

Master Timeline by Date

This document identifies milestone activities in the Energy Independence and Security Act of 2007 (organized by date). It includes activities in all titles of the bill, including those outside the interests of the electric industry. A section number is provided at the end of each entry for referencing back to the legislation and the legend below provides a reference for identifying which section numbers fall within each title.

Legend:

Title I: Energy Security through Improved Vehicle Fuel Economy §101-142

Title II: Energy Security through Increased Production of Biofuels §201-251

Title III: Energy Savings through Improved Standards for Appliance and Lighting §301-325

Title IV: Energy Savings in Buildings and Industry §401-495

Title V: Energy Savings in Government and Public Institutions §501-548

Title VI: Accelerated Research and Development §601-656

Title VII: Carbon Capture and Sequestration §701-714

Title VIII: Improved Management of Energy Policy §801-815

Title IX: International Energy Programs §901-935

Title X: Green Jobs §1001-1002

Title XI: Energy Transportation and Infrastructure §1101-1133

Title XII: Small Business Energy Programs §1201-1208

Title XIII: Smart Grid §1301-1309

As soon as practicable after enactment:

- **DOT—Fuel Economy Standard Requirement:** Secretary shall prescribe annual fuel economy standards based on vehicle attributes whereby each standard is to be expressed in the form of a mathematical function. Regulations will be issued for at least one and not more than five model years. §102
- **DOT—Compliance with National Tire Fuel Efficiency Information Program:** Failing to comply with the national tire fuel efficiency information will result in civil penalty of not more than \$50,000 for each violation §102
- **DOT--National Academy of Sciences Automobile Fuel Economy Study:** The National Academy of Sciences will develop reports evaluating vehicle fuel economy standards including assessment of technologies and costs associated with vehicle manufacturing in meeting new fuel standards. Academy to submit report to Secretary and Congress not later than 5 years after agreement with Secretary and updated at 5 year intervals through 2025. §107
- **DOT-- National Academy of Sciences Medium-Duty and Heavy-Duty Truck Fuel Economy Study:** The National Academy of Sciences will develop report evaluating fuel economy standards including assessment of technologies and costs associated with truck manufacturing in meeting new fuel standards. Academy to submit report to Secretary and Congress within one year of agreement with Secretary. §108
- **DOE—Electric Vehicle Credit Allocation Program:** Secretary shall allocate credit for the acquisition of specific types of electric drive vehicles and investment in qualified alternative fuel infrastructure or non-road equipment. §133
- **DOE Prohibition on Restriction of Installation of Renewable Fuel Pumps:** No franchise-related document entered into or renewed on or after the date of enactment of this section shall contain any provision allowing a franchisor to restrict the franchisee or any affiliate of the franchisee from installing a renewable fuel pump or tank, converting an existing tank or pump for renewable fuel use, advertising the sale of any renewable fuel, selling renewable fuel, purchasing renewable fuel from sources other than the franchisor, listing renewable fuel availability or prices, or allowing for payment of renewable fuel with a credit card. §241
- **Architect of the Capitol - Energy and Cost Savings in Nonbuilding Applications Study & Report:** The Secretary and the Secretary of Defense shall jointly conduct, and submit a report to Congress and the President, of a study of the potential for the use of energy savings performance contracts to reduce energy consumption and provide energy and cost savings in nonbuilding applications, and such recommendations as the Secretary and the Secretary of Defense determine to be appropriate. §518
- **DOE Lightweight Materials Research and Development Program:** The Secretary shall, as soon as practicable after the date of enactment, establish a RD&D program to determine ways in which the weight of motor vehicles could be reduced to improve fuel efficiency without compromising passenger safety. §651
- **DOT—Transportation System’s Impact on Climate Change and Fuel Efficiency Study:** The Office of Climate Change and Environment shall conduct a study to examine the impact of the

nation's transportation system on climate change and the fuel efficiency savings and clean air impacts of major transportation projects. Study will also identify solutions to reduce air pollution and transportation-related end use as well as examine the potential fuel savings from using intelligent transportation systems. §1101

- **DOT—Advanced Technology Locomotive Grant Pilot Program:** Transportation Secretary shall establish a pilot program for making grants to railroad carriers for assistance in purchasing hybrid or other energy-efficient locomotives and to demonstrate the extent to which such locomotives increase fuel economy, reduce emissions, and lower operating costs. §1111

30 days after enactment (Jan. 19, 2008):

- **DOE Engine Durability and Performance Associated with the Use of Biodiesel Study Initiation:** The Secretary, in consultation with the Administrator of the Environmental Protection Agency, shall initiate a study on the effects of the use of biodiesel on the performance and durability of engines and engine systems. The report shall be submitted not later than 24 months after enactment. §226
- **Architect of the Capitol - Operation of Capitol Power Plant, Promoting Maximum Efficiency of Steam Boilers & Chiller Plant:** The Architect of the Capitol shall take such steps as may be necessary to operate the steam boilers and chiller plant at the Capitol Power Plant in the most energy efficient manner possible to minimize carbon emissions and operating costs, including adjustments to the operations of such to take into account variations in demand, including seasonality, for the use of the systems. §504

60 days after enactment (Feb. 18, 2008):

- **GSA Office of Federal High-Performance Green Buildings Creation:** The Administrator shall establish within GSA an Office of Federal High-Performance Green Buildings, and appoint an individual to serve as Federal Director. §436
- **GSA Certification System Identification:** The Federal Director of High-Performance Green Buildings shall identify and shall provide to the Secretary of Energy, a certification system that the Director determines to be the most likely to encourage a comprehensive and environmentally-sound approach to certification of green buildings. The system shall be based on a study completed every 5 years by the Federal Director to compare and evaluate standards. §436
- **President National Energy Security Strategy Report:** On the date on which the President submits the budget for the following fiscal year to Congress (usually early February), the President shall also submit to Congress a comprehensive report on the national energy security strategy of the U.S. §933
- **National Institute of Standards and Technology Development Smart Grid Interoperability Framework:** Within 60 days of bill enactment, the Director of the National Institute of Standards and Technology shall begin work on development of a framework that includes protocols and model standards for information management to achieve interoperability of smart grid devices and systems. §1305

90 days after enactment (March 18, 2008):

- **DOE Algae as a Feedstock for the Production of Biofuels Study & Report:** The Secretary shall submit a report to the Congress on the progress of the research and development that is being conducted on the use of algae as a feedstock for the production of biofuels. §228
- **DOE Refueling Infrastructure Corridors Pilot Program:** The Secretary shall establish a competitive grant pilot program for up to 5 project grants to State governments, Indian tribal governments, local governments, metropolitan transportation authorities, or partnerships of those entities to carry out 1 or more projects for the establishment of refueling infrastructure corridors, as designated by the Secretary, for renewable fuel blends. The Secretary shall issue requirements for use in applying for grants under the pilot program. An application shall be submitted to the Secretary by not later than 180 days after the date of publication of the notice under that clause. Not later than 90 days after the date by which applications for grants are due, the Secretary shall select applications for projects to be awarded a grant under the pilot program. Not later than 60 days after the date on which grants are awarded under this subsection, the Secretary shall submit to Congress an initial status report. §244
- **DOE High-Performance Green Building Partnership Consortium Recognition:** The Secretary shall appoint a Director of Commercial High-Performance Green Buildings who shall formally recognize one or more groups that qualify as a high-performance green building partnership consortium. §421
- **GSA High-Performance Green Buildings Incentives Identification:** The Federal Director shall identify incentives to encourage the use expedited use of high-performance green buildings and related technology in the operations of the Federal Government. §436
- **GSA Lighting Technologies and Geothermal Heat Pump Review:** The Administrator shall conduct a review of the current use of cost-effective lighting technologies and geothermal heat pumps in GSA facilities and the availability to managers of GSA facilities. §439
- **DOE & EPA Voluntary National Information Program for Data Centers:** The Secretary and Administrator shall (after consulting with interested parties) initiate a voluntary national information program for data centers facilities and equipment that are widely used and for which there is a potential for significant data center energy savings as a result of a program. §453
- **Architect of the Capitol - Operation of Capitol Power Plant, Evaluation of the Accuracy of the Meters & Corrections:** The Architect of the Capitol shall evaluate the accuracy of the meters in use at the Capitol Power Plant and correct them as necessary. §504
- **DOE Energy Storage Advisory Council:** The Secretary shall establish an Energy Storage Advisory Council. The Council shall consist of not less than 15 individuals, appointed by the Secretary and primarily consisting of representatives of the U.S. energy storage industry. No later than 1 year after date of enactment and every 5 years thereafter, the Council shall develop a 5-year plan for integrating basic and applied research in this area. §603
- **DOE Commercial Insulation Demonstration Program Report:** The Secretary shall submit to Congress a report that includes an evaluation of the state of technological advancement of advanced insulation; and the projected amount of cost savings that would be generated by implementing advanced insulation into covered refrigeration units. §652

- **President International Cooperation Task Force:** The President shall establish a Task Force on International Cooperation for Clean and Efficient Energy Technologies. The Task Force shall terminate 12 years after enactment. §916
- **DOT—Short Sea Transportation Initiative Rulemaking:** Transportation Secretary shall issue a temporary rulemaking to implement Short Sea Transportation Program to mitigate landside congestion. Transportation Secretary shall issue final rulemaking by October 1, 2008 to implement the program. §1121
- **Small Business Administrator Implementation of Small Business Energy Efficiency Program :** Within 90 days of bill enactment the Small Business Administrator shall promulgate final rules establishing the Government- wide program authorized under subsection (d) of section 337 of the Energy Policy and Conservation Act (42 U.S.C. 6307) that ensure compliance with that subsection by no later than 6 months after such date of enactment- develop and coordinate a Government-wide program, building on the Energy Star for Small Business program. The administrator in consultation with the Secretary of Energy and the Administrator of the Environmental Protection Agency shall develop and coordinate the implementation of the Small Business Energy Efficiency Program. §1203
- **DOE Establishment of Smart Grid Advisory Committee:** Not later than 90 days after enactment a Smart Grid Advisory Committee (either as an independent activity or as a designated sub-part of a larger advisory committee on electricity matters) shall be formed by DOE. §1303
- **DOE Establishment of Smart Grid Task Force:** Not later than 90 days after enactment, a Smart Grid Task Force will be formed. This group will be composed of designated employees from the various divisions of that office who have responsibilities related to the transition to smart-grid technologies and practices. The Assistant Secretary or his designee shall be identified as the Director of the task force. The Chairman of the FERC and the Director of the National Institute of Standards and Technology shall each designate at least one employee to participate on the task force. Other members may come from other agencies at the invitation of the Assistant Secretary or the nomination of the head of such other agency. §1303

(March 31, 2008)

- **International Clean Energy Foundation:** Shall be established to serve long-term foreign policy and energy security goals of reducing global greenhouse gas emissions by making grants to promote projects outside the U.S. that serve as models for reducing emissions through the use of clean, efficient technologies. The Foundation will report to an advisory board composed of the Secretary of State, Secretary of Energy, Administrator of USAID, and four other individuals with relevant experience appointed by the President with the consent of the Senate. The Foundation shall submit a report to Congress on implementation not later than March 31, each year beginning in 2008. §922-924

120 days after enactment (April 17, 2008):

- **DOE Rebate Program Report:** The Secretary shall submit a report to Congress on a study regarding the rebate programs established under sections 124 and 206(c) of EPAAct 2005. §412

180 days after enactment (June 16, 2008):

