

**SUMMARY OF ENERGY-RELATED PROGRAMS IN THE
AMERICAN RECOVERY AND REINVESTMENT ACT OF 2009**

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I. ENERGY EFFICIENCY PROGRAMS

Stimulus Bill Funding Avenue	Funding Level and Purpose	Recipient	Allocation of Funds	Areas of Potential Funding Opportunities
State Energy Program (SEP) (Title IV)	\$3.1 billion for the Department of Energy's (DOE) SEP, which provides grants to state energy offices to be used for energy efficiency and renewable energy programs. Eligibility for some SEP funds is conditioned on Governor's assurances regarding state utility regulatory policies on energy efficiency, building code requirements and the prioritization of existing state programs. Authorized under Part D of Title III of the Energy Policy and Conservation Act (EPCA).	Funds are to be distributed through the existing SEP.	The objectives of the SEP are to promote the conservation of energy and to reduce the rate of growth of energy demand through the development and implementation of a comprehensive State energy conservation plan and the provision of Federal financial and technical assistance to States in support of the program. Funds can be used for a variety of energy related initiatives including subgrants across all sectors of the economy.	<ul style="list-style-type: none"> ▪ Renewables ▪ States/Local Governments ▪ Energy Efficiency ▪ 3rd Party Providers ▪ Utilities
Energy Efficiency and Conservation Block Grant Program (Title IV)	\$3.2 billion in grants from DOE to assist local governments in implementing energy efficiency and conservation programs. Authorized in Title V of the Energy Independence and Security Act (EISA). <ul style="list-style-type: none"> • \$2.8 billion is awarded based on existing grant formula. • \$400 million is awarded on a competitive basis through DOE. 	States, local governments and Indian tribes are eligible for the grants.	Funds are to reduce energy use and fossil fuel emissions, and improve energy efficiency in the transportation sector, the building sector, or other appropriate sectors. Funds will go towards energy audit programs and projects to install fuel cells and solar, wind, and biomass power projects at government buildings.	<ul style="list-style-type: none"> ▪ Energy Efficiency ▪ Renewables ▪ Indian Tribes ▪ Solar ▪ Wind ▪ Biomass ▪ Smart Grid ▪ States/Local Governments ▪ Institutions ▪ 3rd Party Providers ▪ Cities ▪ Utilities

Stimulus Bill Funding Avenue	Funding Level and Purpose	Recipient	Allocation of Funds	Areas of Potential Funding Opportunities
<p>Research, Development, Demonstration, and Deployment</p> <p>(Title IV)</p> <p><i>* This funding is also referenced under Energy Technology Programs, see p. 17.</i></p>	<p>\$400 million for the Advanced Research Projects Agency-Energy. (ARPA-E) Authorized under Section 5012 of the America Competes Act.</p> <p>\$2.5 billion through DOE for support of energy efficiency and renewable energy research, development, demonstration and deployment activities.</p>	<p>Funds are awarded on a competitive basis to universities, companies, and national laboratories.</p>	<p>Funds are for the ARPA-E.</p> <p>Does not fund a specific program or appear to create a new program. Goal of accelerating development of technologies including batteries, water power, and solar energy.</p> <p>\$800 million used for biomass projects, \$400 million for geothermal projects and \$50 million for efforts to increase energy efficiency of information and communications technology.</p>	<ul style="list-style-type: none"> ▪ Energy Efficiency ▪ Renewables ▪ Biomass ▪ Geothermal ▪ Solar ▪ Hydro ▪ Smart Grid ▪ Utilities
<p>Weatherization Assistance Program</p> <p>(Title IV)</p>	<p>\$5 billion for DOE formula grants for the weatherization of low-income family homes. Authorized in Title IV, Part A of the Energy and Conservation and Production Act, Public Law 94-385. (Title IV)</p> <p>The American Recovery and Reinvestment Act (ARRA) increases the income levels eligible for the program to 200% of the federal poverty level, raises the amount of assistance available for each unit to \$6,500, and increases the amount of funding that is available for training and technical assistance up to 20%. (Title IV, Sec. 407)</p>	<p>This program provides formula grants: 80% to states and 20% for national training and technical assistance. For state-by-state allocations see: http://apps1.eere.energy.gov/weatherization/state_activities.cfm</p> <p>The states pass the funds to weatherization service providers, typically non-profit agencies.</p> <p>Recipients vary by state; typically the Housing/Community/Economic Development Agency or, in some cases, the State Energy Office or Environmental Affairs Office.</p>	<p>Funds can be used to improve the energy efficiency of low-income homes.</p> <p>Funds available to be obligated until September 30, 2010.</p>	<ul style="list-style-type: none"> ▪ States/Local Governments ▪ 3rd Party Providers ▪ Utilities

