1-25</p> <p><u>Heading:</u> Energy Programs— Electricity Delivery and Energy Reliability</p>	<p>\$4.5 B</p>	<ul style="list-style-type: none"> • Transmission • Smart Grid • Technology • Research 	<p>II. Electricity Delivery and Energy Reliability</p>	<p>General use of funds to OEDER to do the following:</p> <ul style="list-style-type: none"> • Modernize electric grid; • Include demand-responsive equipment; • Enhance security and reliability of energy infrastructure; • Enhance energy storage research, development, demonstration, and deployment; • Facilitate recovery from disruptions to energy supply; and • Implement Smart Grid programs. 	<p>N/A</p>	<p><u>Research and Development</u> Although funding does not come from the ARRA, see March 27, 2009, FOA No. DE-FOA-0000035 for Advanced Synchro-Phasor Research. This FOA is related to grid modernization/enhancement programs.</p> <p>See FOA at: http://www.netl.doe.gov/business/solicitations/index.html</p>	
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> IV</p> <p><u>Page:</u> HR 1-24</p> <p><u>Heading:</u> Energy Programs— Electricity Delivery and Energy Reliability</p> <p>See also: HR 1-29, Sec. 405, Amendments to Title XIII of the Energy Independence and Security Act of 2007</p>	<p>\$4.0 B</p>	<ul style="list-style-type: none"> • Transmission • Smart Grid • Technology 	<p>II.A. Smart Grid Programs</p>	<p><u>Smart Grid Investment Matching Grant Program</u> \$3.375 billion in federal matching funds available for up to 50% of the cost of qualifying advanced grid technology investments.</p> <p>DOE announced on May 18, 2009, that it has raised the award ceiling for projects under this program from \$20 million to \$200 million.</p> <p><u>Smart Grid Demonstrations</u> \$615 million in federal funding for investor and publicly-owned utility regional Smart Grid demonstration projects, synchrophasor demonstrations, and utility-scale energy storage demonstrations.</p> <p>DOE announced on May 18, 2009, that it has raised the</p>		<p><u>Investment Matching Grant Program</u> On April 16, 2009, DOE issued an NOI for FOA No. DE-FOA-0000058A announcing \$3.375 billion in funding for Smart Grid technology deployment and phasor measurement unit technology deployment. To view the NOI, see: http://www.energy.gov/recovery/funding.htm</p> <p>There was a public comment period on the NOI, with comments due May 6, 2009. DOE plans to issue the FOA on or around June 17, 2009.</p> <p><u>Demonstrations</u> On April 16, 2009, DOE issued draft FOA No. DE-FOA-0000036 announcing \$615 million for demonstration projects. To view the draft FOA, see either : http://www.energy.gov/recovery/funding.htm or http://www.netl.doe.gov/business/solicitations/index.html There was a public comment</p>	<p><u>Investment Matching Grant Program</u></p> <ul style="list-style-type: none"> • See EISA Section 1306, as amended by the ARRA. • Smart Grid Programs authorized under EISA, Title XIII (42 U.S.C. 17381 et seq.). <p><u>Demonstrations</u></p> <ul style="list-style-type: none"> • See EISA Section 1304, as amended by the ARRA.

DEPARTMENT OF ENERGY

<http://www.energy.gov/recovery/>

PROVISION LOCATION	FUNDING	INDUSTRY/ SUBJECT MATTER	PROGRAM	PROGRAM OR FO DESCRIPTION	CRITERIA FOR FUNDING	IMPLEMENTATION/STATUS	NOTES
				<p>award ceiling for projects under this program from \$40 million to \$100 million.</p> <p><u>Smart Grid Information Clearinghouse (\$1.25 M)</u> Funds to establish and maintain a Smart Grid information clearinghouse that will make available to the public data from Smart Grid demonstration projects and other sources.</p>		<p>period on the draft FOA, with comments due May 6, 2009. DOE plans to issue the final FOA sometime thereafter.</p> <p><u>Smart Grid Information Clearinghouse</u> On March 6, 2009, NETL issued FOA No. DE-FOA-0000020 entitled "Smart Grid Information Clearinghouse." On March 20, 2009, NETL posted Amendment 001, which replaces the FOA posted on March 6, 2009, and contains multiple changes. Applicants should follow the instructions outlined in Amendment 001. Application due date: April 6, 2009.</p>	<p><u>Smart Grid Information Clearinghouse</u> Will be a venue for many federal and state agencies and public and private sector orgs to assess Smart Grid development and practices.</p> <ul style="list-style-type: none"> • See EISA Section 1304.
<p><u>Doc.:</u> ARRA <u>Title:</u> IV <u>Page:</u> HR 1-25 <u>Heading:</u> Energy Programs—Electricity Delivery and Energy Reliability</p>	<p>\$10 M (out of \$4.5 B)</p>	<ul style="list-style-type: none"> • Standards Development 	<p>II.A.1. Smart Grid Interoperability Framework</p>	<p>Funds for the National Institute of Standards and Technology ("NIST") to coordinate development of a framework that includes protocols and model standards for information management to achieve interoperability of Smart Grid devices and systems. The protocols and standards should align policy, business, and technology approaches in a manner that would enable all electric resources, including demand-side resources, to contribute to an efficient, reliable electricity network.</p>	<p>N/A</p>	<p>On May 18, 2009, the first 16 NIST-recognized draft interoperability standards was announced. For a list of the first 16 standards, see http://www.nist.gov/smartgrid/standards.html</p> <p>On April 13, 2009, NIST announced a three-phase plan to expedite development of key standards for a Smart Grid, with plans to submit standards for review and approval by FERC by the end of 2009. NIST's three-phase approach will:</p> <ul style="list-style-type: none"> • Further engage stakeholders to achieve consensus on Smart Grid standards. By early fall, the process will deliver: <ul style="list-style-type: none"> ○ Smart Grid architecture; ○ Priorities for interoperability and cyber- 	<ul style="list-style-type: none"> • See EISA Section 1305.

DEPARTMENT OF ENERGY

<http://www.energy.gov/recovery/>

PROVISION LOCATION	FUNDING	INDUSTRY/ SUBJECT MATTER	PROGRAM	PROGRAM OR FO DESCRIPTION	CRITERIA FOR FUNDING	IMPLEMENTATION/STATUS	NOTES
						<ul style="list-style-type: none"> o security standards; o An initial set of standards to support implementation; and o Plans to meet remaining standards needs. • Launch a formal partnership to facilitate development of additional standards to address remaining gaps and integrate new technologies. • Develop a plan for testing and certification to ensure that Smart Grid equipment and systems conform to standards for security and interoperability. 	
<p><u>Doc.:</u> ARRA <u>Title:</u> IV <u>Page:</u> HR 1-24 <u>Heading:</u> Energy Programs— Electricity Delivery and Energy Reliability</p>	<p>\$100 M (out of \$4.5 B)</p>	<ul style="list-style-type: none"> • Education 	<p>II.B. Worker Training Activities</p>	<p>N/S</p>	<p>N/S</p>		
<p><u>Doc.:</u> ARRA <u>Title:</u> IV <u>Page:</u> HR 1-24 <u>Heading:</u> Energy Programs— Electricity Delivery and Energy Reliability</p>	<p>\$80 M (out of \$4.5 B)</p>	<ul style="list-style-type: none"> • Government Study 	<p>II.C. Transmission Study</p>	<p>OEDER will conduct a resource assessment and analysis of future demand and transmission requirements after consultation with FERC.</p>	<p>N/A</p>		

