

## **ENERGY**

### **ADVANCE RESEARCH PROJECTS GRANTS - ARPA-E**

**Description:** Provides funding to the Department of Energy's Advanced Research Projects Agency (ARPA-E) to support high-risk and high-payoff research and to accelerate innovation for traditional and alternative energy sources.

**Funding Mechanism:** Administered by the U.S. Department of Energy through a competitive grant program. Detailed program information and application materials are not yet available.

**Eligible Entities:** Businesses Individuals Non-Profit Organizations State Government  
Universities

**Responsibility for Implementation:** Federal

**Federal Agency:** Energy, Dept. of

**Federal Web Site:** <http://www.energy.gov/sciencetech/index.htm>

### **ADVANCED BATTERY MANUFACTURING LOANS AND GRANTS**

**Description:** Provides funding for the manufacture of advanced batteries and components, including advanced lithium ion batteries, hybrid electric systems, component manufacturers and software designers.

**Funding Mechanism:** The U.S. Department of Energy will make competitive loans and grants. Detailed program information and application materials are not yet available.

**Eligible Entities:** Businesses Individuals

**Responsibility for Implementation:** Federal

**Federal Agency:** Energy, Dept. of

**Federal Web Site:** <http://www.doe.gov>

### **ALTERNATIVE-FUELED VEHICLES PILOT PROGRAM**

**Description:** Provides funding through the U.S. Department of Energy Clean Cities program to encourage the use of plug-in electric drive vehicles or other emerging electric vehicle technologies. Grants may be used for the acquisition of alternative-fuel vehicles, fuel-cell vehicles, or hybrid vehicles including buses for public transportation and ground transportation at airports.

**Funding Mechanism:** U.S. Department of Energy may make competitive grants for up to 30 geographically dispersed pilot projects. Detailed program information and application materials are not yet available.

**Eligible Entities:** Businesses Individuals Local Government Other State Government

**Responsibility for Implementation:** Federal

**Federal Agency:** Energy, Dept. of

**Federal Web Site:** <http://www1.eere.energy.gov/cleancities/>

## **ASSISTED HOUSING STABILITY PROGRAM - Energy Efficiency and Green Retrofits**

**Description:** Provides funding for grants and loans to assist owners of properties receiving project-based assistance under s. 202 of the Housing Act of 1959, s. 811 of the Cranston-Gonzalez national Affordable Housing Act, or s. 8 of the United States Housing Act of 1937 for energy efficiency retrofits and green investments.

**Funding Mechanism:** HUD administers through competitive grants or loans to eligible property owners.

**Eligible Entities:** Businesses Individuals

**Responsibility for Implementation:** Federal

**Federal Agency:** Housing and Urban Development, Dept. of

**Federal Web Site:** <http://www.hud.gov/offices/hsg/omhar/>

## **CLEAN RENEWABLE ENERGY BONDS**

**Description:** Authorizes additional clean renewable energy bonds to finance facilities that generate electricity from the following resources: wind, closed-loop biomass, open-loop biomass, geothermal, small irrigation, hydropower, landfill gas, marine renewable and trash combustion facilities.

**Funding Mechanism:** Authorizes an additional \$1.6 billion in bonding, of which: 1/3 will be available for qualifying projects of state, local, and tribal governments, 1/3 for qualifying projects of public power providers and 1/3 for qualifying projects of electric cooperatives.

**Eligible Entities:** Businesses Individuals Local Government Other State Government Tribal Government

**Responsibility for Implementation:** Federal

**Federal Agency:** Internal Revenue Service

**Federal Web Site:** <http://www.irs.gov>

## **ELECTRICITY DELIVERY AND ENERGY RELIABILITY - Smart Grid Infrastructure Grants**

**Description:** Provides funding to modernize the nation's electricity transmission and distribution systems to maintain reliability and infrastructure protection. Smart grid refers to a distribution system that allows for communication between a customer's meter and the utility, including communication with thermostats, appliances, and other devices. It also includes operation and efficiency measures. This program is intended to encourage utility investment in smart grid technologies.

**Funding Mechanism:** Matching grant program administered by the U.S. Department of Energy. Grants available for up to 50 percent of the cost of qualifying investments. Detailed program information and application materials are not yet available.