- **FTC Biomass-based Diesel and Biodiesel Labeling Promulgation:** The Federal Trade Commission shall promulgate biodiesel labeling requirements in which each retail diesel fuel pump shall be labeled in a manner that informs consumers of the percent of biomass-based diesel or biodiesel that is contained in the biomass-based diesel blend or biodiesel blend that is offered for sale. §205
- **DOE Biodiesel Study & Report:** The Secretary, in consultation with the Administrator of the Environmental Protection Agency, shall submit a report to Congress on any research and development challenges inherent in increasing the proportion of diesel fuel sold in the United States that is biodiesel. The Director of the National Institute of Standards and Technology, in consultation with the Secretary, shall make publicly available the physical property data and characterization of biodiesel and other biofuels as appropriate. §221
- **DOE Biogas Study & Report:** The Secretary, in consultation with the Administrator of the Environmental Protection Agency, shall submit a report to Congress on any research and development challenges inherent in increasing the amount of transportation fuels sold in the United States that are fuel with biogas or a blend of biogas and natural gas. §222
- **DOE Optimization of Flexible Fueled Vehicles to Use E-85 Fuel Study & Report:** The Secretary, in consultation with the Secretary of Transportation and the Administrator of the Environmental Protection Agency, shall conduct a study of whether optimizing flexible fueled vehicles to operate using E-85 fuel would increase the fuel efficiency of flexible fueled vehicles. The Secretary shall submit a report to the Congress that describes the results of the study under this section, including any recommendations of the Secretary. §225
- **DOE Optimization of Biogas Used in Natural Gas Vehicles Study & Report:** The Secretary, in consultation with the Administrator of the Environmental Protection Agency and the Secretary of Transportation, shall conduct a study of methods of increasing the fuel efficiency of vehicles using biogas by optimizing natural gas vehicle systems that can operate on biogas, including the advancement of vehicle fuel systems and the combination of hybrid-electric and plug-in hybrid electric drive platforms with natural gas vehicle systems using biogas. The Secretary shall submit a report to Congress that describes the results of the study, including any recommendations of the Secretary. §227
- **DOE/DOT Adequacy of Transportation of Domestically-Produced Renewable Fuel by Railroads and Other Modes of Transportation Joint Study & Report:** The Secretary, in coordination with the Secretary of Transportation, shall jointly conduct a study of the adequacy of transportation of domestically-produced renewable fuels by railroad and other modes of transportation as designated by the Secretaries. The Secretaries shall jointly submit a report to Congress that describes the results of the study conducted. §245
- **EPA Biodiesel Standard Specifications Annual Inspection & Enforcement Program:** The Administrator shall establish an annual inspection and enforcement program to ensure that diesel fuel containing biodiesel sold or distributed in interstate commerce meets the standards established under regulations under this section, including testing and certification for compliance with applicable standards of the American Society for Testing and Materials. §247

- **DOE Standards Updating Progress Report:** The Secretary shall submit a report to Congress every 180 days on compliance with the schedule for standards updating provisions. §305
- **DOE Zero-Net Energy Commercial Buildings Initiative Agreement:** The Commercial Director shall competitively select and enter into an agreement with a consortium to develop and carry out the initiative. §422
- **Multi-Agency Zero-Net Energy Commercial Buildings Initiative Evaluations:** Energy Managers for each federal agency shall complete, for each calendar year, a comprehensive energy and water evaluation for approximately 25% of the facilities of their agency, ensuring that each agency's facilities are evaluated at least once every 4 years. Not less than 2 years after completion of each evaluation, each energy manager may implement any energy or water saving measure identified in the evaluation (individual measures may be bundled into combined projects). §432
- **DOE Zero-Net Energy Commercial Buildings Initiative Guidelines:** The Secretary shall issue guidelines and necessary criteria that each Federal agency shall follow for implementation of the Zero-Net Energy Commercial Buildings Initiative Evaluations. §432
- **OMB Energy Management Scorecards:** The Director shall issue semiannual scorecards for energy management activities carried out by each Federal agency. §432
- **Federal Agency Large Capital Energy Investment Review Process Establishment:** Each Federal Agency shall develop a process for reviewing each decision made on a large capital energy investment to ensure that the requirements are met and shall report to the Director of OMB. §434
- **GSA Lighting and Geothermal Heat Pump Technology Acceleration Program:** The Administrator shall establish a cost-effective lighting technology and geothermal heat pump technology acceleration program to achieve maximum feasible replacement of existing lighting, heating, cooling technologies in each GSA facility. §439
- **DOE Sustainability and Efficiency Grants and Loans Procedures:** The Secretary shall establish procedures for the solicitation and evaluation of potential projects for grant and loan funding and administration of the grant and loan programs for institutions. §471
- **GSA Green Building Advisory Committee Creation:** The GSA Federal Director, in coordination with the DOE Commercial Director, shall establish an advisory committee, to be known as the "Green Building Advisory Committee." §494
- **Architect of the Capitol – Capitol Complex Photovoltaic Roof Feasibility Studies & Report:** The Architect of the Capitol may conduct feasibility studies regarding construction of photovoltaic roofs for the Rayburn House Office Building and the Hart Senate Office Building. The Architect shall transmit to the Congress a report on the results of the feasibility studies and recommendations regarding construction of photovoltaic roofs for the buildings referred to in subsection. §501
- **Architect of the Capitol – Capitol Complex Master Plan, Energy and Environmental Measures & Report:** To the maximum extent practicable, the Architect of the Capitol shall include energy efficiency and conservation measures, greenhouse gas emission reduction measures, and other appropriate environmental measures in the Capitol Complex Master Plan. The Architect shall submit to the Congress a report on the energy efficiency and conservation measures, greenhouse gas emission reduction measures, and other appropriate environmental measures included in the Capitol Complex Master Plan. §503

- **Architect of the Capitol - Operation of Capitol Power Plant, Report on Implementation of this Section:** The Architect of the Capitol shall complete the implementation of the requirements of this section and submit a report describing the actions taken and the energy efficiencies achieved to the Congress. §504
- **DOE Methods to Reduce Concentrating Solar Power Systems Water Consumption Study:** The Secretary shall submit a report to Congress on the results of a study on methods to reduce the amount of water consumed by concentrating solar power systems. §603
- **DOE Photovoltaic Demonstration Program:** The Secretary shall establish a grant program and solicit proposals (and in each subsequent fiscal year for the life of the program) from States to demonstrate advanced photovoltaic technology. The Secretary shall also report to Congress 5 years after grant funds are first distributed to the States. §607
- **DOE Renewable Energy Construction Grants Criteria Established:** Within 180 days after enactment, the Secretary shall set forth criteria for use in awarding renewable energy construction grants. §803
- **DOS Energy Diplomacy and Security Report:** The Secretary shall submit a report to Congress that includes a description of the DOS personnel who are dedicated to energy matters and are stationed at embassies and consulates in countries that are major energy producers or consumers, an analysis of the need for Federal energy specialist personnel, and recommendations for increasing energy expertise within the U.S. embassies. §931
- **DOS Energy Activities Report:** The Secretary shall submit a report to Congress with 180 days and every 2 years thereafter for the following 20 years that describes energy-related activities being conducted by the DOS. §931
- **DOS Transparency in Extractive Industries Resource Payments Report:** The Secretary, in consultation with the Secretary of Energy, shall submit a report to Congress on progress made in promoting transparency in extractive industries resource payments. §935
- **DOE Energy Efficiency and Renewable Energy Worker Training Program:** The Secretary in consultation with the Secretary of Energy shall establish an energy efficiency and renewable energy worker training program. §1002

(July 1, 2008)

- **FTC Metal Halide Lamp Fixture Labeling Rulemaking:** The Commission shall issue labeling rules for any metal halide lamp fixture manufactured on or after January 1, 2009. §324

270 days after enactment (Sept. 15, 2008):

- **EPA Recoverable Waste Energy Sources Registry Rulemaking:** The Administrator shall publish a final rule for establishing criteria for including sites in a Registry of Recoverable Waste Energy Sources. §451
- **GSA Energy and Water Conservation Implementation Plan:** The Administrator shall ensure that a manager responsible for accelerating the use of cost-effective technologies and practices is

designated for each GSA facility and submit an annual plan to Congress for complying with section 432, 438, and other applicable provisions in this Act. Measures included in the plan shall be implemented within 5 years of enactment. §439

10 months after enactment (Oct.19, 2008):

- **DOT—Capital Grants for Class II and Class III Railroads Rulemaking:** Transportation Secretary shall issue final rulemaking to implement a program for making grants to class II and III railroads for projects that rehabilitate, preserve or improve railroad tracks and structures; facilitate usage of railroad transportation for freight shipments; and reduce the use of less efficient rail freight shipping methods. §1101

(October 31, 2008)

- **Federal Agency Installation of Renewable Heat Pumps, President’s Report:** Not later than October 31, 2008, and each October 31 thereafter, the President shall submit to Congress a report that describes the progress toward complying with subsection (a), including identifying the number of Federal fleet fueling centers that contain at least 1 renewable fuel pump, and the number of Federal fleet fueling centers that do not contain any renewable fuel pumps. §246
- **Comptroller General High-Performance Federal Buildings Audit Report:** Not later than Oct. 31 of 2008 and 2009, the Comptroller General of the U.S. shall, with respect to the preceding fiscal year, conduct an implementation audit of the High-Performance Federal Buildings Subtitle that will examine budget, costing, contracting, coordination, and data collection issues and submit to the Federal Director of GSA, the Advisory Committee, the Administrator, and Congress, a report describing the results of the audit. §437

1 year after enactment (Dec. 19, 2008):

- **DOE Near-Term Transportation Sector Electrification Program:** Secretary shall establish a program to provide grants for qualified electric transportation projects with priority given to large-scale projects. §131
- **DOE—Electric Drive Transportation Technology Education Program:** Secretary shall develop an education program to provide teaching materials to secondary schools; assistance to higher education relating to electric drive system and component engineering. Program shall develop the “Dr. Andrew Frank Plug-In Electric Vehicle Competition” for institutions of higher education. §131
- **DOE Advanced Vehicles Manufacturing Facility Direct Loan Program:** Secretary shall carry out a program to provide up to \$25 billion dollars in loans to eligible individuals for the costs and activities of re-equipping, expanding or establishing a manufacturing facility to produce qualifying advanced technology vehicles, components or engineering integration. The Secretary shall, in making awards or loans to those manufacturers with existing facilities, give priority to those that are oldest or have been in existence for 20 or more years and also provide no less than 10% in awards to firms that employ less than 500 individuals and manufactures automobiles or automobile components. §136