DEPARTMENT OF ENERGY

<http://www.energy.gov/recovery/>

PROVISION LOCATION	FUNDING	INDUSTRY/ SUBJECT MATTER	PROGRAM	PROGRAM OR FO DESCRIPTION	CRITERIA FOR FUNDING	IMPLEMENTATION/STATUS	NOTES
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> IV</p> <p><u>Page:</u> HR 1-25</p> <p><u>Heading:</u> Energy Programs—Electricity Delivery and Energy Reliability</p>	N/S (out of \$4.5 B)	<ul style="list-style-type: none"> Government Planning 	II.D. Regional Interconnection-Based Transmission Plans	OEDER, in coordination with FERC, will provide technical assistance to NERC, regional entities, and other transmission owners and operators for the formation of interconnection-based transmission plans for the Eastern and Western Interconnections and ERCOT.	N/A		<ul style="list-style-type: none"> Assistance to NERC et al. may include modeling and support to regions and states for development of coordinated state electricity policies, programs, laws, and regulations.
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> IV</p> <p><u>Page:</u> HR 1-32</p> <p><u>Heading:</u> General Provisions, Sec. 409, Renewable Electricity Transmission Study</p>	N/S	<ul style="list-style-type: none"> Government Study 	II.E. 2009 National Electric Transmission Study	The ARRA modifies and expands the scope of the 2009 National Electric Transmission Study. This biennial study is the foundation for the designation of additional National Interest Electric Transmission Corridors ("NIETCs").	N/A		<ul style="list-style-type: none"> The designation of NIETCs is the predicate for FERC backstop siting jurisdiction. This biennial study of electric grid congestion provided for under EAct 05.
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> IV</p> <p><u>Page:</u> HR 1-26</p> <p><u>Heading:</u> Environmental and Other Defense Activities—Construction, Rehabilitation, Operation, and Maintenance, Western Area Power Administration</p>	\$10 M	<ul style="list-style-type: none"> Transmission Construction Operation and Maintenance 	III. WAPA—Funds for Former Bureau of Reclamation Activities	<p>Under the ARRA, WAPA is given funding to carry out transmission construction, operation and maintenance, and other related activities, including conservation and renewable resources programs.</p> <p>Generally, WAPA is charged with marketing and delivering hydroelectric power from federal dams in 11 states. It constructs and operates transmission that is available to utilities transmitting nonfederal power after WAPA has reserved enough capacity to deliver federal hydropower to its long-term, firm customers.</p>			<ul style="list-style-type: none"> Functions authorized by the Department of Energy Organization Act, August 4, 1977, Title III, Section 302(a)(1)(E)(42 U.S.C. 7152). WAPA carries out functions that, until 1977, were the province of the Bureau of Reclamation. In 1977, Congress transferred to DOE "the power marketing functions of the Bureau of Reclamation, including construction, operation, and maintenance of transmission lines and attendant facilities," and created WAPA as a DOE subagency. Appropriation is nonreimbursable.

DEPARTMENT OF ENERGY

<http://www.energy.gov/recovery/>

PROVISION LOCATION	FUNDING	INDUSTRY/ SUBJECT MATTER	PROGRAM	PROGRAM OR FO DESCRIPTION	CRITERIA FOR FUNDING	IMPLEMENTATION/STATUS	NOTES
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> IV</p> <p><u>Page:</u> HR 1-27</p> <p><u>Heading:</u> General Provisions, Section 402, Western Area Power Administration Borrowing Authority</p>	\$3.25 B	<ul style="list-style-type: none"> Transmission Infrastructure 	IV. WAPA—Increased Borrowing Authority for Transmission Projects	<p>The ARRA grants WAPA \$3.25 B additional borrowing authority to construct transmission infrastructure to deliver renewable energy to market across the West.</p> <p>WAPA may use the funds to pay for its share of projects jointly developed with other entities.</p>	<ul style="list-style-type: none"> Transmission must include one interconnection to areas currently served by WAPA, which is authorized to operate in 15 western states. 	<p>On May 14, 2009, WAPA's Transmission Infrastructure Program ("TIP") was published in the Federal Register. To review the TIP, i.e., WAPA's policies and practices for exercising its new borrowing authority, see: http://www.wapa.gov/recovery/default.htm</p> <p>On March 4, 2009, WAPA announced in the Federal Register the availability of a Request for Interest ("RFI") seeking interest in potential projects to be funded under TIP. All Statements of Interest were requested to be submitted in a on-confidential manner by April 3, 2009. To see the RFI, go to: http://www.wapa.gov/recovery/default.htm</p>	<ul style="list-style-type: none"> WAPA has previously entered into joint development projects with investor-owned entities.
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> IV</p> <p><u>Page:</u> HR 1-26</p> <p><u>Heading:</u> General Provisions, Section 401, Bonneville Power Administration Borrowing Authority</p>	\$3.25 B	<ul style="list-style-type: none"> Transmission Infrastructure 	V. <i>BPA—Increased Borrowing Authority</i>	Additional funds available to assist BPA in financing the construction, acquisition, and replacement of the transmission system, and to implement other authority granted to BPA.		<p>On February 19, 2009, BPA announced the decision to build a major new transmission project, the McNary-John Day 500-kilovolt transmission line. The plans were energized by the additional \$3.25 B in borrowing authority for BPA from the U.S. Treasury for capital projects.</p>	<ul style="list-style-type: none"> Administrator of BPA has discretion to use additional borrowing authority for nontransmission purposes. When energized in late 2012, the McNary-John Day line will allow BPA to provide transmission service to more than 870 megawatts of energy, including service for more than 700 megawatts of new wind energy.
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> IV</p> <p><u>Page:</u> HR 1-25</p> <p><u>Heading:</u> Energy Programs—Fossil</p>	\$3.4 B		VI. Fossil Energy Research and Development	<p>A. Fossil Energy Research and Development Programs</p> <p>B. Clean Coal Power Initiative Round III Funding Opportunity Announcement</p>	N/A	N/A	<ul style="list-style-type: none"> \$3.4 B is the blanket amount Congress appropriated for programs funded under the heading "Fossil Energy Research and Development."

DEPARTMENT OF ENERGY

<http://www.energy.gov/recovery/>

PROVISION LOCATION	FUNDING	INDUSTRY/ SUBJECT MATTER	PROGRAM	PROGRAM OR FO DESCRIPTION	CRITERIA FOR FUNDING	IMPLEMENTATION/STATUS	NOTES
Energy Research and Development				C. Industrial Carbon Capture and Energy Efficiency Improvement Projects D. Site Characterization Activities in Geologic Formations E. Geologic Sequestration Training and Research Grants F. Program Direction Funding			
<p><u>Doc.:</u> JES</p> <p><u>Title:</u> IV</p> <p><u>Page:</u> 25</p> <p><u>Heading:</u> Energy Programs—Fossil Energy Research and Development</p>	\$1.0 B (out of \$3.4 B)		VI.A. Fossil Energy Research and Development Programs	N/S	N/S		
<p><u>Doc.:</u> JES</p> <p><u>Title:</u> IV</p> <p><u>Page:</u> 25</p> <p><u>Heading:</u> Energy Programs—Fossil Energy Research and Development</p>	\$800 M (out of \$3.4 B)	<ul style="list-style-type: none"> • Carbon Capture • Technology • Emissions 	VI.B. Clean Coal Power Initiative Round III Funding Opportunity Announcement	<p><u>Clean Coal Power Initiative - Round 3 CCS from Coal-Fired Power Plants</u> Funding to advance coal-based systems and subsystems that capture and sequester, or put to beneficial reuse, carbon dioxide emissions.</p> <p>Funding is also open to any coal-based, advanced carbon capture technologies that result in co-benefits with respect to efficiency, environmental, or economic improvements potentially capable of achieving CCPI coal technology performance levels specified in EPAAct 05, Title IV, Subtitle A, Section 402.</p>	<p><u>Clean Coal Power Initiative - Round 3 CCS from Coal-Fired Power Plants</u> Eligibility: Advanced coal-based projects that have progressed beyond the research and development stage to a point of readiness for operation at a scale that, once demonstrated, can be readily replicated and deployed into commercial practice within the electric power industry.</p>	<p><u>Clean Coal Power Initiative - Round 3 CCS from Coal-Fired Power Plants</u> On May 19, 2009, NETL issued NOI re Amendment 005 to FOA No. DE-PS26-08NT43181, to be issued as FOA No. DE-FOA-0000042, stating that there are plans to issue Amendment 005 in May 2009.</p> <p>Purpose of the Amendment: to re-open the FOA and provide a second application due date in order to make certain programmatic and administrative changes. As of June 1, FOA has not been issued.</p> <p>To view NOI, go to http://www.energy.gov/recovery/funding.htm under "Fossil Energy."</p>	