**Eligible Entities:** Businesses Individuals Local Government Other State Government Tribal Government

**Responsibility for Implementation:** Federal

**Federal Agency:** Energy, Dept. of

**Federal Web Site:** <http://www.oe.energy.gov/smartgrid.htm>

## **ELECTRICITY DELIVERY AND ENERGY RELIABILITY - Electricity and Energy Worker Training**

**Description:** Provides funds to support worker training related to electricity delivery and energy reliability activities that modernize the electric grid; enhance security and reliability of energy infrastructure; conduct energy storage research, development, demonstration, and deployment; and facilitate recovery from disruptions to the energy supply, and for implementation of programs authorized under title XIII of the Energy Independence and Security Act of 2007.

**Funding Mechanism:** Not specified in the law. Note that this appears in the law as a Department of Energy program, so its connection with U.S. DOL or state workforce training programs is not yet clear.

**Eligible Entities:** Businesses Individuals Non-Profit Organizations Other State Government  
Technical Colleges

**Responsibility for Implementation:** Federal

**Federal Agency:** Energy, Dept. of

**Federal Web Site:** <http://www.oe.energy.gov>

## **ENERGY EFFICIENCY AND CONSERVATION BLOCK GRANTS - Large Cities and Counties**

**Description:** Provides funding to local governments to reduce energy use and reduce emissions. Allowable uses include strategic planning, consultant services, energy audits, implementing building codes and inspection services, energy efficiency retrofits, and installing onsite renewable energy technologies.

**Funding Mechanism:** Certain large cities and counties receive direct funding allocation from the Department of Energy. Detailed program information and allocation formula not yet available.

**Eligible Entities:** Local Government

**Responsibility for Implementation:** Federal Local

**Federal Agency:** Energy, Dept. of

**Federal Web Site:** <http://www.eere.energy.gov/>

## **ENERGY EFFICIENCY AND CONSERVATION BLOCK GRANTS - State Program**

**Description:** Provides funding to state energy offices to address state energy priorities and to adopt emerging renewable energy and energy efficiency technologies. States can use the funding for state programs, but must give priority to projects that include expanding existing energy efficiency and renewable energy programs.

**Funding Mechanism:** Department of Energy allocates a portion of the available funding to state energy programs based on an existing formula. Detailed program information and application materials are not yet available.

**Eligible Entities:** State Government

**Responsibility for Implementation:** State

**Federal Agency:** Energy, Dept. of

**Federal Web Site:** <http://www.eere.energy.gov/>

## **ENERGY EFFICIENCY AND CONSERVATION BLOCK GRANTS - Small Cities and Counties Program**

**Description:** Provides funding to local governments to reduce energy use and emissions. Allowable uses include strategic planning, consultant services, energy audits, implementing building codes and inspection services, energy efficiency retrofits and installing onsite renewable energy technologies.

**Funding Mechanism:** Funding for smaller cities and counties is allocated to the state for distribution through competitive process to smaller local government entities. Detailed program information and application materials are not yet available.

**Eligible Entities:** Local Government

**Responsibility for Implementation:** State

**Federal Agency:** Energy, Dept. of

**Federal Web Site:** <http://www.eere.energy.gov/>

## **ENERGY EFFICIENCY AND CONSERVATION BLOCK GRANTS - Competitive Grant Program**

**Description:** Provides funding to local governments to reduce energy use and reduce emissions. Allowable uses include strategic planning, consultant services, energy audits, implementing building codes and inspection services, energy efficiency retrofits, and installing onsite renewable energy technologies.

**Funding Mechanism:** The federal Department of Energy distributes funding for this program through a competitive grant process. Detailed program information and application materials are not yet available.

**Eligible Entities:** Local Government Tribal Government

**Responsibility for Implementation:** Federal

**Federal Agency:** Energy, Dept. of

**Federal Web Site:** <http://www.eere.energy.gov/>

## ENERGY EFFICIENCY AND CONSERVATION BLOCK GRANTS - Tribal Grants

**Description:** Provides funding to tribal governments to reduce energy use and emissions. Allowable uses include strategic planning, consultant services, energy audits, implementing building codes and inspection services, energy efficiency retrofits, and installing onsite renewable energy technologies.