- **EPA Renewable Fuel Program Revision of Regulations:** The Administrator shall revise the regulations to ensure that transportation fuel sold or introduced into commerce in the United States (except in noncontiguous States or territories), on an annual average basis, contains at least the applicable volume of renewable fuel, advanced biofuel, cellulosic biofuel, and biomass-based diesel, and, in the case of any such renewable fuel produced from new facilities that commence construction after the date of enactment of this sentence, achieves at least a 20 percent reduction in lifecycle greenhouse gas emissions compared to baseline lifecycle greenhouse gas emissions. The Administrator shall promulgate rules establishing the applicable volumes under this clause no later than 14 months before the first year for which such applicable volume will apply. §202
- **DOE Renewable Fuel Infrastructure Grants:** The Secretary shall establish a program for making grants for providing assistance to retail and wholesale motor fuel dealers or other entities for the installation, replacement, or conversion of motor fuel storage and dispensing infrastructure to be used exclusively to store and dispense renewable fuel blends. Not later than 12 months after the date of enactment of this Act, the Secretary shall establish criteria for evaluating applications for grants under this subsection. Not later than the date on which each renewable fuel blend station begins to offer renewable fuel blends to the public, the grant recipient that used grant funds to construct or upgrade such station shall notify the Secretary of such opening. The Secretary shall add each new renewable fuel blend station to the renewable fuel blend station locator on its Website when it receives notification under this subsection. §244
- **EPA Standard Specifications for Biodiesel Rulemaking to Establish a Uniform Per Gallon Fuel Standard:** Unless the American Society for Testing and Materials has adopted a standard for diesel fuel containing 20 percent biodiesel (commonly known as `B20'), and/or diesel fuel containing 5 percent biodiesel (commonly known as `B5') within 1 year after the date of enactment of this subsection, the Administrator shall initiate a rulemaking to establish a uniform per gallon fuel standard for such fuel and designate an identification number so that vehicle manufacturers are able to design engines to use fuel meeting such standard. Whenever the Administrator is required to initiate a rulemaking under this section, the Administrator shall promulgate a final rule within 18 months after the date of the enactment of this subsection. §247
- **DOE Zero-Net Energy Commercial Buildings Initiative Guidelines:** The Secretary shall issue guidelines and necessary criteria that each Federal agency shall follow for implementation of energy and water savings measures identified in the Zero-Net Energy Commercial Buildings Initiative Evaluations. §432
- **DOE Zero-Net Energy Commercial Buildings Initiative Web-Based Tracking System Implementation:** The Secretary shall develop and deploy a web-based tracking system that tracks the status of the facilities covered by the Zero-Net Energy Commercial Buildings Initiative and provides the estimated cost, energy and water savings from implemented measures and benchmarking information. §432
- **DOE Building Energy Use Benchmarking System Development:** The Secretary shall select or develop the building energy use benchmarking system and issue guidance for its use. Information shall be updated by the energy manager each year to allow changes in building performance to be tracked over time. §432
- **DOE Federal Building Energy Efficiency Performance Standards Rulemaking:** The Secretary shall establish, by rule, revised Federal building energy efficiency performance standards. §433

- **OMB Large Capital Energy Investment Review Process Report:** The Director of OMB shall report to Congress on the compliance of each Federal Agency in developing a process for reviewing each decision made on a large capital energy investment. §434
- **GSA Lighting and Geothermal Heat Pump Technology Timetable:** The Administrator shall establish a timetable of actions, including milestones for specific activities needed to replace existing lighting, heating, cooling technologies and geothermal heat pump technology to the maximum extent feasible at each GSA facility. §439
- **EPA Recoverable Waste Energy Sources Registry:** The Administrator shall establish a Registry of Recoverable Waste Energy Sources. The Registry shall be updated on a regular basis and made available to the public on the EPA website. §451
- **EPA Waste-Heat Recovery Annual Report:** The Administrator shall submit an annual report to Congress describing the lost opportunities for waste-heat recovery from any instance in which a state regulatory authority (with respect to each electric utility for which the it has ratemaking authority) or nonregulated electric utility declines to implement any waste heat recovery standard established by this Act. §451
- **GSA & DOE University Demonstration Project Annual Report:** The GSA Federal Director and the DOE Commercial Director shall submit annual reports through 2014 describing the status of the university demonstration projects of green features at Federal Buildings. §491
- **EPA Grant Program Guidelines:** The Administrator shall issue guidelines to implement the grant program established by this Act to provide competitive grants to assist local governments in deploying cost-effective technologies and practices. §493
- **DOE Federal Contracting Officers, Negotiating Energy Efficiency Contracts, Training:** The Secretary shall plan, staff, announce, and begin training under the Federal Energy Management Program for the purposes of educating Federal contract negotiation and contract management personnel so that the contract officers are prepared to negotiate energy savings performance contracts, conclude effective and timely contracts for energy efficiency services with all companies offering energy efficiency services, and review Federal contracts for all products and services for the potential energy efficiency opportunities and implications of the contracts. §517
- **DOE Integration of Solar Power and Utility Photovoltaic Systems Study:** The Secretary shall conduct a study and submit a report to Congress on methods to integrate concentrating solar power and utility-scale photovoltaic systems into regional electricity systems to improve reliability, efficiently manage load, and to reduce natural gas system demand. The study will also identify new transmission or upgrades needed to bring electricity from high resource areas to growing electric load centers in the U.S. §603
- **DOE Bright Tomorrow Lighting Prizes:** As part of the program carried out under section 1008 of the Energy Policy Act of 2005, the Secretary shall establish and award Bright Tomorrow Lighting Prizes for solid state lighting in accordance with Section 655 of the Act. §655
- **DOE Geologic Sequestration Training and Research Results Report:** The Secretary shall transmit to Congress a copy of the results of the study provided by the National Academy of Sciences. §705
- **DOI Carbon Dioxide Sequestration Capacity Assessment Methodology Development:** The Secretary shall develop a methodology for conducting an assessment of carbon dioxide sequestration capacity in the U.S. The Secretary shall consult with the Secretary of Energy and the EPA

Administrator on issues of data sharing, format, development of methodology, and content of the assessment. §711

- **DOI National Assessment of Carbon Sequestration and Methane and Nitrous Oxide Emissions From Ecosystems Methodology Development:** Not later than one year after the date of enactment, the Secretary shall develop a methodology for conducting the assessment §712
- **DOI Framework for Geological Carbon Sequestration on Public Land Report:** The Secretary, shall submit to the Committee on Natural Resources of the House of Representatives and the Committee on Energy and Natural Resources of the Senate a report on the recommended framework for managing geological carbon sequestration on public land. In preparing the report the Secretary shall coordinate with the EPA Administrator, the Secretary of Energy and the heads of other appropriate agencies. §714
- **USAID Assistance for Developing Countries Report:** The Administrator submit an annual report to Congress for each fiscal year 2008-2012 on development of policies and programs to promote clean and efficient energy technologies in developing countries. §911
- **DOC Exports and Outreach Programs Report:** The Secretary shall submit an annual report to Congress for each fiscal year 2008-2012 on progress creating a corps of the Foreign Commercial Service officers to promote U.S. exports in clean and efficient energy technologies and build the capacity of government officials in India, China, and any other country deemed appropriate, to become more familiar with the available technologies. §912
- **DOC Private Sector Trade and Investment Report:** The Secretary shall submit an annual report to Congress for each fiscal year 2008-2012 on efforts to direct the International Trade Administration to expand or create trade missions to and from the U.S. to encourage private sector trade and investment in clean and efficient energy technologies. §913
- **Overseas Private Investment Corp. Clean and Efficient Technologies Report:** The Overseas Private Investment Corporation shall include in its annual report a description of activities to promote greater investment in clean and efficient energy technologies. §914
- **President Trade and Development Agency Report:** The President shall include in the annual report on the activities of the Trade and Development Agency a description of activities by the Director to establish or support policies that seek opportunities to fund projects that utilize clean and efficient technologies and recruit and retain individuals with appropriate expertise in clean, renewable, and efficient technologies. §915
- **International Cooperation Task Force Strategy Report:** The Task Force on International Cooperation for Clean and Efficient Energy Technologies shall submit a strategy to support the development and implementation of initiatives in developing countries to promote the adoption of clean and efficient energy technologies to the President and Congress. Every 3 years, the strategy shall be updated and the President shall submit a report to Congress on the strategy. §916
- **DOE Smart Grid System Report:** Through the Assistant Secretary of the Office of Electricity Delivery and Energy Reliability (OEDER) and the Smart Grid Task Force a report shall be made to Congress concerning the status of smart grid deployments nationwide and any regulatory or government barriers to continued deployment within a year after enactment and every two years thereafter. The report shall provide the current status and prospects of smart grid development, including information on technology penetration, communications network capabilities, costs and obstacles. The report shall also describe State and Federal policies or actions helpful to facilitate the

transition to a smart grid. The report should take a regional perspective to the extent appropriate. §1302

- **National Institute of Standards and Technology Development Smart Grid Interoperability Report:** The Director of the National Institute of Standards and Technology shall provide and publish initial report on progress toward recommended or consensus standards and protocols within one year after enactment. §1305
- **DOE Federal Matching Fund for Smart Grid Investment Costs:** The Secretary of Energy shall establish a Smart Grid Investment Matching Grant Program to provide reimbursement of one-fifth (20 percent) of qualifying Smart Grid investments and shall also establish and publish in the Federal Register, within one year after the enactment of this Act procedures by which applicants who have made qualifying Smart Grid investments can seek and obtain reimbursement of one-fifth of their documented expenditures. DOE shall also, maintain public records, and have and exercise the discretion to deny grants for investments that do not qualify in the reasonable judgment of the Secretary. §1306
- **DOE Study and Report on the Effect of Private Wire Laws on the Development of Combined Heat and Power Facilities:** The Secretary, in consultation with the States and other appropriate entities shall conduct a study of the laws (including regulations) affecting the siting of privately owned electric distribution wires on and across public rights-of way. The study shall include an evaluation of the purposes of the laws; and the effect the laws have on the development of combined heat and power facilities; a determination of the operating, cost and reliability impacts, and an assessment of whether privately-owned wires would result in duplicative facilities and whether duplicative facilities are necessary and desirable. Within a year after enactment the Secretary shall submit to Congress a report that describes the results of the study. §1308

(Dec. 31, 2008)

- **DOE Standby Mode Test Procedures for Battery Charger Rulemaking:** Test procedure amendments shall be prescribed by final rule for battery chargers and external power supplies. §310
- **DOE Lamp Efficiency Standard Data Collection/Modeling:** The Secretary, in consultation with the National Electrical Manufacturers Association, shall collect actual data for U.S. unit sales for rough service lamps, vibration service lamps, 3-way incandescent lamps, 2,601-3,300 lumen general service incandescent lamps, and shatter-resistant lamps (all exempt from new standards) for each calendar year 1990-2006 and construct a model for each type of lamp to provide a benchmark. §321
- **FTC Lamp Labeling Rulemaking:** The Commission shall initiate a rulemaking to consider the effectiveness of current lamp labeling for power level or watts, light output or lumens, and lamp lifetime. The rulemaking shall also consider alternate labeling approaches that will help consumers. The rulemaking shall be completed within 30 months of enactment (June 19, 2010) and the Commission shall consider reopening the rulemaking not later than 180 days before the effective dates of the standards for general service incandescent lamps if the Commission determines further labeling changes are needed. §321
- **DOE Mercury Use and Release Report:** The Secretary, in cooperation with the Administrator of the EPA, shall submit a report to Congress describing recommendations relating to the means by which the Federal Government may reduce or prevent the release of mercury during the manufacturing, transportation, storage, or disposal of light bulbs. §321

- **GSA Public Building Energy Efficiency & Renewable Energy Performance Requirements:** With respect to leased space, the Administrator shall include, to the maximum extent practicable, minimum performance requirements for energy efficiency and the use of renewable energy. §323
- **EIA Assessment of State Data Needs:** Within a year after the enactment of this Act, the Administrator shall submit to Congress an assessment of State-level energy data needs, including a plan to address the needs. §805
- **DOT—Short Sea Transportation Report:** The Secretary of Transportation shall submit to Congress a report on the short sea transportation program. The report is to include a description of activities conducted and any recommendations for further legislative or appropriate administrative action. §1123
- **DOT—Transportation System’s Impact on Climate Change and Fuel Efficiency Report:** The Secretary of Transportation shall submit a report to Congress containing the results of the Office of Climate Change and Environment study on the transportation system’s impact on climate change and fuel efficiency. §1101
- **Small Business Administrator Energy Efficiency Program Strategy / Report:** The Small Business Administrator shall develop a strategy to educate, encourage, and assist small business concerns in adopting energy efficient building fixtures and equipment and submit a report to Congress containing a plan to implement the strategy. §1203
- **Small Business Administrator Investments in Energy Saving Small Businesses:** The Administrator shall exclude the amount of the cost basis of any Energy Saving qualified investment in a smaller investment in a smaller enterprise made in the first fiscal year after the date of enactment. §1206