DEPARTMENT OF ENERGY

<http://www.energy.gov/recovery/>

PROVISION LOCATION	FUNDING	INDUSTRY/ SUBJECT MATTER	PROGRAM	PROGRAM OR FO DESCRIPTION	CRITERIA FOR FUNDING	IMPLEMENTATION/STATUS	NOTES
<p><u>Doc.:</u> JES</p> <p><u>Title:</u> IV</p> <p><u>Page:</u> 25</p> <p><u>Heading:</u> Energy Programs—Fossil Energy Research and Development</p>	<p>\$1.52 B (out of \$3.4 B)</p>	<ul style="list-style-type: none"> Carbon Capture Technology 	<p>VI.C. Industrial Carbon Capture and Energy Efficiency Improvement Projects</p>	<p><u>CCS from Industrial Sources and Innovative Concepts for Beneficial CO₂ Reuse</u> Money appropriated for a competitive solicitation to fund:</p> <ul style="list-style-type: none"> Large-scale industrial CCS projects from industrial sources; and Innovative concepts for beneficial CO₂ reuse. 	<p><u>CCS from Industrial Sources and Innovative Concepts for Beneficial CO₂ Reuse</u></p>	<p><u>CCS from Industrial Sources and Innovative Concepts for Beneficial CO₂ Reuse</u> On May 22, 2009, NETL issued an NOI re FOA No. DE-FOA-0000015. The NOI states that there are plans to issue the FOA in May 2009.</p> <p>As of June 1, FOA has not been issued.</p> <p>To view NOI, go to http://www.energy.gov/recovery/funding.htm under "Fossil Energy."</p>	
<p><u>Doc.:</u> JES</p> <p><u>Title:</u> IV</p> <p><u>Page:</u> 25–26</p> <p><u>Heading:</u> Energy Programs—Fossil Energy Research and Development</p>	<p>\$50 M (out of \$3.4 B)</p>	<ul style="list-style-type: none"> Geologic Research 	<p>VI.D. Site Characterization Activities in Geologic Formations CO₂ Storage</p>	<p><u>Site Characterization of Promising Geologic Formations for CO₂ Storage</u> Funding to:</p> <ul style="list-style-type: none"> Support comprehensive data sets of formation characteristics (porosity, permeability, injectivity, reservoir architecture, cap rock integrity, etc.); Determine usefulness of potential geologic storage sites; Augment existing data sets and refine best practices for approving storage site selection; and Characterize a minimum of 10 "high-potential" geologic formations. <p>Geologic formations to be evaluated can include saline formations, depleting/depleted oil fields, or coal seams.</p>	<p><u>Site Characterization of Promising Geologic Formations for CO₂ Storage</u> Eligibility: All types of entities except for other federal agencies, federally funded research and development center contractors, and nonprofit organizations described in Section 501(c)(4) of the Internal Revenue Code of 1986 that engaged in lobbying activities after December 31, 1995. A national laboratory is not eligible for an award under this announcement but may be proposed as a team member subject to certain conditions.</p>	<p><u>Site Characterization of Promising Geologic Formations for CO₂ Storage</u> On May 19, 2009, NETL issued an NOI re FOA No. DE-FOA-0000033. The NOI states that there are plans issue the FOA in May 2009.</p> <p>As of June 1, FOA has not been issued.</p> <p>To view NOI, go to http://www.energy.gov/recovery/funding.htm under "Fossil Energy."</p>	<p><u>Site Characterization of Promising Geologic Formations for CO₂ Storage</u></p> <ul style="list-style-type: none"> DOE envisions awarding multiple financial assistance awards in the form of cost-shared cooperative agreements. Nonfederal cost share will be required for all recipients. Number of applications selected for negotiations leading to award is approx. 10 but may depend on quality of applications and availability of funds.

DEPARTMENT OF ENERGY

<http://www.energy.gov/recovery/>

PROVISION LOCATION	FUNDING	INDUSTRY/ SUBJECT MATTER	PROGRAM	PROGRAM OR FO DESCRIPTION	CRITERIA FOR FUNDING	IMPLEMENTATION/STATUS	NOTES
<p><u>Doc.:</u> JES</p> <p><u>Title:</u> IV</p> <p><u>Page:</u> 26</p> <p><u>Heading:</u> Energy Programs—Fossil Energy Research and Development :</p>	<p>\$20 M (out of \$3.4 B)</p>	<ul style="list-style-type: none"> • Education • Training • Research 	<p>VI.E. Geologic Sequestration Training and Research Grants</p>	<p><u>Geologic Sequestration Training and Research</u> Funds appropriated here will provide grants for university training and research.</p> <p>Objective: To provide training opportunities for students that will provide the human capital and skills required to implement and deploy CCS technologies.</p> <p>Fundamental research is needed to advance science in:</p> <ul style="list-style-type: none"> • Simulation and risk assessment; • Monitoring, verification, and accounting; • Geological-related analytical tools; • Methods to interpret geophysical models; • CO₂ capture; • Well completion and integrity; and • Water production/cleanup/ alternative use. <p><u>Regional Sequestration Technology Training</u> Grants to develop regional sequestration technology training to transfer knowledge relevant to different formation types and geologic basins throughout the country. The training will specialize in the applied engineering and science of CCS training for site developers, geologists, engineers, and technicians.</p>	<p><u>Geologic Sequestration Training and Research</u> Eligibility restricted to:</p> <ul style="list-style-type: none"> • Universities; and • Historically black colleges and universities and other minority institutions <p><u>Regional Sequestration Technology Training</u></p>	<p><u>Geologic Sequestration Training and Research</u> On May 20, 2009, NETL issued an NOI re FOA No. DE-FOA-0000032. The NOI states that there are plans issue the FOA in May 2009.</p> <p>As of June 1, FOA has not been issued.</p> <p>To view NOI, go to http://www.energy.gov/recovery/funding.htm under "Fossil Energy."</p> <p><u>Regional Sequestration Technology Training</u> On May 19, 2009, NETL issued an NOI re FOA No. DE-FOA-0000080. The NOI states that there are plans issue the FOA in May 2009.</p> <p>As of June 1, FOA has not been issued.</p> <p>To view NOI, go to http://www.energy.gov/recovery/funding.htm under "Fossil Energy."</p>	<ul style="list-style-type: none"> • 42 applications expected to be selected for negotiations leading to award but depends on application quality and fund availability. <p><u>Regional Sequestration Technology Training</u></p>

