

Summary of Funding Opportunities Resulting From the American Recovery and Reinvestment Act of 2009

The chart below summarizes some of the funding opportunities available under the Act. Those entities who may be eligible for such funding are encouraged to check back often on the web links provided in the chart.

Renewable Energy	Agency	Funding Type & Amount	Project Eligibility	Additional Information
<p>Energy generation and manufacturing components used for renewable energy systems, including biofuels, wind, geothermal and solar systems</p>	<p>Department of Energy (“DOE”)</p>	<p>Loan Guarantees</p> <p>\$6 billion, expected to support \$60 billion in lending activity</p> <p>Funding for biofuel projects is capped at \$500,000</p>	<ul style="list-style-type: none"> • Renewable energy systems that generate electricity or thermal energy; • Facilities that manufacture components related to renewable energy generation; and • Biofuel demonstration projects that the Department of Energy recognizes as having sufficient potential for commercial development and that will produce transportation fuels that reduce life-cycle greenhouse gas emissions. • Projects must commence construction no later than September 30, 2011. 	<p>Information will be made available via http://www.energy.gov/recovery.</p> <p>The loan guarantee program is a temporary addition to the Energy Policy Act of 2005 to defray the “credit subsidy costs,” making the loans more affordable. As a result, DOE may implement the Act’s program through the existing regulations at 10 CFR Part 609 or may promulgate new regulations within 60 days of the Act’s enactment.</p> <p>The DOE announced that it anticipates having the structure in place to accept and evaluate applications by early summer 2009.¹</p>

¹ “DOE to Expedite Disbursement of Funds Received Through Stimulus Act,” Feb. 25, 2009, available at http://www1.eere.energy.gov/solar/news_detail.html?news_id=12257.

Renewable energy projects that involve wind, solar, fuel cell, geothermal, microturbine and cogeneration	Department of the Treasury ("DT")	Grant of up to 30% of project costs in lieu of investment tax credit	<ul style="list-style-type: none"> • Wind, solar, and fuel cell project eligible up to 30% of project cost; • Geothermal, microturbines, and cogeneration projects eligible up to 10% of project costs; and • To qualify, projects must be put in service in 2009 or 2010 or, for some projects, begin construction before the end of 2010. 	Information will be made available via http://www.treasury.gov/recovery and via http://www.grants.gov .
Electricity Transmission	Agency	Funding Type & Amount	Project Eligibility	Additional Information
Upgrades to existing electricity transmission systems	DOE	Loan Guarantees	<ul style="list-style-type: none"> • Electric power transmission systems, including upgrading and reconductering projects. • Projects must commence construction no later than September 30, 2011. 	<p>Information will be made available via http://www.energy.gov/recovery.</p> <p>The loan guarantee program is a temporary addition to the Energy Policy Act of 2005 to defray the "credit subsidy costs," making the loans more affordable. As a result, DOE may implement the Act's program through the existing regulations at 10 CFR Part 609 or may promulgate new regulations.</p> <p>The DOE announced that it anticipates having the structure in place to accept and evaluate applications by early summer 2009.ⁱ</p>

<p>Development of Smart Grid and related components, including appliances responsive to the Smart Grid</p>	<p>DOE Office of Electricity Delivery and Energy Reliability</p>	<p>Competitive grants and funding for selected demonstration projects</p> <p>\$4.5 billion</p>	<p>Projects that implement the Smart Grid programs authorized by the Energy Independence and Security Act of 2007 (“EISA”), including:</p> <ul style="list-style-type: none"> • Smart Grid technology research; • Development and demonstration projects authorized in EISA § 1304; and • Federal matching fund for Smart Grid technologies in EISA § 1306. <p>In addition, projects in the following categories:</p> <ul style="list-style-type: none"> • Regional transmission planning; • Development of interoperability standards for Smart Grid devices; • Grid modernization; and • Related workforce training. <p>Eligible projects also include development of components such as sensors, monitors, and other equipment necessary to convert the manual grid to a digital system responsive to demand.</p>	<p>The existing Smart Grid program under the Energy Independence and Security Act of 2007 is amended to allow cost recovery for demonstration projects for other interested parties in addition to the entities that own the grid facilities.</p> <p>Updates from this office of the DOE are available at http://www.oe.energy.gov/news_room_and_events/1218.htm.</p> <p>See http://www.grants.gov for competitive grant announcements.</p> <p>See also http://www.netl.doe.gov/business/solicitations/index.html for specific information about current funding opportunities from DOE. Listings as of 3/4/09 include support for CO2 sequestration projects, transportation electrification grants, Smart Grid demonstration projects and automotive battery initiatives funding.</p> <p>DOE is required to issue its first solicitation for Smart Grid projects within 60 days of the enactment of the Act, and a listing is currently posted at the NETL site listed above.</p> <p>This allocation also includes \$80 million to fund a resource assessment of the current transmission grid, identification of future transmission needs, and analysis of any impediments to meeting future demand.</p>
--	--	---	---	---