15 months after enactment (March 19, 2009):

- **DOE Ethanol Pipeline Feasibility Study & Report:** The Secretary, in coordination with the Secretary of Transportation, shall conduct a study of the feasibility of the construction of pipelines dedicated to the transportation of ethanol. The Secretary shall submit a report to Congress describing the results of the study conducted under this section. §243
- **DOT—Capital Grants for Class II and Class III Railroads Study and Report:** Transportation Secretary shall conduct a study of projects carried out with grant assistance to determine the extent the program helps promote a reduction in freight transportation fuel usage and demonstrates innovative technologies that increase fuel economy, reduce greenhouse gas emissions and lowers operating costs. Transportation Secretary to submit study findings in a report to Congress. §1112

18 months after enactment (June 19, 2009):

- **EPA--Automobile Labeling Criteria:** EPA Administrator shall develop labeling criteria for new automobiles to reflect fuel economy and greenhouse gas and other emissions over the useful life of the automobile. §105

- **DOE—Federal Fleet Conservation Rulemaking:** Secretary shall issue a rulemaking that beginning in 2010, each Federal agency shall reduce petroleum consumption and increase alternative fuel consumption each year in order to reduce petroleum consumption by 20% and increase alternative fuel consumption by 10% by 10/1/2015 based on 2005 levels. Agencies are to submit annual progress reports. §142
- **DOE Impact of Renewable Fuel Standard Study & Report:** The Secretary of Energy, in consultation with the Secretary of Agriculture and the Administrator of the Environmental Protection Agency, shall enter into an arrangement with the National Academy of Sciences under which the Academy shall conduct a study to assess the impact of the requirements described in section 211(o) of the Clean Air Act on each industry relating to the production of feed grains, livestock, food, forest products, and energy. The Secretary shall submit a report to Congress that describes the results of the study under this section. §203
- **EPA School Siting Guidelines:** The Administrator, in consultation with the Secretaries of Education and HHS, shall issue voluntary school site selection guidelines that account for the special vulnerability of children to hazardous substances or pollution exposures. §461
- **Each Federal Agency – Promoting Long-Term Energy Savings Performance Contracts and Verifying Savings, Modification of Existing Contracts:** Each Federal agency shall, to the maximum extent practicable, modify any indefinite delivery and indefinite quantity energy savings performance contracts, and other indefinite delivery and indefinite quantity contracts using private financing, to conform to the amendments made by Subtitle B of Title V of the Energy Independence and Security Act of 2007. §513
- **FERC National Action Plan for Demand Response:** The Commission shall conduct a National Assessment of Demand Response and submit a report to Congress. The Commission shall further develop a National Action Plan on Demand Response, soliciting and accepting input and participation from industry stakeholders, State regulatory utility commissioners, and non-governmental groups. Six months after publication, the Commission, together with the Secretary of Energy, shall submit to Congress a proposal to implement the Action plan. §529
- **DOE Marine and Hydrokinetic Renewable Energy Research and Development Report:** The Secretary, in conjunction with the Secretary of Commerce, acting through the Undersecretary of Commerce for Oceans and Atmosphere, and the Secretary of Interior shall provide to Congress a report that addresses potential environmental impacts, options to prevent adverse environmental impacts, the potential role of monitoring and adaptive management in identifying adverse environmental impacts of expanded marine and hydrokinetic renewable energy production. §633
- **DOE Report on the Study of Security Attributes of Smart Grid Systems:** Within 18 months the Secretary of Energy shall submit a report to Congress that provides a quantitative assessment and determination of the existing and potential impacts of the deployment of Smart Grid systems on improving the security of the Nation's electricity infrastructure and operating capability, including making the system less vulnerable to intentional disruptions. For this report, the Secretary shall consult with other Federal agencies in the development of the report including the DHS, the FERC, and the Electric Reliability Organization. §1309

(March 31, 2009)

- **DOE Standby Mode Test Procedures for Clothes Dryers, Room Air Conditioners, and Fluorescent Lamp Ballasts Rulemaking:** Test procedure amendments shall be prescribed by final

rule for standby energy use in clothes dryers, room air conditioners, and fluorescent lamp ballasts. §310

- **DOE Energy Efficiency and Renewable Energy State Energy Training Partnership Program Status Report:** Not later than 18 months after the date of enactment of the Green Jobs Act of 2007, the Secretary shall transmit a report to the Senate Committee on Energy and Natural Resources, the Senate Committee on Health, Education, Labor, and Pensions, the House Committee on Education and Labor, and the House Committee on Energy and Commerce on the training program. The report shall include a description of the entities receiving funding and the activities carried out by such entities. §1002

(June 30, 2009)

- **DOE Standby Mode Test Procedures for Residential Clothes Washers Rulemaking:** Test procedure amendments shall be prescribed by final rule for standby energy use in residential clothes washers. §310

(September 30, 2009)

- **DOE Standby Mode Test Procedures for Residential Furnaces and Boilers Rulemaking:** Test procedure amendments shall be prescribed by final rule for standby energy use in residential furnaces and boilers. §310
- **EPA Impact of Renewable Fuel Standard Periodic Reviews:** The Administrator, to allow for the appropriate adjustment of the requirements described, shall conduct periodic reviews of existing technologies, the feasibility of achieving compliance with the requirements, and the impacts of the requirements on each individual and entity effected. §203
- **EPA Credits for Use of Renewable Electricity in Electric Vehicles Study & Report:** The Administrator of the Environmental Protection Agency shall conduct a study on the feasibility of issuing credits under the program established under section 211(o) of the Clean Air Act to electric vehicles powered by electricity produced from renewable energy sources. The Administrator shall submit a report to Congress that describes the results of the study, including a description of existing programs and studies on the use of renewable electricity as a means of powering electric vehicles, and alternatives for designing a pilot program to determine the feasibility of using renewable electricity to power electric vehicles. §206
- **EPA Prevention of Air Quality Deterioration Study:** The Administrator shall complete a study to determine whether the renewable fuel volumes required by this section will adversely impact air quality as a result of changes in vehicle and engine emissions of air pollutants regulated under this Act. The study shall include consideration of different blend levels, types of renewable fuels, and available vehicle technologies, and appropriate national, regional, and local air quality control measures. Not later than 3 years after the date of enactment of this subsection, the Administrator shall promulgate fuel regulations to implement appropriate measures to mitigate, to the greatest extent achievable, considering the results of the above study, any adverse impacts on air quality, as the result of the renewable volumes required by this section; or make a determination that no such measures are necessary. §209

2 years after enactment (Dec. 19, 2009):

- **EPA--Fuel Economy Labeling Procedures Review:** Beginning in December, 2009, and not less than every five years thereafter, the EPA Administrator shall reevaluate the fuel economy labeling procedures described in the Federal Register final rule dated 12/27/2006 (71 Fed. Reg. 77,872; 40 CFR parts 86 and 600) to determine whether changes in the factors used to establish the labeling procedures warrant a revision and submit a report to Congress that describes the results of the reevaluation process. §110
- **DOT--Consumer Tire Information Rulemaking:** Transportation Secretary shall promulgate rules establishing a national tire fuel efficiency consumer information program for replacement tires which would include a national tire fuel efficiency rating system; consumer information requirements; specifications for manufacturers test methods; and a national tire maintenance consumer education program. §111
- **DOE Renewable Fuel Dispenser Feasibility Study Report-** The Secretary, in consultation with the Department of Transportation, shall report to Congress on the feasibility of requiring motor fuel retailers to install E-85 compatible dispensers and related systems at retail fuel facilities in regions where flexible-fuel vehicle market penetration has reached 15 percent of motor vehicles. §242
- **DOE Refueling Infrastructure Corridors Pilot Program, Additional Grants:** The Secretary shall publish a notice and request for up to an additional 5 applications to carry out projects under the pilot program that incorporate the information and knowledge obtained through the implementation of the first round of projects authorized under the pilot program. An application shall be submitted to the Secretary by not later than 180 days after the date of publication of the notice under that clause. Not later than 90 days after the date by which applications for grants are due, the Secretary shall select applications for projects to be awarded a grant under the pilot program. §244
- **DOE Refueling Infrastructure Corridors Pilot Program, Annual Evaluations:** Not later than 2 years after the date of enactment of this Act, and annually thereafter until the termination of the pilot program, the Secretary shall submit to Congress a report containing an evaluation of the effectiveness of the pilot program, including an assessment of the petroleum displacement and benefits to the environment derived from the projects included in the pilot program. §244
- **DOE High-Performance Green Building Partnership Consortium Report:** The Commercial Director, in consultation with the Consortium, shall submit a biennial report to Congress that describes the status of the high-performance green building initiatives. §421
- **Federal Acquisition Regulatory Council Regulation Revision:** The Federal Acquisition Regulation shall be revised to require Federal officers and employees to comply with new standards established in this section for the acquisition, construction, or major renovation of any facility. Not later than 90 days after the date of promulgation of the revised regulations, the Administrator for Federal Procurement Policy shall issue guidance to all Federal procurement executives. §433
- **GSA High-Performance Green Buildings Incentives Identification:** The GSA Federal Director, in consultation with the Secretary of Energy, shall submit a report to Congress that describes the status of compliance with Federal high-performance green buildings initiatives, recommends language for uniform standards for use by Federal agencies, and in coordinating with OMB, reviews the budget process and capital programs. §436
- **EPA Environmental Health Program Voluntary Guidelines:** The Administrator, in consultation with the Secretaries of Education and HHS, shall issue voluntary guidelines for use by the States in developing and implementing an environmental health program for schools. §461

(December 21, 2009)

- **DOE Walk-In Freezers Evaporator Fan Rulemaking:** The Secretary shall enter into an agreement with the National Academy of Sciences to provide a report by Dec. 31, 2013 and an updated report by July 31, 2015 on the status of advanced solid state lighting research, development, demonstration, and commercialization. The report shall also address the impact on the types of lighting available and the time frame for commercialization. §312

(January 1, 2010)

- **DOE Walk-In Freezers Evaporator Fan Rulemaking:** The Secretary shall establish the maximum energy consumption level under for motors in evaporator fan applications for walk-in coolers and walk-in freezers. §312
- **DOE Walk-In Freezers Test Procedures Rulemaking:** The Secretary shall establish a test procedure to measure the energy use of walk-in coolers and walk-in freezers. §312
- **DOE Lamp Efficiency Standard Data Collection/Rulemaking:** The Secretary, in consultation with the National Electrical Manufacturers Association, shall collect actual data for U.S. unit sales for rough service lamps, vibration service lamps, 3-way incandescent lamps, 2,601-3,300 lumen general service incandescent lamps, and shatter-resistant lamps for each calendar year 2010-2025 and not later than 90 days after the end of each calendar year, compare results to the predicted comparison benchmark index. Beginning with the first year that the index has been exceeded by 100%, the Secretary shall issue a finding that the index has been exceeded and not later than 1 year later, the Secretary shall complete an accelerated rulemaking to establish an energy conservation standard for the exempt products. If the Secretary issues a final rule prior to January 1, 2025, the data collection/modeling effort shall terminate unless the Secretary determines continued tracking is necessary. Not later than 2023, the Secretary shall determine if any remaining data collection efforts should continue past 2025. §321

(March 31, 2010)

- **DOE Standby Mode Test Procedures for Residential Water Heaters, Direct Heating Equipment, and Pool Heaters Rulemaking:** Test procedure amendments shall be prescribed by final rule for residential water heaters, direct heating equipment, and pool heaters. §310

(December 31, 2010)