DEPARTMENT OF ENERGY

<http://www.energy.gov/recovery/>

PROVISION LOCATION	FUNDING	INDUSTRY/ SUBJECT MATTER	PROGRAM	PROGRAM OR FO DESCRIPTION	CRITERIA FOR FUNDING	IMPLEMENTATION/STATUS	NOTES
<p><u>Doc.:</u> JES</p> <p><u>Title:</u> IV</p> <p><u>Page:</u> 26</p> <p><u>Heading:</u> Energy Programs—Fossil Energy Research and Development</p>	<p>\$10 M (out of \$3.4 B)</p>		<p>VI.F. Program Direction Funding</p>				
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> IV</p> <p><u>Page:</u> HR 1-26</p> <p><u>Heading:</u> Energy Programs—Advanced Research Projects Agency – Energy</p>	<p>\$400 M</p>	<ul style="list-style-type: none"> Administrative 	<p>VII. Advanced Research Projects Agency—Energy (“ARPA-E”)</p>	<p>Funds to create a program that will help fund groups, including private companies, to carry out R&D projects related to novel energy technologies that reduce foreign energy imports, reduce greenhouse gas emissions, or increase efficiency.</p>		<p>As a new origination, ARPA-E is in the process of creating its first solicitation. Information on this and subsequent ARPA-E solicitations will be posted on FedBizOpps.</p>	<ul style="list-style-type: none"> Once established, program will support high-risk, high-payoff research into energy sources and energy efficiency in collaboration with private industry and universities. Authorized under America COMPETES Act, Section 5012 (42 U.S.C. 16538).
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> IV</p> <p><u>Page:</u> HR 1-26</p> <p><u>Heading:</u> Energy Programs—Title 17 – Innovative Technology Loan Guarantee Program</p> <p><u>See also:</u> HR 1-31, Sec. 406, Renewable Energy and Electric Power Transmission Loan Guarantee Program</p>	<p>\$6.0 B</p>	<ul style="list-style-type: none"> Advanced Technologies Renewable Energy Transmission Biofuels Research and Development 	<p>VIII. Innovative Technology Loan Guarantee Program</p>	<p>Program provides loans to projects that involve:</p> <ul style="list-style-type: none"> <u>Renewable Energy:</u> For systems that generate electricity or thermal energy or manufacture components for electric or thermal systems; <u>Electric Transmission:</u> For facilities that meet reliability needs and have positive effects on environmental and energy needs; or <u>Leading-Edge Biofuel Technologies</u> (e.g., biomass CHP). Loans for biofuel projects limited to \$500 M. 	<ul style="list-style-type: none"> To qualify for loan, project must begin construction by September 30, 2011. <p><u>Eligibility for Biofuel Projects:</u> Must be likely to become commercial technology and produce transportation fuels that reduce greenhouse gas emissions compared to other transportation fuels.</p>	<p>March 20, 2009: DOE offers \$535 M loan guarantee under the original loan guarantee program to Solyndra, Inc., to support the construction of a commercial-scale manufacturing plant for its proprietary solar photovoltaic panels. This is the first guarantee to be offered through the Loan Guarantee Program.</p> <ul style="list-style-type: none"> Program provides for a direct loan through the Federal Financing Bank or a government-backed loan guarantee if the developer chooses to use a private lender. <p>Link to DOE web site on loan program: http://www.lgprogram.energy.gov/features.html</p>	<ul style="list-style-type: none"> Appropriation will support more than \$60 B in loans for renewable energy systems, transmission technologies, and biofuel technologies. Loan term will be approximately 3% over 30 years for 80% of the project’s construction costs. Program authorized by EAct 05.

DEPARTMENT OF ENERGY

<http://www.energy.gov/recovery/>

PROVISION LOCATION	FUNDING	INDUSTRY/ SUBJECT MATTER	PROGRAM	PROGRAM OR FO DESCRIPTION	CRITERIA FOR FUNDING	IMPLEMENTATION/STATUS	NOTES
<p><u>Doc.:</u> JES</p> <p><u>Title:</u> IV</p> <p><u>Page:</u> 27</p> <p><u>Heading:</u> Energy Programs—Title 17 – Innovative Technology Loan Guarantee Program</p>	<p>\$10 M (out of \$6.0 B)</p>	<ul style="list-style-type: none"> Administrative 	<p>IX. Advanced Technology Vehicles Manufacturing Loan Program</p>	<p>Funds for administrative expenses to support the program.</p>		<p>N/A</p>	
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> IV</p> <p><u>Page:</u> HR 1-25</p> <p><u>Heading:</u> Energy Programs—Non-Defense Environmental Cleanup</p>	<p>\$483 M</p>	<ul style="list-style-type: none"> Environment Cleanup 	<p>X. Non-Defense Environmental Cleanup Activities</p>	<p>OEM is responsible for using funds.</p> <p>Projects will focus on accelerating cleanup of soil and groundwater, transportation and disposal of waste, and cleaning and demolishing former weapons complex facilities.</p>		<p>The following is a link to OEM's ARRA web site, where details regarding implementation will be provided: http://www.em.doe.gov/emrecovery/EMRecovery.aspx</p> <p>On March 31, 2009, DOE announced which states and DOE sites will receive this funding. To see allocations, go to: http://www.energy.gov/news2009/7192.htm</p>	
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> IV</p> <p><u>Page:</u> HR 1-26</p> <p><u>Heading:</u> Environmental and Other Defense Activities—Defense Environmental Cleanup</p>	<p>\$5.127 B</p>	<ul style="list-style-type: none"> Environment Cleanup 	<p>XI. Defense Environmental Cleanup Activities</p>	<p>OEM is responsible for using funds.</p> <p>Projects will focus on accelerating cleanup of soil and groundwater, transportation and disposal of waste, and cleaning and demolishing former weapons complex facilities.</p>		<p>The following is a link to OEM's ARRA web site, where details regarding implementation will be provided: http://www.em.doe.gov/emrecovery/EMRecovery.aspx</p> <p>On March 31, 2009, DOE announced which states and DOE sites will receive this funding. To see allocations, go to: http://www.energy.gov/news2009/7192.htm</p>	

DEPARTMENT OF ENERGY

<http://www.energy.gov/recovery/>

PROVISION LOCATION	FUNDING	INDUSTRY/ SUBJECT MATTER	PROGRAM	PROGRAM OR FO DESCRIPTION	CRITERIA FOR FUNDING	IMPLEMENTATION/STATUS	NOTES
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> IV</p> <p><u>Page:</u> HR 1-25</p> <p><u>Heading:</u> Energy Programs— Uranium Enrichment Decontamination and Decommissioning Fund</p>	<p>\$390 M</p>	<ul style="list-style-type: none"> • Environment Cleanup • Nuclear 	<p>XII. Uranium Enrichment Decontamination and Decommissioning Fund</p>	<p>OEM has been allocated funds to carry out env. management responsibilities at the U.S.'s three gaseous diffusion plants. Cleanup activities include assessing, treating, and disposing of the contamination found at the plants and the decontamination and decommissioning of inactive facilities.</p> <p>Of these funds, \$70 M is allocated to reimburse licensees operating uranium or thorium processing sites for the costs of environmental cleanup at those sites.</p>		<p>The following is a link to OEM's ARRA web site, where details regarding implementation will be provided: http://www.em.doe.gov/emrecovery/EMRecovery.aspx</p> <p>On March 31, 2009, DOE announced which states and DOE sites will receive this funding. To see allocations, go to: http://www.energy.gov/news2009/7192.htm</p>	<ul style="list-style-type: none"> • Fund established by Energy Policy Act of 1992.
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> IV</p> <p><u>Page:</u> HR 1-25</p> <p><u>Heading:</u> Energy Programs— Science</p>	<p>\$1.6 B</p>	<ul style="list-style-type: none"> • Research • Construction • Infrastructure 	<p>XIII. <i>Science</i></p>	<p>Funds for research programs in high-energy physics, nuclear physics, and fusion energy sciences.</p>		<p>To view the Office of Science FOs that have been issued, see: http://www.energy.gov/recovery/funding.htm and go to "Science Announcements"</p> <p>Link to the DOE Office of Science Grants and Contracts web site: http://www.sc.doe.gov/grants/grants.html</p>	