Stimulus Bill Funding Avenue	Funding Level and Purpose	Recipient	Allocation of Funds	Areas of Potential Funding Opportunities
<p>Qualified Energy Conservation Bonds</p> <p>(Div. B, Title I, Subtitle B, Part II, Sec. 1112)</p>	<p>Increases authorization for qualified energy conservation bonds from \$800 million to \$3.2 billion.</p>	<p>These bonds are allocated by Treasury and may be issued by states, localities, and tribal governments to support activities targeting the reduction of greenhouse gas emissions, including the financing of retrofits. Additionally, AARA clarifies that such bonds may be used to support grants and loans for "green community programs."</p>	<p>Qualified conservation purposes include:</p> <ul style="list-style-type: none"> ➤ Expenditures with respect to research facilities, and research grants, to support research in- <ul style="list-style-type: none"> • Development of cellulosic ethanol or nonfossil fuels; • Technologies for the capture and sequestration of CO₂ produced through the use of fossil fuels; • Increasing the efficiency of existing technologies producing fossil fuel; • Automobile battery technologies and other technologies to reduce fossil fuel consumption in transportation; and • Technologies to reduce energy use in buildings. ➤ Demonstration projects designed to promote the commercialization of- <ul style="list-style-type: none"> • Green building technology; • Conversion of agricultural waste for use in the production of fuel or otherwise; • Advanced battery manufacturing technologies; or • Technologies to reduce peak use of electricity. 	<ul style="list-style-type: none"> ▪ Indian Tribes ▪ Coal/CCS ▪ Biofuels ▪ Biomass ▪ States/Local Governments ▪ Institutions ▪ Clean Technology ▪ Utilities

Stimulus Bill Funding Avenue	Funding Level and Purpose	Recipient	Allocation of Funds	Areas of Potential Funding Opportunities
<p>Assisted Housing (Title XII)</p>	<p>\$250 million will support a program to upgrade HUD-sponsored low-income housing to increase energy efficiency.</p> <p>\$1 billion for the Public Housing Capital Fund for competitive grants, including investments that leverage private sector funding or financing for renovations and energy conservation retrofit investments.</p> <p>\$510 million to rehabilitate and improve energy efficiency in houses maintained by Native American housing programs. Of this amount, \$255 million will be distributed by the current Native American Housing Block Grant formula and \$255 million will be distributed by a grant competition.</p>	<p>Publicly assisted housing owners; Tribal Government; Businesses; Individuals</p>	<p>Funding is in the form of grants or loans to be distributed by the Office of Affordable Housing Preservation of HUD. Funding is to be used to accomplish energy efficiency retrofit investments and increase energy efficiency.</p> <p>Funding is available until September 30, 2012.</p>	<ul style="list-style-type: none"> ▪ Indian Tribes ▪ 3rd Party Providers ▪ Utilities
<p>Energy Efficient Appliance Rebate Programs (Title IV)</p>	<p>\$300 million for the Energy Star Program and for matching grants for state rebates to consumers for buying energy efficient Energy Star products to replace old appliances. Authorized under Section 124 of the Energy Policy Act of 2005 (EPAAct/05), for the Energy Star Program.</p>	<p>A state can receive funding if they have a rebate program for Energy Star products and submit an application to DOE.</p> <p>The funding each state receives is determined by formula: The ratio of the state's population to the total population of all eligible states.</p>	<p>Funding used to provide consumers with rebates to replace old appliances with energy efficient Energy Star products.</p>	<ul style="list-style-type: none"> ▪ Smart Grid ▪ Solar ▪ Wind ▪ Geothermal ▪ States/Local Governments ▪ Utilities