- **DOE Refrigerators and Freezers Rulemaking:** The Secretary shall publish a final rule determining whether to amend the standards in effect for refrigerators, refrigerator-freezers, and freezers manufactured on or after January 1, 2014. §311

3 years after the date of enactment (Dec. 19, 2010):

- **EPA Environmental and Resource Conservation Impacts Assessment & Report:** The Administrator of the Environmental Protection Agency, in consultation with the Secretary of Agriculture and the Secretary of Energy, shall assess and report to Congress on the impacts to date and likely future impacts of the requirements of section 211(o) of the Clean Air Act. This assessment and report shall be done every 3 years thereafter. §204

- **EPA Prevention of Air Quality Deterioration Study Promulgation of Fuel Regulations:** The Administrator shall promulgate fuel regulations to implement appropriate measures to mitigate, to the greatest extent achievable, considering the results of the above study, any adverse impacts on air quality, as the result of the renewable volumes required by this section; or make a determination that no such measures are necessary. §209
- **DOE Single Package Vertical Air Conditioners and Vertical Heat Pump Review:** The Secretary shall review the most recently published ASHRAI/IES Standard 90.1 with respect to single package vertical air conditioners and heat pumps. §314
- **Federal Agencies Space Leasing:** No Federal agency shall enter into a contract to lease space in a building that has not earned the Energy Star label in the most recent year. §435
- **Federal Acquisition Regulation Revision:** The Federal Acquisition Regulation as described in section 6(a) of the Office of Federal Procurement Policy Act shall be revised to require Federal officers and employees to comply with the provisions established in §435 of this Act for leasing buildings. §435
- **DOE & EPA National Information Program for Data Centers Determination:** The Secretary and Administrator shall make a determination as to whether the National Information Program for data centers is consistent with the objectives laid out in this section. The authority of the Administrator to carry out this section will expire 5 years after enactment. §453
- **DOE Advanced Geothermal Energy Research and Development Interim Report:** The Secretary shall submit an interim report to Congress, specifically the House Committee on Science and Technology and the Senate Committee on Energy and Natural Resources, on the progress made under Subtitle B: Geothermal Energy. §621
- **DOE Advanced Uses of Geothermal Energy Report:** The Secretary shall submit a report to Congress, specifically the House Committee on Science and Technology and the Senate Committee on Energy and Natural Resources, on advanced concepts and technologies to maximize geothermal potential in the U.S. §621
- **DOE Risk-Informed Assessment Formula Regulation:** The Secretary shall, by regulation, determine the risk assessment formula for the allocation among nuclear suppliers of the contingent cost resulting from a covered incident that is not a Price-Anderson incident, taking into account risk factors. Every 5 years. §934
- **DOE Energy Efficiency and Renewable Energy State Energy Training Partnership Program Evaluation:** No later than 3 years after the date of enactment the Secretary shall transmit to the Senate Committee on Energy and Natural Resources, the Senate Committee on Health, Education, Labor, and Pensions, the House Committee on Energy and Commerce an assessment of such program and an evaluation of the activities carried out by entities receiving funding from such a program. §1002
- **DOT—Advanced Technology Locomotive Grant Pilot Program Report:** Transportation Secretary shall submit a report to Congress on the results of the Advanced Technology Locomotive Grant Pilot Program. §1111
- **Small Business Administrator Renewable Fuel Capital Investment Program Study and Report:** The Administrator of the Small Business Administration shall conduct a study of the Renewable Fuel

Capital Investment Program, not later than 3 years after the date of enactment and submit to Congress a report regarding the results of the study. §1208

(During fiscal year 2011)

- **DOE Carbon Capture and Sequestration Research, Development, and Demonstration Program Review and Report:** The Secretary shall conduct a review of programmatic activities and make recommendations with respect to continuation of the activities. §702

(Beginning in year 2011)

- **DOE Review and Oversight of Large-Scale Programs:** The Secretary shall enter into an arrangement with the National Academy of Sciences for an independent review of the programs under section 963(c)(3) of EPACT 2005, to ensure that the benefits of such programs are maximized. §704

(March 31, 2011)

- **DOE Standby Mode Test Procedures for Residential Dishwashers, Ranges and Ovens, Microwave Ovens, and Dehumidifiers Rulemaking:** Test procedure amendments shall be prescribed by final rule for standby energy use in residential dishwashers, ranges and ovens, microwave ovens, and dehumidifiers. §310

(July 1, 2011)

- **DOE External Power Supply Rulemaking:** The Secretary shall publish a final rule to determine whether the class A external power supply standards that take effect on July 1, 2008 should be amended for products manufactured on or after July 1, 2013. The Secretary shall publish an additional final rule no later than July 1, 2015 to determine if the standards in effect at that time should be amended. §301
- **DOE Battery Charger Rulemaking:** The Secretary shall issue a final rule that prescribes energy conservation standards for battery chargers or classes of battery chargers or determine that no energy conservation standard is technically feasible and economically justified. Standards to be effective by July 1, 2014 (according to EPAct 2005). §309

(December 31, 2011)

- **DOE Residential Clothes Washers Rulemaking:** The Secretary shall publish a final rule determining whether to amend the standards in effect for clothes washers manufactured on or after January 1, 2015. §311

3.5 years after enactment (June 19, 2011):

- **DOT—Consumer Education Program Rulemaking:** Transportation Secretary shall develop and implement a consumer education program to improve consumer understanding of automobile performance. §105

- **DOT—Fuel Savings Education Campaign:** Transportation Secretary shall establish a consumer education campaign on fuel savings achieved from the purchase of vehicles equipped with thermal management technologies. §105
- **DOT—Alternative Vehicle Fuel Tank Labeling Rulemaking:** Transportation Secretary shall require a label showing alternative fuel used be attached to alternative fueled vehicles. §105

4 years after enactment (Dec. 19, 2011):

- **DOE Manufactured Housing Energy Efficiency Standards Rulemaking:** The Secretary shall by regulation establish standards for energy efficiency for manufactured housing. The standards established shall be updated not later than 1 year after any revision to the International Energy Conservation Code. §413

(January 1, 2012)

- **DOE Walk-In Freezers Standards Rulemaking:** The Secretary shall publish performance-based standards for walk-in coolers and walk-in freezers that achieve maximum improvement in energy that the Secretary determines is technologically feasible and economically justified. §312
- **DOE Metal Halide Lamp Fixture Standards Rulemaking:** The Secretary shall publish a final rule to determine whether the standards prescribed in EISA §324, Subsection (hh)(2)(A) that take effect on January 1, 2009, should be amended. §324
- **DOE Review and Oversight of Large-Scale Programs Report:** The Secretary shall transmit to the Congress a report on the results of a National Academy of Sciences independent review of the programs under section 963(c)(3) of EPACT 2005. §704
- **Secretary of the Interior Geothermal Assessment and Report, Exploration Information, and Priority Activities:** Not later than January 1, 2012 the Secretary of the Interior, acting through the Director of the United States Geological Survey, shall complete a comprehensive nationwide geothermal resource assessment that examines the full range of geothermal resources in the United States; and submit to the Committee on Natural Resources and the Committee on Energy and Natural Resources a report describing the results of the assessment. §810

5+ years after enactment (Dec. 19, 2012):

- **DOE Appliance Test Procedures Review:** At least once every 7 years, the Secretary shall review test procedures for all covered products and amend or publish in the Federal Register any determination not to amend. §302
- **DOE Industrial Equipment Test Procedures Review:** At least once every 7 years, the Secretary shall conduct an evaluation of each class of covered equipment and determine if there is a need to prescribe new test procedures. Any determination not to amend a test procedure shall be published in the Federal Register. §302

- **GSA Green Buildings Comparison Study:** The Administrator shall conduct a study to evaluate and compare available third-party green building certification systems and levels. §433
- **GSA High-Performance Green Buildings Standards Assessment:** The Director of the Office of Federal High-Performance Green Buildings shall reassess improved or higher standards recommended by the Federal Green Buildings Advisory Committee every 5 years. §436
- **DOE Advanced Geothermal Energy Research and Development Progress Report:** The Secretary shall submit a report to Congress, specifically the House Committee on Science and Technology and the Senate Committee on Energy and Natural Resources, on the results of projects undertaken under Subtitle B: Geothermal Energy and on other information the Secretary considers appropriate. As necessary the Secretary shall report any legal, regulatory, or other barriers encountered that hinder economic development of these resources, and provide recommendations on legislative or other actions needed to address such impediments. §621
- **DOE Advanced Uses of Geothermal Energy Report:** The Secretary shall submit a report to Congress, specifically the House Committee on Science and Technology and the Senate Committee on Energy and Natural Resources, on advanced concepts and technologies to maximize geothermal potential in the U.S. §621
- **DOE Energy Storage Competitiveness Performance Assessment:** The Secretary shall offer to enter into an arrangement with the National Academy of Sciences to assess the performance of the Department in carrying out this section. §641
- **DOE Convention on Supplementary Compensation for Nuclear Damage Cost Allocation Report:** The Secretary shall submit a report to Congress on whether there is a need for continuation or amendment of §934, establishing the Convention on Supplementary Compensation for Nuclear Damage Cost Allocation, taking into account the effects of the implementation of the Convention on the U.S. nuclear industry and suppliers. Every 5 years. §934

(July 1, 2013)

- **DOE Rulemaking Schedule Report:** The Secretary shall submit a report (semi-annually through 2016) to Congress on whether the general service lamp rulemaking deadlines will be met, a description of any impediments, and a specific plan to remedy any failures, including recommendations for additional legislation or resources. §321

(January 1, 2014)

- **DOE General Service Lamp Efficiency Standard Rulemaking:** The Secretary shall initiate a rulemaking to determine whether standards in effect for general service lamps should be amended and whether the exemptions for certain incandescent lamps should be maintained or discontinued. The Secretary shall publish a final rule not later than January 1, 2017, with an effective date not earlier than 3 years after the final rule is published (January 1, 2020). §321

(January 1, 2015)

- **DOE Residential Dishwashers Rulemaking:** The Secretary shall publish a final rule determining whether to amend the standards in effect for dishwashers manufactured on or after January 1, 2018. §311

(October 1, 2016)

- **Federal Agency Natural Gas/Steam Metering:** Each agency shall provide for equivalent metering of natural gas and steam in all Federal buildings, in accordance with the guidelines established by the Secretary of DOE. §434

(January 1, 2019)

- **DOE Metal Halide Lamp Fixture Standards Rulemaking:** The Secretary shall publish a final rule to determine whether the standards then in effect for products manufactured on or after January 1, 2015 should be amended for products manufactured on or after January 1, 2022. §324

(January 1, 2020)

- **DOE Walk-In Freezers Rulemaking:** The Secretary shall publish a final rule to determine if the standards performance-based standards established for walk-in coolers and walk-in freezers should be amended to take effect on January 1, 2023. §312
- **DOE General Service Lamp Lumen Range Wattage Standard Rulemaking:** The Secretary shall initiate a rulemaking to determine whether standards in effect for general service lamps should be amended to reflect lumen ranges with more stringent maximum wattage. The Secretary shall publish a final rule not later than January 1, 2022, with an effective date not earlier than 3 years after the final rule is published (January 1, 2025). §321

No deadline currently established:

- **DOT--Automobile Fuel Economy Standards:** The Secretary shall prescribe a separate average fuel economy standard for passenger automobiles and for non-passenger automobiles for each model year beginning with model year 2011 to achieve a combined fuel economy average by 2020 of at least 35 miles per gallon. For model years 2021 through 2030, the average fuel economy shall be the maximum feasible average fuel economy standard for each fleet for that model year. §102
- **DOT--Minimum Fuel Economy Standards:** Each automobile manufacturer shall also meet the minimum standard of 27.5 miles per gallon or be required to come within 92% of the standard fuel economy for a given model year. §102
- **DOT—Commercial Vehicle and Work Truck Fuel Efficiency Improvement Rulemaking:** Not later than 24 months after completion of National Academy of Sciences study, the Secretary shall determine how to implement a commercial and heavy-duty vehicle and work truck fuel efficiency improvement program. Fuel economy standard shall provide not less than four full model years of regulatory lead-time. The Secretary may prescribe separate standards for different classes of vehicles. §102
- **DOT—Fuel Economy Credit Trading Program:** Transportation Secretary may establish a fuel economy credit trading program to allow manufacturers who exceed the average fuel economy standards to sell earned credits to manufacturers who fail to achieve the prescribed standards. Credits may be transferred only if they are earned after model year 2010 and may be transferred within a manufacturer's fleet. §104
- **DOT—Consumer Information Rulemaking:** Transportation Secretary shall develop and implement a program requiring labeling on automobiles to reflect fuel economy and other greenhouse

gas emissions. A rating system would also be implemented so consumers can compare fuel economy and greenhouse gas emissions information. §105

- **DOT--Enforcement of National Tire Fuel Efficiency Information Program:** Any person who fails to comply with the national tire fuel efficiency information program is liable to the U.S. Government for a civil penalty of not more than \$50,000 for each violation. §111
- **DOE—Plug-in Electric Drive Vehicle Program:** Secretary shall provide grants to state and local governments and other entities to encourage the use of plug-in electric drive vehicles or other emerging electric vehicle technologies. §131
- **DOE—Domestic Manufacturing Conversion Grant Program:** Secretary shall provide grants to automobile manufacturers and suppliers of hybrid components to encourage domestic production of efficient hybrid, plug-in electric drive and advanced diesel vehicles with priority given to manufacturing facilities that have recently ceased operations or are planning to cease operations. §132
- **DOE--Advanced Battery Loan Guarantee Program:** The Secretary shall establish a program to guaranty loans provided by private institutions for the manufacture of advanced vehicle batteries including advanced lithium batteries and hybrid electrical system components. §135
- **DOE--Advanced Vehicles Manufacturing Facility Awards Program:** Secretary shall provide funding awards to automobile manufacturers and component suppliers to pay not more than 30% of the cost of re-equipping, expanding or establishing a manufacturing facility to produce qualifying advanced technology vehicles or components and engineering integration. §136
- **DOE—Federal Vehicle Emissions Requirements:** Federal agencies are prohibited from acquiring any light-duty or medium-duty passenger vehicle that is not “a low greenhouse gas emitting vehicle.” Alternatively, agencies may demonstrate that it has adopted cost-effective policies to reduce its petroleum consumption sufficiently to achieve a comparable reduction in greenhouse gas emissions. §141
- **EPA Renewable Fuel Program Revision of Regulations:** The Administrator shall revise the regulations to ensure that transportation fuel sold or introduced into, on an annual average basis, contains at least the applicable volume of renewable fuel, advanced biofuel, cellulosic biofuel, and biomass-based diesel, and in the case of any such renewable fuel produced from new facilities that commence construction after the date of enactment of this sentence, achieves at least a 20 percent reduction in lifecycle greenhouse gas emissions compared to baseline lifecycle greenhouse gas emissions. . §202
- **EPA Renewable Fuel Standard Determination of Applicable Fuel Volumes & Analysis of Impact:** The Administrator, in coordination with the Secretary of Energy and the Secretary of Agriculture, shall determine the applicable volumes of each fuel specified for calendar years after the calendar years specified in the tables based on a review of the implementation of the program during calendar years specified in the tables, and an analysis of the impact of the production and use of renewable fuels. . §202
- **EPA Biomass-Based Diesel Market Evaluation:** The Administrator, in consultation with the Secretary of Energy and the Secretary of Agriculture, shall periodically evaluate the impact of the biomass-based diesel requirements established on the price of diesel fuel. §202

- **EPA Biomass-Based Diesel Waiver Order:** If the Administrator determines that there is a significant renewable feedstock disruption or other market circumstances that would make the price of biomass-based diesel fuel increase significantly, the Administrator, in consultation with the Secretary of Energy and the Secretary of Agriculture, shall issue an order to reduce, for up to a 60-day period, the quantity of biomass-based diesel required under subparagraph (A) by an appropriate quantity that does not exceed 15 percent of the applicable annual requirement for biomass-based diesel. For any calendar year in which the Administrator makes a reduction, the Administrator may also reduce the applicable volume of renewable fuel and advanced biofuels requirement by the same or a lesser volume. §202
- **EPA Biomass-Based Diesel Waiver Order Extensions:** If the Administrator determines that the feedstock disruption or circumstances described is continuing beyond the 60-day period described, the Administrator, in consultation with the Secretary of Energy and the Secretary of Agriculture, may issue an order to reduce, for up to an additional 60-day period, the quantity of biomass-based diesel required by an appropriate quantity that does not exceed an additional 15 percent of the applicable annual requirement for biomass-based diesel. §202
- **EPA Modification of Applicable Volumes Promulgation of Rule:** If the Administrator waives at least 20 percent of the applicable volume requirement set forth for 2 consecutive years; or at least 50 percent of such volume requirement for a single year, the Administrator shall promulgate a rule (within 1 year after issuing such waiver) that modifies the applicable volumes set forth in the table concerned for all years following the final year to which the waiver applies, except that no such modification in applicable volumes shall be made for any year before 2016. §202
- **EPA Study of Impact of Renewable Fuel Standard Periodic Reviews:** To allow for the appropriate adjustment of the requirements, the Administrator shall conduct periodic reviews of existing technologies, the feasibility of achieving compliance with the requirements, and the impacts of the requirements on each individual and entity described. §203
- **DOE Selection and Duration:** The Secretary shall establish at least 7 bioenergy research centers on a competitive basis for a duration of 5 years. A center that is in existence on the date of enactment of this subsection shall be counted towards the requirement. §233
- **DOE Market Penetration Reports:** The Secretary, in consultation with the Secretary of Transportation, shall determine and report to Congress annually on the market penetration for flexible-fuel vehicles in use within geographic regions to be established by the Secretary. §242
- **Federal Agency Installation of Renewable Heat Pumps:** The Head of Each Federal Agency not later than January 1, 2010, shall install at least 1 renewable fuel pump at each Federal fleet fueling center in the United States under the jurisdiction of the head of the Federal agency. §246
- **DOE General Service Lamp Market Annual Assessment:** The Secretary shall conduct an annual assessment of the market for general service lamps and compact fluorescent lamps to identify trends in market shares and better understand consumer decision making. The results shall be provided to the FTC for consideration for a rulemaking. §321
- **DOE Regional Furnace, A/C, and Heat Pump Standards Enforcement Rulemaking:** Within 90 days after the date of issuance of a final rule establishing a regional standard for heating or cooling equipment, the Secretary shall initiate a rulemaking to develop and implement an effective enforcement plan for covered products. Not later than 15 months after issuance of a final rule, the Secretary shall promulgate a final rule covering enforcement of regional standards for covered products. §306

- **FTC Regional Standards Information Disclosure Rulemaking:** Not later than 90 days after the date of publication of a final rule that establishes a regional standard, the FTC shall undertake a rulemaking to determine the appropriate methods for disclosing information to consumers, distributors, contractors, and installers. The rulemaking shall be completed within 15 months. §306
- **DOE Standby Mode Definition Modification Rulemaking:** The Secretary may, by rule, amend the definitions in taking into account the most current versions of Standards 62301 and 62087 of the International Electrotechnical Commission. §310
- **DOE Lamp Shape or Base Petition Rulemaking:** If the Secretary grants a petition for efficiency standards for lamps with a different shape or base, the Secretary shall complete an accelerated rulemaking within 18 months of granting the petition. §321
- **DOE National Lamp Labeling Consumer Awareness Program:** The Secretary, in cooperation with industry trade associations, lighting industry members, utilities, and other interested parties, shall carry out a proactive national program of consumer awareness, information, and education to help consumers understand lamp labels and make energy efficient choices. §321
- **DOE Lighting Technology R&D Program:** The Secretary may carry out a lighting technology R&D program to support commercial application of lamps and related technologies sold in the U.S. and assist manufacturers in the manufacturing of lamps that achieve minimum wattage requirements imposed as a result of EISA. The program shall terminate on Sept. 30, 2015. §321
- **DOE Metal Halide Lamp Ballast Rulemaking:** The Secretary may, by rule, modify the definition of “ballast efficiency” if the Secretary determines that the modification is necessary or appropriate to carry out the purposes of this Act. §324
- **FTC Additional Product Category Labeling Regulations:** The Commission may, by regulation, require labeling or other disclosures for any consumer product not specified if the Commission determines that a labeling for the product is likely to assist customers in making purchasing decisions. §325
- **DOE Waste Energy Recovery Grant Program:** The Secretary shall establish a waste energy recovery incentive grant program for owners and operators of projects that produce electricity, utilities purchasing or distributing the electricity, and States. Each grant shall be for a duration of 5 years and be evaluated annually. §451
- **DOE Waste Energy Recovery Grant Program:** The Secretary shall establish rules and guidelines for grants in the waste heat recovery incentive grant program, publicize the availability of the grant program, and award grants based on the merits of each project in recovering and preventing waste energy. §451
- **EPA Healthy High-Performance Schools Annual Report:** The Administrator shall publish and submit to Congress an annual report on all activities carried out under this title until the expiration of authority 5 years after enactment. §461
- **EPA Indoor Environmental Quality in Schools Study:** The Administrator shall enter into an arrangement with the Secretaries of Education and Energy to conduct a study of how sustainable building features affect multiple perceived indoor environmental quality stressors on students in K-12 schools. §462

- **GSA & DOE University Demonstration Project Guidelines:** The GSA Federal Director and the DOE Commercial Director shall establish guidelines to implement a demonstration project to contribute to the research goals of the Office of Commercial High-Performance Green Buildings and the Office of Federal High-Performance Green Buildings. One project shall be selected each fiscal year, 2009 through 2014. §491
- **EPA Grant Program Guidelines:** The Administrator shall provide annual reports to Congress on cost savings achieved and from the grant program established by this Act to provide competitive grants to assist local governments in deploying cost-effective technologies and practices and make any recommendations for further action. §493
- **DOE Advisory Committee on Energy Efficiency Finance:** The Secretary shall establish an Advisory Committee on Energy Efficiency Finance to provide advice and recommendations to the Department on energy efficiency technology finance and investment issues, ideas, and trends. Under this provision, it will terminate on Dec. 19, 2007. §495
- **Architect of the Capitol - Capitol Complex E-85 Refueling Station, Construction & Use:** The Architect of the Capitol may construct a fuel tank and pumping system for E-85 fuel at or within close proximity to the Capitol Grounds Fuel Station. §502
- **Architect of the Capitol - Capitol Power Plant Carbon Dioxide Emissions Feasibility Study and Demonstration Projects:** The Architect of the Capitol shall conduct a feasibility study evaluating the available methods to capture, store, and use carbon dioxide emitted from the Capitol Power Plant as a result of burning fossil fuels. If the feasibility study determines that a demonstration project is technologically feasible and economically justified (including direct and indirect economic and environmental benefits), the Architect of the Capitol may conduct 1 or more demonstration projects to capture and store or use carbon dioxide emitted from the Capitol Power Plant as a result of burning fossil fuels. §505
- **GSA Installation of Photovoltaic System at DOE Headquarters Building:** The Administrator shall install a photovoltaic system, as set forth in the Sun Wall Design Project, for the headquarters building of the Department of Energy (Forrestal Building). §521
- **DOE Thermal Energy Storage Research and Development Program:** The Secretary shall establish a program of research and development to provide lower cost and more viable thermal energy storage technologies to enable the shifting of electric power loads on demand and extend the operating time of concentrating solar power electric generating plants. §602
- **DOE Solar Energy Curriculum Development and Certification Grants:** The Secretary shall establish in the Office of Solar Energy Technologies a competitive grant program to create and strengthen solar industry workforce training and internship programs. §604
- **DOE Solar Energy Curriculum Development and Certification Grants Report:** The Secretary shall make public, on the Department of Energy website or upon request, information on the name and institution for all grants awarded, including a brief description of the project as well as the grant award amount. §604
- **DOE Daylighting Systems and Direct Solar Light Pipe Technology Program:** The Secretary shall establish a research and development program to provide assistance in the demonstration and commercial application of direct solar renewable energy sources to provide alternatives to traditional power generation for lighting and illumination, including light pipe technology, and to promote greater energy conservation and improved efficiency. §605