ENVIRONMENTAL PROTECTION AGENCY

<http://www.epa.gov/recovery/>

PROVISION LOCATION	FUNDING	INDUSTRY/ SUBJECT MATTER	PROGRAM NAME	PROGRAM OR FO DESCRIPTION	CRITERIA FOR FUNDING	IMPLEMENTATION/STATUS	NOTES
<p><u>Doc.:</u> ARRA <u>Title:</u> VII <u>Page:</u> HR 1-54 <u>Heading:</u> Hazardous Substance Superfund</p>	\$600 M		<p>I. <i>Hazardous Substance Superfund Program</i></p>	<p>Additional amounts for the Superfund Remedial Program for cleanup of uncontrolled or abandoned hazardous-waste sites and to respond to accidents, spills, and other emergency releases of pollutants and contaminants.</p> <p>EPA plans to use the funds to:</p> <ul style="list-style-type: none"> • Start long-term cleanup projects; and • Accelerate ongoing construction projects at sites listed on the National Priorities List. 		<p>On April 15, 2009, EPA announced the list of sites receiving funding. To see the list, go to: http://www.epa.gov/superfund/eparecovery/sites.html</p> <p>EPA determined which projects to fund by considering a variety of factors, including such factors as:</p> <ul style="list-style-type: none"> • Human and ecological risk; • Jobs created or maintained; and • Construction readiness. <p>For implementation information generally, see: http://www.epa.gov/superfund/eparecovery/index.html</p>	<ul style="list-style-type: none"> • Program authorized by CERCLA.
<p><u>Doc.:</u> ARRA <u>Title:</u> VII <u>Page:</u> HR 1-55 <u>Heading:</u> Leaking Underground Storage Tank Trust Fund Program</p>	\$200 M		<p>II. <i>Leaking Underground Storage Tank Trust Fund Program</i></p>	<p>Money can be used only to:</p> <ul style="list-style-type: none"> • Oversee cleaning up underground tank leaks; or • Directly pay for cleaning up leaks from federally regulated tanks where the responsible party is unknown, unwilling, or unable or the cleanup is an emergency response. 	<p>Because the national underground storage tank program is primarily implemented by states and territories, the vast majority of money EPA receives will go to state and territorial underground tank programs through grant agreements.</p>	<p>On April 8, 2009, EPA announced the allocations to states and territories receiving funding. To see allocations, go to: http://www.epa.gov/swrust1/eparecovery/statealloc.htm</p> <p>EPA regional underground storage tank programs will enter into cooperative agreements with states and territories in spring 2009. These cooperative agreements will include more detailed descriptions of states' and territories' spending plans.</p> <p>For implementation information generally, see: http://www.epa.gov/swrust1/eparecovery/index.htm</p>	<ul style="list-style-type: none"> • Funds allocated under the ARRA are for cleanup activities authorized by Section 9003(h) of the Solid Waste Disposal Act ("SWDA"). • Funds not subject to cost share requirements under Section 9003(h)(7)(B) of SWDA.

ENVIRONMENTAL PROTECTION AGENCY

<http://www.epa.gov/recovery/>

PROVISION LOCATION	FUNDING	INDUSTRY/ SUBJECT MATTER	PROGRAM NAME	PROGRAM OR FO DESCRIPTION	CRITERIA FOR FUNDING	IMPLEMENTATION/STATUS	NOTES
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> VII</p> <p><u>Page:</u> HR 1-56</p> <p><u>Heading:</u> State and Tribal Assistance Grants</p>	\$100 M		III. Brownfield Program	<p>Funds appropriated for grants and loans to state and local governments for cleanup, revitalization, and sustainable reuse of contaminated properties.</p> <p>Funds will be awarded to eligible entities through:</p> <ol style="list-style-type: none"> 1. Job training; 2. Assessment; and 3. Revolving loan fund and cleanup grants. <p><u>Job Training</u> \$5 M to provide envt'l job-training projects that will promote job creation and economic development by facilitating the assessment, remediation, or preparation of brownfields sites.</p>	<p><u>Job Training</u> Eligible applicants: Certain governmental entities and nonprofit organizations.</p>	<p>On May 8, 2009, EPA announced over \$100 M in brownfield grants for communities, including \$37.3 million from the ARRA, and \$74.6 million from the EPA brownfields general program funding.</p> <p>For additional implementation information on ARRA funds for brownfields, see: http://www.epa.gov/brownfields/eparecovery/index.htm</p> <p><u>Job Training</u> RFA issued on March 19, 2009. See RFA No. EPA-ARRA-OSWER-OBLR-JT: http://www.epa.gov/brownfields/grant_guidelines/final_arra_jt_guidelines.pdf</p>	<ul style="list-style-type: none"> • Authorized by CERCLA Section 104(k).
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> VII</p> <p><u>Page:</u> HR 1-56</p> <p><u>Heading:</u> State and Tribal Assistance Grants</p>	\$300 M		IV. <i>Diesel Emission Reduction Act ("DERA") Program</i>	<p>DERA enables EPA to offer funding assistance to eligible organizations and entities on a competitive basis.</p> <p>Funding for clean diesel/diesel reduction is divided into four programs:</p> <ol style="list-style-type: none"> 1. <u>National Clean Diesel Funding Assistance Program</u>—\$156 M Funding will be awarded on a competitive basis to support diesel emission reduction programs. 	<p>Eligible entities, generally:</p> <ul style="list-style-type: none"> • A regional, state, local, or tribal agency or port authority with jurisdiction over transportation or air quality; • A nonprofit that provides pollution reduction or educational services to diesel fleet owners or operators or principally promotes transportation or air quality. <ol style="list-style-type: none"> 1. <u>National Clean Diesel Funding Assistance Program</u> For eligibility and other program info, see: http://epa.gov/otaq/eparecovery/prognational.htm 	<p>For implementation information, see: http://epa.gov/otaq/eparecovery/</p> <ol style="list-style-type: none"> 1. <u>National Clean Diesel Funding Assistance Program</u> RFA issued. RFA No. EPA-ARRA-OAR-OTAQ-09-06. See: http://epa.gov/otaq/eparecovery/documents/recovery-act-national-clean-diesel-rfa.pdf Application due date: Tuesday, April 28, 2009. 	<ul style="list-style-type: none"> • Grants authorized pursuant to EPAct 05, Title VII, subtitle G (Sections 791 to 797).

ENVIRONMENTAL PROTECTION AGENCY

<http://www.epa.gov/recovery/>

PROVISION LOCATION	FUNDING	INDUSTRY/ SUBJECT MATTER	PROGRAM NAME	PROGRAM OR FO DESCRIPTION	CRITERIA FOR FUNDING	IMPLEMENTATION/STATUS	NOTES
				<p>2. <u>National Clean Diesel Emerging Technology Program</u>—\$20 M This funding will support the use, development, and commercialization of emerging technologies that reduce emissions from diesel engines.</p> <p>3. <u>SmartWay Clean Diesel Finance Program</u>—\$30 M This funding will support the creation of national, state, or local innovative clean diesel financing programs.</p> <p>4. <u>State Clean Diesel Grant Program</u>—\$88 M This funding will be available to support clean diesel grant and loan programs administered by states and the District of Columbia.</p>	<p>2. <u>National Clean Diesel Emerging Technology Program</u> For eligibility and other program info, see: http://epa.gov/otaq/eparecovery/progmerge.htm</p> <p>3. <u>SmartWay Clean Diesel Finance Program</u> For eligibility info and other program, see: http://epa.gov/otaq/eparecovery/progfinance.htm</p> <p>4. <u>State Clean Diesel Grant Program</u> Unlike Programs 1–3, this program is not a competition, but an allocation process in which states submit their interest to participate to EPA. All states with an approvable work plan and grant application will receive funding.</p>	<p>2. <u>National Clean Diesel Emerging Technology Program</u> RFA issued. RFA No. EPA-ARRA-OAR-OTAQ-09-05. See: http://epa.gov/otaq/eparecovery/documents/recovery-act-emerging-technology-rfa.pdf Application due date: Tuesday, May 5, 2009.</p> <p>3. <u>SmartWay Clean Diesel Finance Program</u> RFA issued. RFA No. EPA-ARRA-OAR-OTAQ-09-04. See: http://epa.gov/otaq/eparecovery/documents/recovery-act-smartway-finance-clean-diesel-rfa.pdf Application due date: Tuesday, April 28, 2009.</p> <p>4. <u>State Clean Diesel Grant Program</u> For more info, see: http://epa.gov/otaq/eparecovery/progstate.htm</p>	