Expanded borrowing power for the Western Area Power Administration (“WAPA”)	DT	Loans \$3.25 billion	<ul style="list-style-type: none"> Allows the WAPA to borrow funds for constructing, planning, and operating transmission facilities that have a terminus within the WAPA service area and facilitating transmission of power from renewable energy sources; and Permits other entities to participate in the financing, construction, and ownership of projects financed under this provision. 	For more information related to WAPA’s new borrowing ability and related projects, refer to http://www.wapa.gov .
Expanded borrowing power for the Bonneville Power Administration	DT	Loans \$3.25 billion	Funding to assist in the construction and replacement of the BPA’s transmission system.	The BPA has already announced a plan for expansion of the transmission system in the Pacific Northwest funded through this allocation. For more information, see http://www.bpa.gov/corporate/BPAnews/nreleases.cfm .
Energy Efficiency and Advanced Energy Technologies	Agency	Funding Type & Amount	Project Eligibility	Additional Information
Fossil Energy Research and Development Program	DOE	Grants \$3.4 billion	Project areas will include: <ul style="list-style-type: none"> Industrial carbon capture projects, research, and site characterization; Energy efficiency improvement projects; Clean Coal Power Initiative Round III funding; and Fossil energy research and development. 	Information will be made available via http://www.energy.gov/recovery and http://www.grants.gov and http://www.fbo.gov . A presolicitation notice regarding funding for projects to increase energy efficiency at telecommunications facilities was posted on February 26, 2009 at https://www.fbo.gov/index?s=opportunity&mode=form&id=ff567a0f2c93395c47233579c6112175&tab=core&cview=0 .

<p>Manufacture of advanced batteries and related components, including software and hybrid systems</p>	<p>DOE</p>	<p>Competitive Grants \$2 billion</p>	<ul style="list-style-type: none"> • Projects that develop, design, and produce advanced batteries and components. • Includes software designs, vehicle batteries, advanced lithium ion batteries, hybrid electrical systems, and components. 	<p>Information will be made available via http://www.energy.gov/recovery and http://www.grants.gov.</p> <p>In addition, DOE posted a solicitation for projects related to automotive battery manufacturing and transportation electrification at http://www.netl.doe.gov/business/solicitations/index.html. Future solicitation announcements will also be posted on that site.</p>
<p>Alternative fuel vehicles</p>	<p>DOE Energy Efficiency and Renewable Energy Program</p>	<p>Competitive Grants \$300 million</p>	<ul style="list-style-type: none"> • Pilot program to fund projects involving alternative fuel vehicles. 	<p>Information will be made available via http://www.energy.gov/recovery and http://www.grants.gov and http://www.netl.doe.gov/business/solicitations/index.html.</p>
<p>Energy Efficiency and Conservation Block Grants Program</p>	<p>States and local governments</p>	<p>Mix of competitive grants and allocations through the block grant formula for states and local governments \$3.2 billion</p>	<ul style="list-style-type: none"> • State and local government projects that implement energy efficiency and conservation measures to reduce fossil fuel emissions and total energy use; • Private sector entities that perform energy audits, install new technologies, and perform energy efficiency retrofits in state facilities may also be eligible for funding; and • Projects that increase energy efficiency in transportation, buildings, reduce energy use, or reduce fossil fuel emissions. 	<p>Monitor state-level information related to the block grant program for detailed application and eligibility information.</p> <p>Because these are additional funds for an existing program, the current application process is likely to be used.</p> <p>Information about the block grants is available at http://apps1.eere.energy.gov/wip/block_grants.cfm.</p> <p>In addition, interested entities should follow the instructions posted at the site above to become eligible to receive block grant funds if not already qualified.</p>

Energy efficiency improvements in low-income housing	States	Varies \$5 billion	<ul style="list-style-type: none"> • Low-income households for weatherization. • Utilities and other private entities eligible to install energy efficiency improvements in low-income housing. 	<p>Monitor state-level information for opportunities to secure funding under this program.</p> <p>Updated information may be available through http://www.energy.gov/recovery and http://www.grants.gov and http://apps1.eere.energy.gov/wip/block_grants.cfm.</p>
State Energy Plans	States	Grants and technical support \$3.1 billion	<ul style="list-style-type: none"> • State energy planning projects that will increase car pool use, mass transit, establish building insulation standards. 	<p>States that accept funds through this allocation must agree to upgrade building code energy efficiency requirements, among other things.</p> <p>Information about the state energy program is available at http://apps1.eere.energy.gov/state_energy_program/.</p>
Other Environmental	Agency	Funding Type & Amount	Project Eligibility	Additional Information
Brownfields Program	EPA	Competitive Grants \$100 million	Projects that evaluate and cleanup former commercial and industrial brownfield sites.	<p>Because this is additional funding for an existing program, EPA is likely to rely on existing processes for selecting grantees and disbursing the funds.</p> <p>Information will be made available via http://www.epa.gov/recovery and http://www.grants.gov.</p>