- **DOE Daylighting Systems and Direct Solar Light Pipe Technology Program Report:** The Secretary shall transmit to Congress and annual report assessing data derived from each project in the direct solar renewable energy sources program and the resulting energy savings. §605
- **DOE Solar Air Conditioning Research and Development Program:** The Secretary shall establish and RD&D program to promote less costly and more reliable decentralized distributed solar-powered air conditioning for individuals and businesses. §606
- **DOE Photovoltaic Demonstration Program Report:** The Secretary shall report to Congress 5 years after program grant funds are first distributed to the States. The report will cover the amount of photovoltaics demonstrated; the number of projects undertaken, the administrative costs; demonstration results monitored; and the total amount of funds distributed by State. §607
- **DOE Hydrothermal Research and Development Program Support:** The Secretary shall support a program of RD&D and commercial application to expand the use of geothermal energy production from hydrothermal systems, advanced hydrothermal resource tools, and industry coupled exploratory drilling. §613
- **DOE General Geothermal Systems Research and Development Program Support:** The Secretary shall support a program of RD&D and commercial application of components and systems capable of withstanding extreme geothermal environments and necessary to cost-effectively develop, produce, and monitor geothermal reservoirs and produce geothermal energy. §614
- **DOE General Geothermal Systems Research and Development Modeling:** The Secretary shall support a program of RD&D and commercial application of models of geothermal reservoir performance. §614
- **DOE General Geothermal Systems Environmental Impacts Program Support:** The Secretary shall support programs of (1) RD&D and commercial application of technologies and practices designed to mitigate or preclude potential environmental impacts (2) research to compare potential environmental impacts with the potential emission reductions of greenhouse gases gained by geothermal energy and (3) in conjunction with the EPA's Assistant Administrator for Research and Development, that identify and addresses potential environmental impacts including the effects on groundwater and local hydrology. §614
- **DOE Enhanced Geothermal Systems Research and Development Program Support:** The Secretary shall support a program of RD&D and commercial application for enhanced geothermal systems including enhanced geothermal systems technologies and reservoir stimulation. §615
- **DOE Geothermal Energy Production From Oil and Gas Fields and Recovery and Production of Geopressured Gas Resources Program:** The Secretary shall establish a program of RD&D and commercial application to support development of geothermal energy production from oil and gas fields and production and recovery of energy, including electricity, from geopressured resources. The Secretary shall also implement a grant program in support of geothermal energy production from oil and gas fields. §616
- **DOE Geopressured Gas Resource Recovery and Production Program:** The Secretary shall implement a program to support the RD&D, and commercial application of cost-effective techniques to produce energy from geopressured resources. Activities include soliciting preliminary engineering designs and awarding of grants. §617

- **DOE Center for Geothermal Technology Transfer:** The Secretary shall award to an institution of higher education (or consortium thereof) a grant to establish a Center for Geothermal Technology Transfer. §618
- **DOE International Geothermal Energy Development Support and Promotion:** The Secretary, in coordination with other appropriate Federal and multilateral agencies (including USAID) shall support international collaborative efforts to promote the RD&D of geothermal technologies used to develop hydrothermal and enhanced geothermal system resources. §624
- **DOE Marine and Hydrokinetic Renewable Energy Research and Development Program:** The Secretary, in consultation with the Secretary of Commerce, acting through the Undersecretary of Commerce for Oceans and Atmosphere, shall establish a program of RD&D, and commercial application to expand marine and hydrokinetic renewable energy production. §633
- **DOE National Marine Renewable Energy Research, Development, and Demonstration Centers:** The Secretary shall award grants to institutions of higher education (or consortia thereof) for the establishment of 1 or more National Marine Renewable Energy Research, Development, and Demonstration Center. §634
- **DOE Energy Storage Competitiveness Program:** The Secretary shall carry out a RD&D program to conduct basic and applied research in order to support the ability of the U.S. to remain globally competitive in energy storage systems for electric drive vehicles, stationary applications, and electricity transmission and distribution. §641
- **DOE Energy Storage Research Centers:** The Secretary shall establish, through competitive bids, not more than 4 energy storage research centers to translate basic research into applied technologies to advance the capability of the U.S. to maintain a globally competitive posture in energy storage systems for electric drive vehicles, stationary applications, and electricity transmission and distribution. §641
- **DOE Energy Storage Systems Demonstration Program:** The Secretary shall carry out a program on new demonstrations of advanced energy storage systems. §641
- **DOE Vehicle Energy Storage Demonstration Program:** The Secretary shall carry out a program of electric drive energy storage technology demonstrations. §641
- **DOE Commercial Insulation Demonstration Program:** The Secretary, if it is determined in the demonstration report that the implementation of advanced insulation into covered refrigeration units would generate an economically justifiable amount of cost savings, shall in cooperation with manufacturers, shall establish a demonstration program to demonstrate the cost-effectiveness of advanced insulation. §652
- **DOE Renewable Energy Innovation Manufacturing Partnership Program:** The Secretary shall carry out a program, to be known as the Renewable Energy Innovation Manufacturing Partnership Program, to make assistance awards to eligible entities for use in carrying out RD&D relating to the manufacturing of renewable technologies. §656
- **DOE Carbon Capture and Sequestration Research, Development, and Demonstration Program:** The Secretary shall carry out fundamental science and engineering research (including laboratory-scale experiments, numeric modeling, and simulations) to develop and document the performance of new approaches to capture and sequester, or use carbon dioxide to lead to an overall reduction of carbon dioxide emissions. §702

- **DOE Carbon Capture and Sequestration Large-Scale Testing:** The Secretary shall conduct not less than seven initial large-scale sequestration tests, not including the FutureGen project, for geologic containment of carbon dioxide to collect and validate information on the cost and feasibility of commercial deployment of technologies for geologic containment of carbon dioxide. These seven tests may include any Regional Partnership awarded. §702
- **DOE Carbon Capture Program:** The Secretary shall establish and carry out a program to demonstrate technologies for the large-scale capture of carbon dioxide from industrial sources. The Secretary shall award and select, as appropriate, a diversity of capture technologies to address the need to capture carbon dioxide from a range of industrial sources. §703
- **DOE Geologic Sequestration Training and Research Study:** The Secretary shall enter into an arrangement with the National Academy of Sciences to undertake a study that (1) defines an interdisciplinary program; (2) addresses undergraduate and graduate education to help develop graduate level programs; (3) develops guidelines for proposals from colleges and universities with substantial capabilities and disciplines seeking to implement programs; and (4) outlines budget and recommendations for funding needed to establish and carry out related grant programs. §705
- **DOE Geologic Sequestration Training and Research Grant Program:** The Secretary shall establish a competitive grant program through which colleges and universities may apply for and receive four-year grants for salary and startup costs for newly designated faculty positions in an integrated geologic carbon sequestration science program; and internships for graduate students in geologic sequestration science. §705
- **EPA Public Health, Safety, and Environmental Impact Program:** The Administrator shall conduct a research program to address public health, safety, and environment impacts that may be associated with capture, injection, and sequestration of greenhouse gases in geologic reservoirs. §707
- **DOE University Based Research and Development Grant Program:** The Secretary, in consultation with other appropriate agencies, shall establish a university based R&D program to study carbon capture and sequestration using various types of coal. §708
- **DOI Federal Coordination on Carbon Dioxide Sequestration Capacity Assessment Methodology Development:** To ensure maximum usefulness and success of the assessment, the Secretary shall consult and cooperate with the DOE Secretary and the EPA Administrator on issues of data sharing, format, development of the methodology, and content of the assessment. §711
- **DOI State Coordination on Carbon Dioxide Sequestration Capacity Assessment Methodology Development:** To ensure maximum usefulness and success of the assessment, the Secretary shall consult and State geological surveys and other relevant entities. §711
- **DOI Carbon Dioxide Sequestration Capacity Assessment Methodology Development External Review, Publication, and Updates:** On completion of the carbon dioxide sequestration capacity assessment methodology, the Secretary shall (1) publish the methodology and solicit comments from the public and heads of affected Federal and State agencies and establish a review panel. On completion of the review, the Secretary shall publish the revised final methodology in the Federal Register. The final methodology shall be updated periodically (including at least once every five years) to incorporate new data as the data becomes available. §711
- **DOI Carbon Dioxide Sequestration Capacity National Assessment:** Not later than two years after the date of publication of the assessment methodology, the Secretary, in consultation with the DOE Secretary and State geological surveys, shall complete a national assessment of capacity from carbon

dioxide in accordance with the final published methodology. As part of the assessment the Secretary shall carry out geological verification through a drilling program, and partner with other drilling programs. §711

- **DOI Carbon Dioxide Sequestration Capacity National Assessment:** Not later than 180 days after the date on which the assessment is completed, the Secretary, shall submit to the Committee on Energy and Natural Resources of the Senate and the Committee on Natural Resources of the House of Representatives a report describing the findings under the assessment. The national assessment shall be updated periodically (including at least once every five years) to support public and private sector decision-making. §711
- **DOI National Assessment of Carbon Sequestration and Methane and Nitrous Oxide Emissions From Ecosystems:** Not later than 2 years after the date on which the final methodology is published under subsection (f)(3)(D), the Secretary shall complete a national assessment of (1) the quantity of carbon stored in and released from ecosystems; and the annual flux of covered greenhouse gases in and out of ecosystems. §712
- **DOI National Assessment of Carbon Sequestration and Methane and Nitrous Oxide Emissions From Ecosystems Methodology Development External Review and Publication:** On completion of a proposed methodology, the Secretary shall solicit comments from the public and Federal and State agencies (at least 60 days prior to the date on which the final methodology is to be published), and publish the proposed methodology. The Secretary shall also establish a panel to review both the published methodology and any comments received. §712
- **DOI National Assessment of Carbon Sequestration and Methane and Nitrous Oxide Emissions From Ecosystems Methodology Development Estimate and Report:** The Secretary shall, based on the assessment, prescribe the data and information, and analysis needed to establish a scientifically sound estimate of the carbon sequestration capacity of relevant ecosystems; and not later than 180 days after the date on which the assessment is completed, submit a report to the heads of applicable Federal agencies and the appropriate committees of Congress a report that describes the results of the assessment. §712
- **DOI National Assessment of Carbon Sequestration and Methane and Nitrous Oxide Emissions from Ecosystems Methodology Development Data and Results Availability:** On completion of the assessment, the Secretary shall incorporate the results of the assessment into a web-accessible database for public use. §712
- **DOI Carbon Dioxide Sequestration Inventory Records Maintenance:** The Secretary, acting through the Bureau of Land Management, shall maintain records on, and an inventory of, the quantity of carbon dioxide stored within Federal mineral leaseholds. §713
- **DOE Improved Management of Energy Policy National Media Campaign:** The Secretary, acting through the Assistant Secretary for Energy Efficiency and Renewable Energy shall develop and conduct a national media campaign to increase energy efficiency throughout the economy of the United States during the 10-year period beginning on the date of enactment of this act; to promote the national security benefits associated with increased energy efficiency; and to decrease oil consumption in the United States during the 10-year period beginning on the date of enactment of this act. §801
- **DOE Improved Management of Energy Policy National Media Campaign Reports to Congress :** The Secretary shall annually submit to Congress a report that describes the strategy of the national media campaign and whether specific objectives of the campaign were accomplished, including:

determinations concerning the rate of change of energy consumption; an evaluation that enables consideration of whether the media campaign contributed to reduction of energy consumption; steps taken to ensure that the national media campaign operates in an effective and efficient manner consistent with the overall strategy and focus of the campaign; plans to purchase advertising time and space; policies and practices implemented to ensure that Federal funds are used responsibly; and all contracts or cooperative agreements entered into with a corporation, partnership, or individual working on behalf of the national media campaign. §801