DEPARTMENT OF DEFENSE

<http://www.defenselink.mil/recovery/>

PROVISION LOCATION	FUNDING	INDUSTRY/ SUBJECT MATTER	PROGRAM	PROGRAM OR FO DESCRIPTION	CRITERIA FOR FUNDING	IMPLEMENTATION/STATUS	NOTES
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> III</p> <p><u>Page:</u> HR 1-18 to 1-19</p> <p><u>Heading:</u> Department of Defense— Operation and Maintenance</p>	<p>\$3.84 B</p>		<p><i>I. Operation and Maintenance Activities</i></p>	<p>Funds appropriated to improve, repair, and modernize Department of Defense facilities, restore and modernize real property to include barracks, and invest in energy efficiency of facilities.</p> <p>Funds divided amongst:</p> <ul style="list-style-type: none"> • Army. • Army Reserve. • Army National Guard. • Navy. • Navy Reserve. • Marine Corps. • Marine Corps Reserve. • Air Force. • Air Force Reserve. • Air National Guard. 		<p>On March 20, 2009, DOD released its Expenditure Plan for projects to be funded with ARRA dollars. It is very detailed. See: http://www.defenselink.mil/recovery/plans_reports/2009/march/ARRA_DoD_Expenditure_Plans.pdf</p> <p>Funds are available until September 30, 2010.</p>	
<p><u>Doc.:</u> JES</p> <p><u>Title:</u> III</p> <p><u>Page:</u> 19</p> <p><u>Heading:</u> Defense— Department of Defense</p>	<p>\$300 M</p>		<p><i>II. Near Term Energy Efficiency Technology Demonstrations and Research</i></p>	<p>Funds for Army, Navy, Air Force, and Defense-Wide:</p> <ul style="list-style-type: none"> • Research, development, test, and evaluation projects and energy-efficient manufacturing enhancements; • Improvements in energy generation and efficiency, transmission, regulation, and storage; and • Use on military installations and within operational forces, to include research and development of energy from fuel cells, wind, solar power, and other renewable energy sources to include biofuels and bioenergy. 		<p>On March 20, 2009, DOD released its Expenditure Plan for projects to be funded with ARRA dollars. It is very detailed. See: http://www.defenselink.mil/recovery/plans_reports/2009/march/ARRA_DoD_Expenditure_Plans.pdf</p> <p>No later than one year after enactment of ARRA, the Secretary of Defense will provide a progress report to the congressional defense committees (and an additional report two years after enactment).</p>	

DEPARTMENT OF DEFENSE

<http://www.defenselink.mil/recovery/>

PROVISION LOCATION	FUNDING	INDUSTRY/ SUBJECT MATTER	PROGRAM	PROGRAM OR FO DESCRIPTION	CRITERIA FOR FUNDING	IMPLEMENTATION/STATUS	NOTES
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> III</p> <p><u>Page:</u> HR 1-20</p> <p><u>Heading:</u> Department of Defense—Other Department of Defense Programs</p>	\$400 M		III. <i>Defense Health Program</i>	Funds to improve, repair, and modernize military medical facilities and invest in the energy efficiency of military medical facilities.		<p>On March 20, 2009, DOD released its Expenditure Plan for projects to be funded with ARRA dollars. It is very detailed. See: http://www.defenselink.mil/recovery/plans_reports/2009/march/ARRA_DoD_Expenditure_Plans.pdf</p> <p>Funds to remain available for obligation until September 30, 2010.</p>	Service Surgeons General will provide written reports to the congressional defense committees no later than mid- April 2009 with a project listing of how and when these funds will be obligated.
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> X</p> <p><u>Page:</u> HR 1-78</p> <p><u>Heading:</u> Military Construction and Veterans Affairs— Department of Defense</p>	\$120 M (out of \$1.45 B)		IV. <i>Military Construction, Defense-Wide</i>	<p>Funds may be obligated and expended to carry out planning and design and military construction projects in the United States not otherwise authorized by law.</p> <p>Of \$1.45 B, \$120 M is for the Energy Conservation Investment Program ("ECIP"). ECIP projects improve energy and water efficiency in existing facilities and produce average savings of about \$2 for every \$1 invested.</p>		<p>On March 20, 2009, DOD released its Expenditure Plan for projects to be funded with ARRA dollars. See: http://www.defenselink.mil/recovery/plans_reports/2009/march/ARRA_DoD_Expenditure_Plans.pdf</p> <p>Funds to remain available until September 30, 2013.</p>	
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> X</p> <p><u>Page:</u> HR 1-77 to 78</p> <p><u>Heading:</u> Military Construction and Veterans Affairs— Department of Defense</p>	\$100 M		V. <i>Military Construction, Navy and Marine Corps</i>	Funds allocated for planning and design and military construction projects in the U.S. that are also energy conservation and alternative energy projects.		<p>On March 20, 2009, DOD released its Expenditure Plan for projects to be funded with ARRA dollars. It is very detailed. See: http://www.defenselink.mil/recovery/plans_reports/2009/march/ARRA_DoD_Expenditure_Plans.pdf</p> <p>Funds are to remain available until September 30, 2013.</p>	

GENERAL SERVICES ADMINISTRATION

http://www.gsa.gov/Portal/gsa/ep/contentView.do?contentType=GSA_OVERVIEW&contentId=25761

PROVISION LOCATION	FUNDING	INDUSTRY/ SUBJECT MATTER	PROGRAM	PROGRAM OR FO DESCRIPTION	CRITERIA FOR FUNDING	IMPLEMENTATION/STATUS	NOTES
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> V</p> <p><u>Page:</u> HR 1-36</p> <p><u>Heading:</u> General Services Administration—Energy-Efficient Federal Motor Vehicle Fleet Procurement</p>	<p>\$300 M</p>	<ul style="list-style-type: none"> Public Funds Automotive Fuel Economy 	<p>I. Energy-Efficient Federal Motor Vehicle Fleet Procurement</p>	<p>For capital expenditures and necessary expenses of acquiring motor vehicles with higher fuel economy, including hybrid vehicles; electric vehicles; and commercially available, plug-in hybrid vehicles.</p>		<p>On April 9, 2009, GSA announced its Efficient Vehicles Plan. To view GSA plan, see: http://www.gsa.gov/graphics/admin/GSA_FAS_Recovery_VehicleSpendPlan.doc</p> <p>GSA will report on the obligation of these funds on a quarterly basis beginning September 30, 2009.</p> <p>Funds to remain available until September 30, 2011.</p>	<ul style="list-style-type: none"> Plan must detail the current inventory of the federal fleet owned by the GSA, as well as other federal agencies, and the strategy to expend these funds to replace a portion of the federal fleet with the goal of substantially increasing energy efficiency over the current status, including increasing fuel efficiency and reducing emissions.
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> V</p> <p><u>Page:</u> HR 1-35</p> <p><u>Heading:</u> General Services Administration—Real Property Activities</p>	<p>\$4.5 B</p>	<ul style="list-style-type: none"> Government Building Retrofits 	<p>II. <i>High-Performance Green Buildings</i></p>	<p>Funds available for measures necessary to convert GSA facilities to High-Performance Green Buildings.</p> <p>High-Performance Green Buildings integrate and optimize on a lifecycle basis major high-performance attributes (e.g., energy conservation, environment, safety, security, durability) and, as compared with similar buildings, they:</p> <ul style="list-style-type: none"> Reduce energy, water, and material resource use; Improve indoor environmental quality (e.g., reducing indoor pollution, improving thermal comfort); Reduce negative impacts on the environment throughout the lifecycle of the building; Increase the use of environmentally preferable products; Increase reuse and recycling opportunities; 		<p>On March 31, 2009, GSA announced its plan, by project, for use of ARRA funds to convert government facilities to High-Performance Green Buildings. To view GSA plan, see: http://www.gsa.gov/graphics/pbs/American_Recovery_and_Reinvestment_Act_2009.pdf.</p> <p>GSA will report to Congress on the obligation of these funds on a quarterly basis beginning June 30, 2009.</p> <p>The majority of the funds provided must be obligated by September 30, 2010, and the remainder of the funds provided shall be obligated not later than September 30, 2011.</p>	<ul style="list-style-type: none"> High-Performance Green Building defined in EISA Section 401.

GENERAL SERVICES ADMINISTRATION

http://www.gsa.gov/Portal/gsa/ep/contentView.do?contentType=GSA_OVERVIEW&contentId=25761

PROVISION LOCATION	FUNDING	INDUSTRY/ SUBJECT MATTER	PROGRAM	PROGRAM OR FO DESCRIPTION	CRITERIA FOR FUNDING	IMPLEMENTATION/STATUS	NOTES
				<ul style="list-style-type: none"> • Integrate systems in the building; • Reduce the environmental and energy impacts of transportation through building location; and • Consider indoor and outdoor effects of the building on human health and the environment. 			