II. GREEN JOBS

Stimulus Bill Funding Avenue	Funding Level and Purpose	Recipient	Allocation of Funds	Areas of Potential Funding Opportunities
<p>Green Jobs (Title VIII)</p>	<p>\$500 million through the Department of Labor for competitive grants for research, labor exchange and job training projects to prepare workers for careers in energy efficiency and renewable energy industries. Authorized by Section 171(e)(1)(B)(ii) of the Workforce Investment Act.</p> <p>\$100 million for DOE green job training expenditures. (Title IV).</p> <p>Provides \$250 million to the Department of Labor for the Office of Job Corps for use in the construction, rehabilitation, and acquisition of Job Corps Centers. Up to 15% (\$37.5 million) of this funding may be directed by the Secretary to “meet the operational needs of such centers, which may include training for careers in the energy efficiency, renewable energy, and environmental protection industries.”</p>	<p>Funds provided to existing Job Corp Centers (grantees).</p>	<p>The funds are available to train workers for careers in the energy efficiency and renewable energy industries. The funds are also available to support worker training for other economic recovery funds such as retrofitting of buildings, green construction, and renewable electric power production.</p>	<ul style="list-style-type: none"> ▪ Renewables ▪ Energy Efficiency ▪ 3rd Party Providers ▪ Utilities

III. TRANSMISSION/SMART GRID

Stimulus Bill Funding Avenue	Funding Level and Purpose	Recipient	Allocation of Funds	Areas of Potential Funding Opportunities
Smart Grid (Title IV)	<p>\$4.5 billion from DOE for research and development, pilot projects, and federal matching funds for the Smart Grid Investment Program to modernize the electricity grid. Authorized under Title XIII of EISA. (Title IV, Sec. 405)</p> <p>\$100 million for green job training. (Title IV)</p>	<p>Electric utilities and other parties involved in smart grid development, which could include non-utility recipients and public-private partnerships.</p> <p>The funds are in the form of competitive grants for electric utilities or other parties with up to 50% of the cost of qualifying advanced grid technology investments for demonstration projects.</p>	<p>Funding is available for electricity delivery and energy reliability activities to modernize the electric grid, enhance the security and reliability for energy infrastructure, energy storage RD&D, and for implementation of Title XIII of EISA.</p> <p>\$80 million to be used for the DOE office of Electricity Delivery and Energy Reliability to conduct a resource assessment and an analysis of future demand and transmission requirements.</p> <p>\$10 million of funds is designated for implementation of section 1305 of EISA.</p>	<ul style="list-style-type: none"> ▪ Smart Grid ▪ Transmission ▪ States/ Local Governments ▪ Utilities
Electric Transmission Projects by Federal Utilities (Title IV)	<p>\$3.25 billion in additional borrowing authority from the Treasury for transmission projects for the Bonneville Power Administration (BPA). (Title IV, Sec. 401)</p> <p>\$3.25 billion in additional borrowing authority for transmission projects for the Western Area Power Administration (WAPA). (Title IV, Sec. 402)</p>	<p>Funds to BPA may be used to finance the construction, acquisition, and replacement of the transmission system of BPA and to implement the authority of the Administrator.</p> <p>Funding allocation to WAPA is for the purpose of constructing, financing, facilitating or studying construction of new or upgraded electric power transmission lines or for facilitating the delivery or power generated by renewable energy resources.</p>	<p>Advancement of transmission.</p>	<ul style="list-style-type: none"> ▪ Transmission ▪ Renewables ▪ Smart Grid ▪ Utilities