<p>Clean Water State Revolving Fund & Drinking Water State Revolving Funds</p>	<p>EPA ADEQ</p>	<p>Grants to states, low interest loans</p> <p>\$6 billion</p>	<ul style="list-style-type: none"> • Projects that address water quality infrastructure needs • Projects that address drinking water infrastructure needs • A portion of the funding is available for water and energy efficiency and environmentally innovative projects. 	<p>Proposals for projects in Arizona are due to the Water Infrastructure Finance Authority of Arizona by March 6, 2009.</p> <p>More information on the Arizona process is available at http://www.azdeq.gov/function/news/2009/download/wifa_022509.pdf.</p> <p>On March 2, 2009, EPA released guidance regarding its own implementation of the program, grant requirements, and disbursement of the funds. EPA's guidance document is available at http://www.epa.gov/water/eparecovery/docs/2009-03-02_Final_ARRA_SRF_Guidance.pdf.</p>
<p>National Clean Diesel Campaign and State Clean Diesel Grant Program</p>	<p>EPA</p> <p>\$300 million, including \$88 million for state programs</p>	<p>Grants and loans</p>	<p>Projects by regional, state and local governments, tribal agencies, or non-profit organizations that reduce diesel emissions.</p>	<p>States that intend to participate in the State Clean Diesel Grant Program must submit the Notice of Intent to EPA by March 6, 2009. It is expected that the first grants under this program will be awarded as early as April 17, 2009.</p> <p>For the national program, EPA anticipates a 40-day application period for most of the competitive grants.</p> <p>For announcements and timing related to this program, frequently refer to http://epa.gov/otaq/eparecovery/ for program updates and announcements.</p> <p>For a complete schedule and more information regarding the state program, see http://epa.gov/otaq/eparecovery/progstate.htm.</p>

Energy-Related Tax Incentives	Agency	Funding Type & Amount	Project Eligibility	Additional Information
Clean Renewable Energy Bonds	N/A	Bonds \$1.6 billion	Qualifying projects by: <ul style="list-style-type: none"> • State/local/tribal governments • Public power providers • Electric cooperatives The projects must generate electricity from renewable resources in order to qualify.	The U.S. Department of the Treasury provides additional details regarding the tax-related incentives at http://www.treas.gov/recovery/ .
Qualified Energy Conservation Bonds	N/A	Bonds \$2.4 billion	Projects with qualified conservation purposes, including: <ul style="list-style-type: none"> • Reduced energy consumption from public buildings; • Independent green community programs; • Renewable energy development in rural communities; • Research into biofuels, carbon sequestration, and advanced batteries; and • Mass transit. 	The U.S. Department of the Treasury provides additional details regarding the tax-related incentives at http://www.treas.gov/recovery/ .

Advanced Energy Investment Credit	DT, DOE	<p>Tax credit of up to 30% of the amount of investment in qualifying projects</p> <p>Up to \$2.3 billion</p>	<ul style="list-style-type: none"> • Manufacturers of advanced energy property; • Projects that re-equip or expand existing facilities or establish new facilities to produce: • Property designed to generate renewable energy; • Advanced energy storage systems; • Smart grid components and grids that can interface with intermittent renewable energy sources; and • Carbon capture and sequestration systems. • Projects must be certified by the Secretary of Treasury and Secretary of Energy through a competitive bid in order to qualify. 	<p>The Secretary of Treasury is required to establish a certification program within 180 days of Act's enactment.</p> <p>“Advanced energy property” includes technology for the production of renewable energy, energy storage, energy conservation, efficient transmission, and distribution of electricity, and carbon capture and sequestration.</p> <p>The U.S. Department of the Treasury provides additional details regarding the tax-related incentives at http://www.treas.gov/recovery/.</p>
Extension of production tax credit	N/A	<p>Production tax credit varies in amount from year to year. In 2008, it was 2.1 cents per kilowatt hour.</p>	<p>Extends the credit for wind production through 12/31/12 and the credit for production through biomass, geothermal, hydropower, landfill gas, waste-to-energy, and marine facilities through 12/31/13.</p>	<p>Projects that are in the pre-production stage may qualify for an investment tax credit, or grant in lieu thereof, rather than the production tax credit.</p> <p>The U.S. Department of the Treasury provides additional details regarding the tax-related incentives at http://www.treas.gov/recovery/.</p>