- **EIA Assessment of Resources Establishment of 5-Year Plan:** The Administrator of the EIA shall establish a 5- year plan to enhance the quality and scope of the data collection necessary to ensure the scope, accuracy, and timeliness of the information needed for efficient functioning of energy markets and related financial operations. The Administrator shall submit to Congress the 5-year plan including a description of any improvements needed to enhance the ability of the Administrator to collect and process energy information in a manner consistent with the needs of the energy markets. §805
- **EIA Assessment of Resources Consultation:** The Administrator shall consult with State officials and the FERC on a regular basis in establishing guidelines and determining scope of State-level data and exploring ways to address data needs. §805
- **EIA Geothermal Assessment Update:** At least once every 10 years, the Secretary shall update the national assessment to support public and private sector decision making. §810
- **DOE U.S.-Israeli Renewable Energy Grant Program:** The Secretary shall establish a grant program to support research, development, and commercialization of renewable energy or energy efficiency and an advisory board to monitor the method by which grants are awarded. Not later than 180 days after the date of completion of a project for which a grant has been awarded, the grant recipient shall submit a report to the Secretary describing the use of the grant funds and an evaluation of the success of the project. The grant program shall terminate 7 years after enactment of this Act. §917
- **International Clean Energy Foundation:** Shall be established to serve long-term foreign policy and energy security goals of reducing global greenhouse gas emissions by making grants to promote projects outside the U.S. that serve as models for reducing emissions through the use of clean, efficient technologies. The Foundation will report to an advisory board composed of the Secretary of State, Secretary of Energy, Administrator of USAID, and four other individuals with relevant experience appointed by the President with the consent of the Senate. The Foundation shall submit a report to Congress on implementation not later than March 31, each year beginning in 2008. §922-924
- **DOE Supplementary Compensation for Nuclear Damage Cost Allocation Regulations:** The Secretary or the Nuclear Regulatory Commission may prescribe regulations to carry out §170 of the Atomic Energy Act of 1954 and §934 of EISA of 2007 to ensure that implementation of the two Acts is consistent, the financial and operational burden on a Commission licensee in complying with §170 is not great as a result of §934. §934
- **DOE National Research Program:** The Secretary, acting through the Bureau of Labor Statistics, shall collect and analyze labor market data and track workforce trends resulting from energy related initiatives. This shall include: tracking and documentation of academic and occupational competencies, defining future skill needs with respect to energy efficiency and renewable energy, collaborating with State agencies to disseminate information on successful innovations for labor market service, serving as a clearinghouse for best practices in workforce development, encouraging the establishment of workforce training initiatives, linking research and development in renewable

energy and energy efficiency technology, assessing new employment and providing technical assistance and capacity building to National and State energy partnerships. §1002

- **DOE Energy Efficiency and Renewable Energy National Energy Training Partnerships Grants:** The Secretary shall award National Energy Training Partnerships Grants on a competitive basis to eligible entities to enable such entities to carry out training that leads to economic self-sufficiency and to develop an energy efficiency and renewable energy industries workforce. Grants shall be awarded to ensure geographic diversity with at least 2 grants awarded to entities located in each of the 4 Petroleum Administration for Defense Districts with no sub districts, and at least 1 grant awarded to an entity located in each of the sub districts of the Petroleum Administration for Defense District with subdistricts. §1002
- **DOE Energy Efficiency and Renewable Energy State Labor Market Research, Information, and Labor Exchange Research Program:** The Secretary shall award competitive grants to States to enable such States to administer labor market and labor exchange information programs that include the implementation of activities, in coordination with the one-stop delivery system. §1002
- **DOE Energy Efficiency and Renewable Energy State Energy Training Partnership Program:** The Secretary shall award competitive grants to States to enable such States to administer renewable energy and energy efficiency workforce development programs that include the implementation of the following activities: the identification of job openings in the renewable energy and energy efficiency sector, the administration of skill and aptitude testing and assessment for workers, and the counseling, case management, and referral of qualified job seekers to openings and training programs, including energy efficiency and renewable energy training programs. §1002
- **DOE Pathways Out of Poverty Demonstration Program:** The Secretary shall award competitive grants of sufficient size to eligible entities to enable such entities to carry out training that leads to economic self-sufficiency. The Secretary shall give priority to entities that serve individuals in families with income of less than 200 percent of the sufficiency standard for the local areas where the training is conducted that specifies, as defined by the State, or where such standard is not established, the income needs of families, by family size, the number and ages of children in the family, and sub-State geographical considerations. Grants shall be awarded to ensure geographic diversity. §1002
- **DOE Energy Efficiency and Renewable Energy Programs Collection of Data:** The Secretary shall assist grantees in the collection of data by making available, where practicable, low-cost means of tracking the labor market outcomes of participants, and by providing standardized reporting forms, where appropriate. §1002
- **SBA Establishment of Pilot Program for Reduced 7 (a) Fees for Purchase of Energy Efficient Technologies:** The SBA shall establish and carry out a pilot program under which the Administrator shall reduce the fees for covered energy efficiency loans. The pilot program shall terminate at the end of the second full fiscal year after the date that the administrator establishes the pilot program. §1202
- **Administrator GAO Report:** Not later than 1 year after the pilot program terminates, the Comptroller General of the United States shall submit to the Committee on Small Business of the House of Representatives and the Committee on Small Business and Entrepreneurship of the Senate a report on the pilot program. §1202
- **Small Business Administrator Establishment of Small Business Sustainability Initiative:** The SBA shall establish a Small Business Energy Efficiency Program to provide energy efficiency assistance to small business concerns through small business development centers. The administrator shall enter into agreements with small business development centers. §1203

- **Small Business Administrator Energy Efficiency Program Reports:** Each small business development center participating in the Efficiency Program shall submit to the Administrator of the EPA an annual report that includes: a summary of the energy efficiency assistance provided by that center under the program, the number of small business concerns, statistics on the total amount of energy saved as a result of assistance provided under the program, and any additional information determined necessary by the Administrator, in consultation with the association. §1203
- **Small Business Administrator Energy Efficiency Program Reports to Congress:** Within 60 days after the program reports are submitted, the Administrator shall submit to the Committee on Small Business and Entrepreneurship of the Senate and the Committee on Small Business of the House of Representatives a report summarizing the information regarding the Efficiency Program submitted by small business development centers participating in that program. §1203
- **Small Business Administrator Energy Efficiency Program Grants:** Each small business development center selected to participate in the Efficiency Program shall be eligible to receive a grant in an amount equal to (A) not less than \$100,000 in each fiscal year; and (B) not more than \$300,000 in each fiscal year. §1203
- **Comptroller General of the United States Energy Efficiency Program Evaluation and Report:** The Comptroller General of the United States shall not later than 30 months after the date of disbursement of the first grant under the Efficiency Program, initiate an evaluation of that program; and not later than 6 months after the date of the initiation of the evaluation submit to the Administrator, the Committee on Small Business and Entrepreneurship of the Senate, and the Committee on Small Business of the House of Representatives, a report containing the results of the evaluation, any recommendations regarding whether the program should be extended, with or without modification to include all small business development centers. §1203
- **Small Business Administrator Energy Efficiency Telecommuting Pilot Program:** The Administrator shall conduct in no more than 5 of the regions of the Administration, a pilot program to provide information regarding telecommuting to employers that are small business concerns and to encourage such employers to offer telecommuting options to employees, with special outreach to individuals with disabilities. §1203
- **Small Business Administrator Telecom Pilot Report to Congress:** Within 2 years after the date on which funds are first appropriated to carry out the Pilot Program , the Administrator shall transmit to the Committee on Small Business and Entrepreneurship of the Senate and the Committee on Small Business of the House of Representatives a report containing the results of an evaluation of the Telecommuting Pilot Program and any recommendations regarding whether the pilot program, with or without modification, should be extended to include the participation of all regions of the Administration. §1203
- **Small Business Administrator Energy Efficiency Program Consultation:** The Administrator shall consult with the heads of other Federal departments and agencies in determining whether priority has been given to small business concerns that participate in or conduct energy efficiency or renewable system research and development projects. §1203
- **Small Business Administrator Energy Efficiency Program Guidelines:** The Administrator shall as soon as practicable after the consultation issue guidelines and directives to assist Federal agencies in meeting the requirements. §1203
- **Small Business Administrator Renewable Fuel Capital Investment Program Establishment:** The Administrator shall establish a Renewable Fuel Capital Investment Program under which the

Administrator may enter into participation agreements for purposes in section 382; and guarantee the debentures issued by Renewable Fuel Capital Investment companies. §1207

- **Small Business Administrator Selection of Renewable Fuel Capital Investment Companies:** The Administrator shall grant final approval to the applicant to operate as a Renewable Fuel Capital Investment company and designate the applicant as such a company, if the applicant satisfies the requirements on or before the expiration of the time period and enters into a participation agreement with the Administrator; or if the applicant fails to satisfy the requirements on or before the expiration of the time period described, revoke the conditional approval granted. §1207
- **Small Business Administrator Renewable Fuel Capital Investment Companies Issuance and Guarantee of Trust Certificates:** The Administrator may issue trust certificates representing ownership of all or a fractional part of debentures issued by a Renewable Fuel Capital Investment company and guaranteed by the Administrator, if such certificates are based on and backed by a trust or pool approved by the Administrator and composed solely of guaranteed debentures. §1207
- **Small Business Administrator Renewable Fuel Capital Investment Companies Operational Assistance Grants:** The Administrator may make grants to Renewable Fuel Capital Investment companies to provide operational assistance to smaller enterprises financed, or expected to be financed, by such companies or other entities. §1207
- **DOE Program on Power Grid Digital Information Technology:** : In consultation with the FERC and other appropriate agencies, electric utilities, the States, and other stakeholders, DOE shall carry out a program to develop advanced technology research, development, and demonstration of power grid digital information technology. §1304
- **DOE Smart Grid Regional Demonstration Initiative:** The Secretary of Energy shall establish a smart grid regional demonstration initiative composed of demonstration projects specifically focused on advanced technologies for use in power grid sensing, communications, analysis, and power flow control. DOE shall also seek to leverage existing smart grid deployments. §1304

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Edison Electric Institute (EEI) is the association of U.S. shareholder-owned electric companies, international affiliates, and industry associates worldwide. Our U.S. members serve 97 percent of the ultimate customers in the shareholder-owned segment of the industry, and 71 percent of all electric utility ultimate customers in the nation. They generate almost 60 percent of the electricity produced by U.S. electric generators.

Contact Us: If you have questions about the timelines, please contact Joanne Hopkins at jhopkins@eei.org.