IV. GREEN BUILDINGS

Stimulus Bill Funding Avenue	Funding Level and Purpose	Recipient	Allocation of Funds	Areas of Potential Funding Opportunities
<p>Green Schools (Title XIV, Sec. 14002)</p>	<p>\$9.75 billion to the State Fiscal Stabilization Fund, administered by the Department of Education, for public safety and other government services, which may include assistance for elementary and secondary education and public institutions of higher education, and for modernization, renovation or repair of public school facilities and public institutions of higher education facilities, including modernization, renovation, and repairs that are consistent with a recognized green building rating system.</p>	<p>The Secretary of Education will allocate funds to states (for use by governors) based on population of individuals aged 5 through 24.</p>	<p>Funds must be awarded as subgrants or otherwise committed within 2 years of receipt.</p>	<ul style="list-style-type: none"> ▪ Renewables ▪ States/Local Governments ▪ 3rd Party Providers ▪ Energy Efficiency ▪ Utilities
<p>Federal Buildings</p>	<p>\$3.6 billion for Department of Defense (DOD) energy efficiency projects and modernization of facilities. (Title III)</p> <p>\$4.5 billion to the General Services Administration (GSA) for measures to convert GSA facilities to High-Performance Green Buildings. (Title V)</p> <p>\$400 million to fund the GSA Office of Federal High Performance Green Buildings. (Title V)</p> <p>\$75 million for DOD-wide funding of research, development, and evaluation projects, including pilot projects, demonstrations, and energy efficiency enhancements. (Title II)</p> <p>Additionally, there are 11 more agencies that received some Stimulus funding for energy efficiency improvements.</p>			<ul style="list-style-type: none"> ▪ Renewables ▪ Energy Efficiency ▪ 3rd Party Providers ▪ Utilities

V. TRANSPORTATION

Stimulus Bill Funding Avenue	Funding Level and Purpose	Recipient	Allocation of Funds	Areas of Potential Funding Opportunities
<p>Public Transportation and Rail (Title XII)</p>	<p>\$8 billion for capital assistance for high-speed rail corridors and Intercity Passenger Rail Service.</p> <p>\$6.9 billion for transit capital assistance, of which \$100 million is for 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>\$1.5 billion in grants for state governments, local governments and transit agencies, for capital investments in surface transportation infrastructure, including New Starts and Small Starts projects and passenger and freight rail transportation projects, as well as highway and bridge projects.</p> <p>\$1.3 billion for Amtrak, of which \$450 million shall be used for capital security grants.</p>		<p>Funds are allocated by the Department of Transportation (DOT) between the Capital Assistance to States program and a new High Speed Passenger Rail program.</p> <p>Funds allocated by Federal Transit Administration.</p> <p>Funds administered by DOT.</p>	<ul style="list-style-type: none"> ▪ Rail ▪ States/Local Governments
<p>High Speed Rail Bonds (Div. B, Title I, Subtitle F, Part I, Sec. 1504)</p>	<p>Modifies the exempt facility bond eligibility requirement for high-speed intercity rail transportation facilities to use vehicles capable of attaining a maximum speed in excess of 150 mph.</p>			<ul style="list-style-type: none"> ▪ Rail ▪ States/Local Governments