DEPARTMENT OF THE INTERIOR

<http://www.doi.gov/recovery/>

PROVISION LOCATION	FUNDING	INDUSTRY/ SUBJECT MATTER	PROGRAM	PROGRAM OR FO DESCRIPTION	CRITERIA FOR FUNDING	IMPLEMENTATION/STATUS	NOTES
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> VII</p> <p><u>Page:</u> HR 1-53</p> <p><u>Heading:</u> Bureau of Land Management—Construction</p>	\$180 M	<ul style="list-style-type: none"> Facility Retrofits 	I. <i>Bureau of Land Management—Construction</i>	For activities on all Bureau of Land Management lands including construction, reconstruction, decommissioning, and repair of roads, bridges, trails, property, and facilities and for energy-efficient retrofits of existing facilities.			To view the agency's spending plans for this allocation, go to http://www.recovery.gov/ , and under "Read Agency Reports," select the Department of Interior and click "Go." The plans will show up on the next screen.
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> VII</p> <p><u>Page:</u> HR 1-53</p> <p><u>Heading:</u> United States Fish and Wildlife Service—Construction</p>	\$115 M	<ul style="list-style-type: none"> Facility Retrofits 	II. <i>United States Fish and Wildlife Service—Construction</i>	For construction and repair of roads, bridges, property, and facilities and for energy-efficient retrofits of existing facilities.			To view the agency's spending plans for this allocation, go to http://www.recovery.gov/ , and under "Read Agency Reports," select the Department of Interior and click "Go." The plans will show up on the next screen.
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> VII</p> <p><u>Page:</u> HR 1-53</p> <p><u>Heading:</u> National Park Service—Construction</p>	\$589 M	<ul style="list-style-type: none"> Facility Retrofits 	III. <i>National Park Service—Construction</i>	For repair and restoration of roads; construction of facilities, including energy-efficient retrofits of existing facilities; equipment replacement; preservation and repair of historical resources within the National Park System; cleanup of abandoned mine sites on park lands; and other critical infrastructure projects.			To view the agency's spending plans for this allocation, go to http://www.recovery.gov/ , and under "Read Agency Reports," select the Department of Interior and click "Go." The plans will show up on the next screen.

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

<http://www.hud.gov/recovery/>

PROVISION LOCATION	FUNDING	INDUSTRY/ SUBJECT MATTER	PROGRAM	PROGRAM OR FO DESCRIPTION	CRITERIA FOR FUNDING	IMPLEMENTATION/STATUS	NOTES
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> XII</p> <p><u>Page:</u> HR 1-101</p> <p><u>Heading:</u> Public and Indian Housing—Public Housing Capital Fund</p>	\$1.0 B		I. Public Housing Capital Fund	<p>The Public Housing Capital Fund provides funds for the capital and management activities of public housing agencies.</p> <p>Funds from ARRA are available by formula and competition.</p> <p>Competitive funds will be available for priority investments (including investments that leverage private sector funding or financing) for renovations and energy conservation retrofit investments.</p>	<ul style="list-style-type: none"> Funds will go to public housing agencies that own or operate low-income public housing and are eligible to receive capital funding under Section 9 of the United States Housing Act of 1937. Public housing authorities shall give priority to capital projects that can award contracts based on bids within 120 days from the date the funds are made available to the public housing authorities. Public housing agencies shall give priority consideration to the rehabilitation of vacant rental units and capital projects that are already underway or included in the 5-year capital fund plans. 	<p><u>Formula Awards</u></p> <ul style="list-style-type: none"> Formula fund allocations by state: http://www.hud.gov/recovery/capitalfund.xls For general information on formula funding and implementation, see: http://www.hud.gov/offices/pih/programs/ph/capfund/ind ex.cfm <p><u>Competitive Awards</u></p> <p>On May 7, 2009, HUD issued a Notice of Funding Availability (“NOFA”) seeking applications for funds.</p> <p>To access the NOFA, go to: http://www.hud.gov/recovery/ph capfundh.cfm</p> <ul style="list-style-type: none"> Awards shall be obligated through competitive funding by September 30, 2009. <p>Additional milestones in the award process include:</p> <ul style="list-style-type: none"> HUD approval of applications; Signing by the public housing authority of a Capital Fund Program Amendment to the Consolidated Annual Contributions Contract for selected applicants; Execution of the ACC by the HUD Field Office; and Spreading of funds awarded in HUD’s Line of Credit Control System. 	
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> XII</p> <p><u>Page:</u> HR 1-103</p>	\$1.0 B	<ul style="list-style-type: none"> Public Funding Efficiency/ Conservation 	II. Community Development Block Grant Program	Funding for activities undertaken for the purpose of energy efficiency and/or energy conservation, including, e.g., demolition and reconstruction activities,	The annual appropriation is allocated between states and local jurisdictions called “non-entitlement” and “entitlement” communities.	<p>See the following link for updates on implementation: http://www.hud.gov/recovery/cd block.cfm</p> <p>Allocations are as follows:</p>	<ul style="list-style-type: none"> Program established under Housing and Community Development Act of 1974, Title I (42 U.S.C. 5301 et seq.).

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

<http://www.hud.gov/recovery/>

PROVISION LOCATION	FUNDING	INDUSTRY/ SUBJECT MATTER	PROGRAM	PROGRAM OR FO DESCRIPTION	CRITERIA FOR FUNDING	IMPLEMENTATION/STATUS	NOTES
<p><u>Heading:</u> Community Planning and Development—Community Development Fund</p>				<p>and development of energy use plans.</p> <p>Program provides annual grants on a formula basis to 1,180 general units of local government and states.</p>	<p>Eligible applicants for ARRA funds include units that received funding in 2008, non-entitlement jurisdictions in Hawaii, and “Insular Areas.”</p> <p>Entitlement communities:</p> <ul style="list-style-type: none"> • Central cities of Metropolitan Statistical Areas; • Metropolitan cities with populations of at least 50,000; • Qualified urban counties with a population of 200,000 or more (excluding the populations of entitlement cities). <p>States distribute funds to non-entitlement localities not qualified as entitlement communities.</p>	<p>http://www.hud.gov/recovery/cd_bq.xls</p> <p>HUD determined the amount of each grant by using a formula comprising several measures of community need, including the extent of poverty, population, housing overcrowding, age of housing, and population growth lag in relationship to other metropolitan areas.</p>	<ul style="list-style-type: none"> • Funds to remain available until September 30, 2010.
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> XII</p> <p><u>Page:</u> HR 1-108 to 109</p> <p><u>Heading:</u> Housing Programs—Assisted Housing Stability and Energy and Green Retrofit Investments</p>	<p>\$250 M (out of \$2.25 B)</p>	<ul style="list-style-type: none"> • Residential • Retrofits and Maintenance • Efficiency/Conservation 	<p>III. Assisted Housing Stability and Energy and Green Retrofit Investments</p>	<p>\$250 M in grants and loans will be made available through HUD’s Office of Affordable Housing Preservation for eligible property owners (in assisted housing):</p> <ul style="list-style-type: none"> • To make energy and green retrofit investments in the property; • To ensure the maintenance and preservation of the property; • To ensure the continued operation and maintenance of energy efficiency technologies; and • To ensure the timely expenditure of funds. 	<p>Assistance will go to owners of properties receiving project-based assistance pursuant to:</p> <ul style="list-style-type: none"> • Section 202 of the Housing Act of 1959 (12 U.S.C. 17012); • Section 811 of the Cranston-Gonzalez National Affordable Housing Act (42 U.S.C. 8013); or • Section 8 of the United States Housing Act of 1937 as amended (42 U.S.C. 1437f). 	<p>Full detail on how to apply, and grant and loan terms, are due to be published in a Housing Notice “shortly.”</p> <p>See the following link for information on implementation: http://www.hud.gov/recovery/ah_etrofith.cfm</p>	<p>General notes on grants and loans:</p> <ul style="list-style-type: none"> • Physical and financial analyses of the properties will be conducted to determine the size of each grant and loan. • Incentives will be made available to participating owners. • The terms of the grants or loans will include continued affordability agreements. • Grant and loan funds must be spent by the receiving property owner within two years.