**Funding Mechanism:** The federal Department of Energy allocates funding for tribal governments through a competitive grant process. Detailed program information and application materials are not yet available.

**Eligible Entities:** Tribal Government

**Responsibility for Implementation:** Federal

**Federal Agency:** Energy, Dept. of

**Federal Web Site:** <http://www.eere.energy.gov/>

## ENERGY EFFICIENCY AND RENEWABLE ENERGY RESEARCH

**Description:** Provides funding for research, development, and demonstrations of renewable energy technologies (including biomass, geothermal, water power, and solar energy) and energy efficiency demonstrations for industrial and commercial practices (such as combined heat and power projects). Grants may also be used to accelerate research and development for advanced batteries necessary for the conversion to electric vehicles and the storage of energy to increase the effectiveness of renewable energy projects. Specific funding is set aside for projects related to biomass and geothermal activities.

**Funding Mechanism:** Administered by the U.S. Department of Energy through competitive grants. Detailed program information and application materials are not yet available.

**Eligible Entities:** Businesses Individuals Local Government Non-Profit Organizations Other State Government Technical Colleges Tribal Government Universities

**Responsibility for Implementation:** Federal

**Federal Agency:** Energy, Dept. of

**Federal Web Site:** <http://www.eere.energy.gov/>

## ENERGY INVESTMENT CREDIT (SEC 48)

**Description:** Eliminates the \$4,000 cap for small wind energy property expenses for property placed in service by 2017.

**Funding Mechanism:** Federal tax credit.

**Eligible Entities:** Businesses

**Responsibility for Implementation:** Federal

**Federal Agency:** Internal Revenue Service

**Federal Web Site:** <http://www.irs.gov>

## **ENERGY STAR APPLIANCE REBATES**

**Description:** Provides funding for rebates to residential consumers for the purchase of residential Energy Star products to replace used appliances with more efficient models. This program would add federal funds to increase the effectiveness of existing state programs and to encourage the remaining states to adopt similar programs. This will speed the rollout of appliances that will be able to take advantage of smart meters and spur consumer purchases of smart and energy-efficient appliances.

**Funding Mechanism:** State submits application to receive federal funds. Detailed program information and application materials are not yet available.

**Eligible Entities:** Individuals

**Responsibility for Implementation:** State

**Federal Agency:** Energy, Dept. of

## **FOSSIL ENERGY RESEARCH AND DEVELOPMENT**

**Description:** Provides additional funding to promote the development and use of environmentally and economically superior technologies for supply, conversion, delivery and utilization of fossil fuels. Includes funding for the Clean Coal Power Initiative Round III, industrial carbon capture and energy efficiency projects, site characterization of geologic formations, geologic sequestration training and research.

**Funding Mechanism:** Program administered by the U.S. Department of Energy through competitive grants. Funding announcement and guidelines not yet available.

**Eligible Entities:** Universities

**Responsibility for Implementation:** Federal

**Federal Agency:** Energy, Dept. of

## **HOME WEATHERIZATION ASSISTANCE PROGRAM**

**Description:** Provides funding to help low-income families reduce their energy costs by weatherizing their homes to make our country more energy efficient.

**Funding Mechanism:** State contracts with providers to carry out weatherization activities for eligible homes.

**Eligible Entities:** Individuals Tribal Government

**Responsibility for Implementation:** State

**Federal Agency:** Energy, Dept. of

## **INNOVATIVE TECHNOLOGY LOAN GUARANTEE PROGRAM**

**Description:** Provides loan guarantees for proven renewable energy and transmission technologies, including nuclear, clean coal and other renewables. Program helps project proponents obtain capital for the construction of new renewable generation facilities and to make improvements to the nation's transmission system.

**Funding Mechanism:** Administered by the Department of Energy through a competitive process. Detailed program information and application materials are not yet available.