Stimulus Bill Funding Avenue	Funding Level and Purpose	Recipient	Allocation of Funds	Areas of Potential Funding Opportunities
<p>Advanced Batteries (Title IV)</p>	<p>\$2 billion for DOE grants to assist U.S. companies in the manufacturing of advanced battery systems and components, including funding awards to manufacturers of advanced battery systems and vehicle batteries, including advanced lithium ion batteries, hybrid electrical systems, component manufacturers, and software designers.</p>	<p>Manufacturing facilities will receive the funds.</p>	<p>\$1.5 billion in grants to U.S. based manufacturers to produce highly efficient batteries and their components.</p> <p>\$500 million in grants to U.S. based manufacturers to produce other components needed for electric vehicles, such as electric motors and other components.</p> <p>\$400 million to demonstrate and evaluate Plug-In Hybrids and other electric infrastructure concepts -- like truck stop charging station, electric rail, and training for technicians to build and repair electric vehicles.</p>	<ul style="list-style-type: none"> ▪ Smart Grid ▪ Renewables ▪ Transportation ▪ Utilities
<p>Plug-in Electric Vehicles (Title V)</p>	<p>\$400 million to establish a grant program through the DOE Clean Cities Program to encourage the use of plug-in electric drive vehicles. Authorized under Section 131 of EISA.</p>	<p>This grant program may provide up to 30 geographically dispersed project grants.</p> <p>Funding would go directly to either states, local governments, air pollution control districts, metropolitan transportation authorities, or non-profits; however, a minimum of one-third of the funding must go to local governments.</p>	<p>The grants may be used for the acquisition of alternative-fuel vehicles, fuel cell vehicles, or hybrid vehicles, including buses for public transportation and ground support vehicles at public airports. The installation or acquisition of infrastructure necessary to directly support an alternative-fuel vehicle, fuel cell vehicle, or hybrid vehicle project funded by the grant is also eligible.</p>	<ul style="list-style-type: none"> ▪ Renewables ▪ States/Local Governments ▪ Smart Grid ▪ Utilities

Stimulus Bill Funding Avenue	Funding Level and Purpose	Recipient	Allocation of Funds	Areas of Potential Funding Opportunities
Alternative Transportation Grants and Programs (Title VII)	\$300 million for assistance to state and local governments to acquire efficient alternative fuel vehicles. Authorized under Section 721 of the EPAAct/05. \$300 million for grants to state and local governments to reduce diesel emissions. Authorized under Title VII, Subtitle G of the EPAAct/05.	States, local governments, metropolitan transportation authorities, air pollution control districts, and private or nonprofit enterprises. Regional and local governments are eligible for the diesel emissions reduction grants, administered by the EPA. Private sector applicants cannot apply directly, but can do so in partnership with state and local governments or a non-governmental organization.		<ul style="list-style-type: none"> ▪ Renewables ▪ States/Local Governments
Federal Fleet (Title V)	\$300 million for GSA's Motor Vehicle Acquisition and Motor Vehicle Leasing program, in order to replace the Federal fleet with more efficient vehicles.	New funds are available for federal agencies to purchase plug-in hybrid vehicles.	Each vehicle purchased must have a higher fuel economy, as measured by EPA, than the vehicle being replaced. The overall government purchased vehicles must have at least a 10% greater fuel economy than the vehicles being replaced.	<ul style="list-style-type: none"> ▪ 3rd Party Providers
Transit Benefits (Div. B, Title I, Subtitle B, Part VI, Sec. 1151)	Increases the monthly exclusion for employer-provided transit and vanpool benefits to the level of employer-provided parking level of \$230 per month.			