DEPARTMENT OF TRANSPORTATION

<http://www.dot.gov/recovery/>

PROVISION LOCATION	FUNDING	INDUSTRY/ SUBJECT MATTER	PROGRAM NAME	PROGRAM OR FO DESCRIPTION	CRITERIA FOR FUNDING	IMPLEMENTATION/STATUS	NOTES
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> XII</p> <p><u>Page:</u> HR 1-95</p> <p><u>Heading:</u> Federal Transit Administration—Transit Capital Assistance</p>	<p>\$100 M</p>	<ul style="list-style-type: none"> • Public Agency Funding • Transportation • Capital Investments 	<p>I. Transit Capital Assistance</p>	<p>Discretionary grants to public transit agencies for capital investments that will assist in reducing the energy consumption or greenhouse gas emissions of their public transportation systems.</p>		<p>On March 24, 2009, the Federal Register published DOT's Solicitation of Comments and Notice of Availability of Fiscal Year 2009 Funding for Transit Investments for Greenhouse Gas and Energy Reduction ("TIGGER") Grants, with comments due by April 7, 2009.</p> <p>See: http://edocket.access.gpo.gov/2009/pdf/E9-6420.pdf</p> <p>Complete proposals for the TIGGER Grant Program must be submitted by May 22, 2009.</p>	<ul style="list-style-type: none"> • Priority given to projects based on the total energy savings that are projected to result from the investment, and projected energy savings as a percentage of the total energy usage of the public transit agency.

DEPARTMENT OF LABOR

<http://www.dol.gov/recovery/>

PROVISION LOCATION	FUNDING	INDUSTRY/ SUBJECT MATTER	PROGRAM NAME	PROGRAM OR FO DESCRIPTION	CRITERIA FOR FUNDING	IMPLEMENTATION/STATUS	NOTES
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> VIII</p> <p><u>Page:</u> HR 1-58 to 1-59</p> <p><u>Heading:</u> Employment and Training Administration— Training and Employment Services</p>	<p>\$500 M</p>	<ul style="list-style-type: none"> • Worker Training • Renewable Energy • Energy Efficiency 	<p>I. <i>Green Job Training Grant Program</i></p>	<p>Program of competitive grants for worker training and placement in high-growth and emerging industry sectors with \$500 M earmarked for research, labor exchange, and job-training projects that prepare workers for careers in energy efficiency and renewable energy.</p> <p>The Secretary of Labor will establish an energy-efficient and renewable energy worker-training program in consultation with the Secretary of Energy that will target worker training for:</p> <ul style="list-style-type: none"> • Workers affected by national energy and environmental policy; • Individuals in need of updated training related to the energy efficiency and renewable energy industries; • Veterans and reserve service members; • Unemployed workers; • Individuals, including at-risk youth, seeking employment pathways out of poverty and into economic self-sufficiency; and • Formerly incarcerated, adjudicated, nonviolent offenders. 	<p>The following is a nonexclusive list of industries eligible to participate in the program:</p> <ul style="list-style-type: none"> • Energy-efficient building, construction, and retrofits; • Renewable electric power; • Energy-efficient and advanced drivetrain vehicle; • Biofuels; • Deconstruction and materials use; • Residential, commercial, or industrial energy efficiency assessment; and • Manufacturers that produce sustainable products using environmentally sustainable processes and materials. 	<p>The Dept. of Labor intends to post the requests for proposals no later than June 30, 2009.</p>	<ul style="list-style-type: none"> • Program created by the Green Jobs Act of 2007, which added Section 171(e) to the Workforce Investment Act of 1998 (29 U.S.C. 2801, et seq.).

DEPARTMENT OF LABOR

<http://www.dol.gov/recovery/>

PROVISION LOCATION	FUNDING	INDUSTRY/ SUBJECT MATTER	PROGRAM NAME	PROGRAM OR FO DESCRIPTION	CRITERIA FOR FUNDING	IMPLEMENTATION/STATUS	NOTES
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> VIII</p> <p><u>Page:</u> HR 1-60</p> <p><u>Heading:</u> Departmental Management— Office of Job Corps</p>	<p>\$37.5M</p>		<p>II. Office of Job Corps</p>	<p>Funding up to 15% of \$250 M (i.e., \$37.5 M) may be used for the operational needs of Job Corps centers. Operational needs can include training for careers in energy efficiency, renewable energy, and environmental protection industries.</p> <p>Funds may also be used to encourage design/ construction projects to use energy-efficient and recyclable materials.</p>	<p>Funding will go to the 122 Job Corps centers located throughout the U.S.</p>		<ul style="list-style-type: none"> • Job Corps centers offer educational training and a variety of vocational training programs. • The following is a link to the Job Corps site that provides information for businesses on benefits of the Job Corps: http://www.jobcorps.gov/business.aspx

DEPARTMENT OF VETERANS AFFAIRS

<http://www.va.gov/recovery/>

PROVISION LOCATION	FUNDING	INDUSTRY/ SUBJECT MATTER	PROGRAM	PROGRAM OR FO DESCRIPTION	CRITERIA FOR FUNDING	IMPLEMENTATION/STATUS	NOTES
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> X</p> <p><u>Page:</u> HR 1-85</p> <p><u>Heading:</u> Department of Veterans Affairs— Veterans Health Administration – Medical Facilities</p>	\$1.0 B		I. Veterans Health Administration— Medical Facilities	Funds appropriated for nonrecurring maintenance of medical facilities, including energy projects.		<p>The Expenditure Plan for funds provided under this heading is now available. See: http://www.va.gov/RECOVERY/Agency_Plans_and_Reports.asp</p> <p>Funds to remain available until September 30, 2010.</p>	
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> X</p> <p><u>Page:</u> HR 1-85</p> <p><u>Heading:</u> Department of Veterans Affairs— National Cemetery Administration</p>	\$50 M		II. National Cemetery Administration	Funds for monument and memorial repairs, including energy projects.		<p>The Expenditure Plan for funds provided under this heading is now available. See: http://www.va.gov/RECOVERY/Agency_Plans_and_Reports.asp</p> <p>Funds to remain available until September 30, 2010.</p>	

DEPARTMENT OF EDUCATION

<http://www.ed.gov/policy/gen/leg/recovery/index.html>

PROVISION LOCATION	FUNDING	INDUSTRY/ SUBJECT MATTER	PROGRAM	PROGRAM OR FO DESCRIPTION	CRITERIA FOR FUNDING	IMPLEMENTATION/STATUS	NOTES
<p><u>Doc.:</u> ARRA</p> <p><u>Title:</u> VIII</p> <p><u>Page:</u> HR 1-75 to 76</p> <p><u>Heading:</u> General Provisions, Sec. 805—Grants for Impact Aid Construction</p>	<p>\$60 M (out of \$100 M)</p>	<ul style="list-style-type: none"> • Education • Facility Repair • Facility Modernization • Construction 	<p>I. School Modernization Grants</p>	<p>Grants to eligible local educational agencies to enable them to carry out emergency repairs of school facilities; and modernization grants to carry out modernization of school facilities—to include energy efficiency improvements.</p>	<p>Local education agency is eligible to receive a grant if:</p> <ul style="list-style-type: none"> • Agency was eligible to receive payment under ESEA Section 8002 or 8003 for 2008; <u>and</u> • It has less than \$100 M total taxable assessed value of real property that may be taxed for school purposes or has a lower assessed value per student average than the state does. <p>Other funding considerations:</p> <ul style="list-style-type: none"> • Whether the facility poses a health/safety threat; • Whether the existing building capacity meets the needs of the current enrollment and supports the provision of services to meet state standards; • The extent to which design and construction utilize energy-efficient and recyclable materials; • The extent to which new design and proposed construction utilizes nontraditional/alternative methods to speed construction/completion and maximize cost efficiency; • Feasibility of project completion within 24 months from the award; and • Availability of other resources for the proposed project. 		<ul style="list-style-type: none"> • Authorized under the Elementary and Secondary Education Act of 1965 (“ESEA”), Section 8007(b) (20 U.S.C 7707(b)).