**Eligible Entities:** Businesses Individuals Other

**Responsibility for Implementation:** Federal

**Federal Agency:** Energy, Dept. of

**Federal Web Site:** <http://www.lgprogram.energy.gov/>

## **INVESTMENT CREDIT (SEC 45) ELECTION**

**Description:** In lieu of taking a credit for the production for electricity from alternative sources of energy at qualified facilities in 2009 and 2010, taxpayers may treat the facilities as energy property eligible for a 30% investment credit under sec. 48.

**Funding Mechanism:** Federal tax credit.

**Eligible Entities:** Businesses

**Responsibility for Implementation:** Federal

**Federal Agency:** Internal Revenue Service

**Federal Web Site:** <http://www.irs.gov>

## **MANUFACTURING INVESTMENT TAX CREDIT - Advanced Energy Facilities**

**Description:** Allows a 30% credit for investments used to produce electricity from qualified energy resources (wind, biomass, geothermal, solar hydro), or for investments used to manufacture fuel cells, energy storage for electric/hybrid vehicles, electric grids for renewable energy or equipment for carbon capture

**Funding Mechanism:** Federal tax credit.

**Eligible Entities:** Businesses

**Responsibility for Implementation:** Federal

**Federal Agency:** Internal Revenue Service

**Federal Web Site:** <http://www.irs.gov>

## **NATIONAL SCIENCE FOUNDATION - Energy Efficiency Demonstration and Research**

**Description:** Provides funding for research related to improvements in energy efficiency, transmission, regulation and storage of electricity for use on military installations, including research on renewables.

**Funding Mechanism:** NSF will provide competitive grants for eligible projects. Detailed program information and application materials are not yet available.

**Eligible Entities:** Businesses Individuals State Government Universities

**Responsibility for Implementation:** Federal

**Federal Agency:** National Science Foundation

**Federal Web Site:** <http://www.nsf.gov/funding/>

## **NATIONAL SCIENCE FOUNDATION - Research and Related Activities**

**Description:** Provides funding for fundamental science and engineering research that advances discovery and spurs innovation.

**Funding Mechanism:** NSF will distribute funding through competitive grants. Within this amount, \$300,000,000 shall be available solely for the major research instrumentation program and \$200,000,000 shall be available for activities authorized by title II of Public Law 100-570 for academic facilities modernization.

**Eligible Entities:** Businesses Individuals Other State Government Universities

**Responsibility for Implementation:** Federal

**Federal Agency:** National Science Foundation

**Federal Web Site:** <http://www.nsf.gov/funding/>

## **NATIONAL SCIENCE FOUNDATION - Major Research Equipment and Facilities**

**Description:** Provides funding for the construction and development of major research facilities.

**Funding Mechanism:** Funding will be used for previously approved investments that are nearing completion of design review to accelerate the construction and development of facilities.

**Eligible Entities:** Other

**Responsibility for Implementation:** Federal

**Federal Agency:** National Science Foundation

**Federal Web Site:** <http://www.nsf.gov/funding/>



## **NATIVE AMERICAN HOUSING BLOCK GRANT**

**Description:** This funding will rehabilitate and improve energy efficiency in housing units maintained by Native American housing programs.

**Funding Mechanism:** Half of the funding will be distributed by formula and half will be competitively awarded to projects that can be started quickly.

**Eligible Entities:** Other Tribal Government  
**Responsibility for Implementation:** Federal

**Federal Agency:** Housing and Urban Development, Dept. of  
**Federal Web Site:** <http://www.hud.gov/progdesc/ihbg1208.cfm>

## **PLUG-IN ELECTRIC VEHICLE CREDIT**

**Description:** Allows a \$2,500 tax credit for the first 200,000 plug-in electric vehicles. The credit is reduced after the 200,000th vehicle. Low speed vehicles qualify for new credit. Credit to offset alternative minimum tax for tax years beginning 2010.

**Funding Mechanism:** Federal tax credit.

**Eligible Entities:** Businesses Individuals  
**Responsibility for Implementation:** Federal

**Federal Agency:** Internal Revenue Service  
**Federal Web Site:** <http://www.irs.gov>

## **QUALIFIED ENERGY CONSERVATION BONDS**

**Description:** Authorizes an additional \$2.4 billion issuance for qualified energy conservation bonds to finance state, municipal and tribal government programs and initiatives designed to reduce greenhouse gas emissions. Funds raised from the sale of qualified energy conservation bonds may be used for programs in which utilities provide ratepayers with energy-efficient property and to implement energy efficiency and green community programs.