VI. RENEWABLE ENERGY PROGRAMS

Stimulus Bill Funding Avenue	Funding Level and Purpose	Recipient	Allocation of Funds	Areas of Potential Funding Opportunities
Loan Guarantees (Title IV) <i>* This funding is also referenced under Energy Technology Programs, see p. 16.</i>	\$6 billion for new category loan guarantees for “shovel ready” renewable electricity and transmission projects. Authorized under Title XVII of EPAct '05, as amended by ARRA. \$6 billion appropriation is expected to guarantee approximately \$60 billion of debt.	Awarded to project sponsors who submit an application to DOE. Projects must start construction by September 30, 2011.	Eligible projects include renewable energy systems, advanced fossil energy technology (including coal gasification), hydrogen fuel cell technology, advanced nuclear energy facilities, carbon capture and storage, efficiency end-use energy technologies, production facilities for fuel efficient vehicles, pollution control equipment, leading-edge biofuel technologies, and oil refineries.	<ul style="list-style-type: none"> ▪ Renewables ▪ Biofuel ▪ Coal/CCS ▪ Nuclear ▪ Transmission ▪ Smart Grid ▪ Energy Efficiency ▪ Utilities
Renewable Energy Production Tax Credit (Div. B, Title I, Subtitle B, Part I, Sec. 1101)	Extends the production tax credit (PTC) for wind facilities by three years through 2012, and for solar, biomass, geothermal, landfill gas, trash combustion, hydropower, and marine and hydrokinetic through 2013.	Renewable energy producers such as biomass, wind, solar and geothermal, hydropower, and marine and hydrokinetic facilities.		<ul style="list-style-type: none"> ▪ Renewables ▪ Biomass ▪ Wind ▪ Solar ▪ Geothermal ▪ Hydro ▪ Clean Technology
Renewable Energy Investment Tax Credit/Grant (Div. B, Title I, Subtitle B, Part I, Sec. 1102)	New projects eligible for the PTC may opt instead for a 30% investment tax credit. Projects may also elect to receive the benefit of the ITC in the form of a grant, rather than a tax credit.	Developers of wind, geothermal and biomass technologies.		<ul style="list-style-type: none"> ▪ Renewables ▪ Wind ▪ Geothermal ▪ Biomass ▪ Clean Technology

Stimulus Bill Funding Avenue	Funding Level and Purpose	Recipient	Allocation of Funds	Areas of Potential Funding Opportunities
<p>Existing Homes Tax Credit</p> <p>(Div. B, Title I, Subtitle B, Part II, Sec. 1121)</p>	<p>Existing federal law provides an individual tax credit of 10% of expenses for certain energy-efficient improvements to existing homes.</p> <p>Previously, the tax credit offered specific, capped amounts for qualified property. New provisions raise the total allowed credit to 30% for 2009 and 2010, and technology-specific caps for qualified property are replaced with a \$1,500 total cap on the credit over two years.</p>			<ul style="list-style-type: none"> ▪ Energy Efficiency ▪ 3rd Party Providers ▪ Utilities
<p>Investment Tax Credit</p> <p>(Div. B, Title I, Subtitle B, Part I, Sec. 1103)</p>	<p>Removes the \$2,000 cap on the 30% credit for small solar thermal and geothermal property, as well as the \$4,000 cap on small wind property.</p>	<p>Residential renewable energy systems.</p>		<ul style="list-style-type: none"> ▪ Renewables ▪ Solar ▪ Geothermal ▪ Utilities
<p>Manufacturing ITC</p> <p>(Div. B, Title I, Subtitle D, Part VII, Sec. 1302)</p>	<p>Establishes a 30% investment tax credit for qualifying advanced energy projects which re-equip, expand or establish a manufacturing facility for the production of property used to produce, refine, store or transport renewable energy or other advanced energy property designed to reduce greenhouse gas emissions. \$2.3 billion limitation on the total amount of credits that can be allocated under this program. Applicants must be certified to receive the credit.</p>	<p>Credits apply to project creating or retooling manufacturing facilities to make components used to generate renewable energy, storage systems for use in electric or hybrid electric cars, power grid components supporting addition of renewable sources, and equipment for carbon capture and storage.</p>		<ul style="list-style-type: none"> ▪ Coal/CCS ▪ Renewables ▪ Transmission

Stimulus Bill Funding Avenue	Funding Level and Purpose	Recipient	Allocation of Funds	Areas of Potential Funding Opportunities
<p>Clean Renewable Energy Bonds (CREB)</p> <p>(Div. B, Title I, Subtitle B, Part II, Sec. 1111)</p>	<p>Provides \$1.6 billion in additional authorization for clean renewable energy bonds.</p> <p>CREBs are used to finance facilities that generate electricity from clean and renewable sources developed by state and municipal government entities and cooperative electric companies.</p>	<p>Applies to bonds in which 100% of project proceeds are used for capital expenditures incurred by governmental bodies, public power providers, or cooperative electric companies for one or more qualified renewable energy facilities.</p> <p>Provides bonds to finance wind, biomass, geothermal and hydropower.</p>	<p>Allocations are as follows:</p> <ul style="list-style-type: none"> • No more than 1/3 to qualified projects of public power providers; • No more than 1/3 to qualified projects of state/local/tribal governments; and • No more than 1/3 to qualified projects of cooperative electric companies. 	<ul style="list-style-type: none"> ▪ Renewables ▪ Indian Tribes ▪ Wind ▪ Biomass ▪ Geothermal ▪ Hydro ▪ States/Local Governments ▪ Utilities
<p>Advanced Energy Investment Credit</p> <p>(Div. B, Title I, Part VII, Subtitle D, Sec. 1302)</p>	<p>Establishes a new 30% investment tax credit for the manufacture of “advanced energy property,” including property for the production of renewable energy, energy storage, energy conservation, efficient transmission and distribution of technology, and carbon capture and sequestration. Up to \$2.3 billion in credits may be allocated. Applicants must be certified to receive the credit.</p>	<p>Energy equipment and vehicle manufacturers</p>		<ul style="list-style-type: none"> ▪ Renewables ▪ Coal/CCS ▪ Transmission ▪ Wind ▪ Biomass ▪ Geothermal ▪ Solar ▪ Hydro
<p>Changes to CCS Tax Incentives</p> <p>(Div. B, Title I, Subtitle B, Part IV, Sec. 1131)</p>	<p>The \$10/ton credit for sequestration of CO₂ will be available for Enhanced Oil Recovery (EOR) projects that dispose of the CO₂ in “secure geologic storage” (to be defined by EPA, Interior & DOE).</p> <p>Additional language was added to ensure that taxpayers claiming the \$20/ton credit for storage in “secure geologic reservoirs” cannot also claim the \$10/ton credit for “secure geologic storage” through EOR projects.</p>			<ul style="list-style-type: none"> ▪ Coal/CCS

Stimulus Bill Funding Avenue	Funding Level and Purpose	Recipient	Allocation of Funds	Areas of Potential Funding Opportunities
<p>Grants in Lieu of Credits</p> <p>(Div. B, Title I, Subtitle G, Part V, Sec. 1603)</p>	<p>Allows businesses to apply for grants from Treasury in lieu of tax credits (which only have value if you owe taxes) for specified energy property placed in service during 2009 or 2010, including for combined heat and power systems, geothermal heat pumps, fuel cells, and microturbines.</p>	<p>Grants are available for renewable energy facilities, including systems using fuel cells, solar energy, small wind turbines, biomass, geothermal energy, hydropower, and marine and hydrokinetic facilities.</p>		<ul style="list-style-type: none"> ▪ Renewables ▪ Solar ▪ Wind ▪ Biomass ▪ Geothermal ▪ Hydro ▪ 3rd Party Providers
<p>Plug-in Electric Drive Motor Vehicle Credit</p> <p>(Div. B, Title I, Subtitle B, Part V, Sec. 1141-1142)</p>	<p>Modifies the plug-in electric drive motor vehicle credit by limiting the maximum credit to \$7,500 regardless of vehicle weight.</p> <p>Eliminates the credit for low speed plug-in vehicles and for plug-in vehicles weighing 14,000 pounds or more.</p> <p>Replaces 250,000 plug-in vehicle limitation with a 200,000 per manufacturer limitation.</p>		<p>Provides a 10% credit (up to \$2,500) for electric drive low-speed vehicles, motorcycles and three-wheeled vehicles.</p> <p>Provides a 10% credit (up to \$4,000) for plug-in vehicle conversions using a qualified battery module with a minimum capacity of 4 kWh.</p>	<ul style="list-style-type: none"> ▪ Renewables ▪ Transportation
<p>Refueling Property Credit</p> <p>(Div. B, Title I, Subtitle B, Part III, Sec. 1123)</p>	<p>Tax credit equal to 50% of the cost of installing qualified alternative fuel vehicle refueling property up to a maximum of \$50,000 (\$200,000 for hydrogen refueling property). Credit expires December 31, 2010.</p>	<p>Funds used for businesses that install alternative fuel pumps.</p>		<ul style="list-style-type: none"> ▪ Renewables ▪ Transportation