**Funding Mechanism:** Qualified energy conservation bonds may be issued to make loans and grants for capital expenditures related to eligible program activities.

**Eligible Entities:** Local Government State Government Tribal Government  
**Responsibility for Implementation:** Federal

**Federal Agency:** Internal Revenue Service  
**Federal Web Site:** <http://www.irs.gov>

## **RENEWABLE ELECTRICITY PRODUCTION CREDIT (SEC 45)**

**Description:** Extends tax credit to allow claims for eligible property placed in service between 2010 to 2013. Internal Revenue Code SEC 45.

**Funding Mechanism:** Federal tax credit.

**Eligible Entities:** Businesses

**Responsibility for Implementation:** Federal

**Federal Agency:** Internal Revenue Service

**Federal Web Site:** <http://www.irs.gov>

## **RESIDENTIAL ENERGY EFFICIENCY PROPERTY TAX CREDIT**

**Description:** Removes maximum credit cap for installation of residential wind, geothermal, solar thermal property (solar hot water property, geothermal heat pumps, wind energy property). Internal Revenue Code (SEC 25D).

**Funding Mechanism:** Federal tax credit.

**Eligible Entities:** Individuals

**Responsibility for Implementation:** Federal

**Federal Agency:** Internal Revenue Service

## **RESIDENTIAL ENERGY PROPERTY CREDIT**

**Description:** Increases the credit from 10% to 30% for nonbusiness energy property (up to a \$1,500 per residence cap). Applies to 2009 and 2010 tax years. Internal Revenue Code (SEC 25C)

**Funding Mechanism:** Federal tax credit.

**Eligible Entities:** Individuals

**Responsibility for Implementation:** Federal

**Federal Agency:** Internal Revenue Service

**Federal Web Site:** <http://www.irs.gov>

## **STATE ENERGY PROGRAM**

**Description:** Provides funding to state energy offices to address energy priorities and to adopt emerging renewable energy and energy efficiency technology.

**Funding Mechanism:** Funds are allocated to state energy offices based on federal formula.

**Eligible Entities:** State Government

**Responsibility for Implementation:** State

**Federal Agency:** Energy, Dept. of

## TRANSPORTATION ELECTRIFICATION

**Description:** Provides funding to state, local governments, and metropolitan transportation authorities for qualified electric transportation projects that reduce emissions. Eligible projects include shipside electrification of vehicles, truck stop electrification, airport ground support equipment and cargo handling equipment.

**Funding Mechanism:** Department of Energy will make funding available through competitive grants.

**Eligible Entities:** Local Government Other State Government

**Responsibility for Implementation:** Federal

**Federal Agency:** Energy, Dept. of

**Federal Web Site:** <http://www.eere.energy.gov/>

## TRANSPORTATION FRINGE BENEFITS

**Description:** Increases income exclusion from \$120/month to \$230/month for employer-provided transit pass and vanpooling benefits for 2009 and 2010.

**Funding Mechanism:** Lower federal tax liability.

**Eligible Entities:** Individuals

**Responsibility for Implementation:** Federal

**Federal Agency:** Internal Revenue Service

**Federal Web Site:** <http://www.irs.gov>

## WORKFORCE TRAINING GRANTS FOR HIGH GROWTH AND EMERGING INDUSTRIES - Energy Efficiency and Renewable Energy

**Description:** Provides funding for worker training and placement in high growth and emerging industries. A portion of available funding is for research, labor exchange and job training projects that prepare individuals for careers in energy efficiency and renewable energy under the WIA Energy Efficiency and Renewable Energy Worker Training Program [Section 171(e)(1)(B) of the Workforce Investment Act], as described in the Green Jobs Act of 2007.

**Funding Mechanism:** Competitive grants, process not yet specified.

**Eligible Entities:** Businesses Individuals Other State Government Technical Colleges

**Responsibility for Implementation:** Federal

**Federal Agency:** Labor, Dept. of

**Federal Web Site:** <http://www.doleta.gov/grants/>