VII. ENERGY TECHNOLOGY PROGRAMS

Stimulus Bill Funding Avenue	Funding Level and Purpose	Recipient	Allocation of Funds	Areas of Potential Funding Opportunities
<p>Loan Guarantees (Title IV)</p> <p><i>*This funding is also referenced under Renewable Energy Programs, see p. 12.</i></p>	<p>\$6 billion for new category loan guarantees for “shovel ready” renewable electricity and transmission projects. Authorized under Title XVII of EPAct '05, as amended by American Recovery and Reinvestment Act (ARRA). \$6 billion appropriation is expected to guarantee approximately \$60 billion of debt.</p>	<p>Awarded to project sponsors who submit an application to DOE. Projects must start construction by September 30, 2011.</p>	<p>Eligible projects include renewable energy systems, advanced fossil energy technology (including coal gasification), hydrogen fuel cell technology, advanced nuclear energy facilities, carbon capture and storage, efficiency end-use energy technologies, production facilities for fuel efficient vehicles, pollution control equipment, leading-edge biofuel technologies, and oil refineries.</p>	<ul style="list-style-type: none"> ▪ Renewables ▪ Biofuel ▪ Coal/CCS ▪ Nuclear ▪ Transmission ▪ Smart Grid ▪ Clean Technology ▪ Utilities
<p>Carbon Capture and Sequestration (CCS) (Title IV)</p>	<p>Provides \$3.4 billion from DOE for “fossil energy research,” of which:</p> <ul style="list-style-type: none"> • \$1 billion for fossil energy research & development. • \$800 million for Clean Coal Power Initiative (CCPI) round 3 selections. • \$1.52 billion for competitive solicitation for industrial CCS demonstration projects. • \$50 million for a competitive solicitation for site characterization activities in geologic formations. • \$20 million for geologic sequestration training and research grants. • \$10 million for program direction funding. 	<p>Appears open to states, utilities and private sector companies (or partnerships) to support the development of carbon capture and storage technologies.</p>	<p>Competitive grant process administered by DOE/NETL.</p>	<ul style="list-style-type: none"> ▪ Coal/ CCS ▪ States/Local Governments ▪ Utilities ▪ Institutions ▪ Clean Technology

Stimulus Bill Funding Avenue	Funding Level and Purpose	Recipient	Allocation of Funds	Areas of Potential Funding Opportunities
<p>Research, Development, Demonstration, and Deployment</p> <p>(Title IV)</p> <p><i>* This funding is also referenced under Energy Efficiency Programs, see p. 3.</i></p>	<p>\$400 million for the Advanced Research Projects Agency-Energy. (ARPA-E) Authorized under Section 5012 of the America Competes Act.</p> <p>\$2.5 billion through DOE for support of energy efficiency and renewable energy research, development, demonstration and deployment activities.</p>	<p>Funds are awarded on a competitive basis to universities, companies, and national laboratories.</p>	<p>Funds are for the ARPA-E.</p> <p>Does not fund a specific program or appear to create a new program. Goal of accelerating development of technologies including batteries, water power, and solar energy.</p> <p>\$800 million used for biomass projects, \$400 million for geothermal projects and \$50 million for efforts to increase energy efficiency of information and communications technology.</p>	<ul style="list-style-type: none"> ▪ Energy Efficiency ▪ Renewables ▪ Biomass ▪ Geothermal ▪ Solar ▪ Hydro ▪ Smart Grid ▪ Utilities