



## Comparison of American Recovery and Reinvestment Act

Summary based on text of H.R. 1 the House Economic Recovery and Reinvestment Act as passed on January 26, 2009 by the House of Representatives and the United States Senate on February 13, 2009.

Provision	House-Passed Version	Senate-Passed Version	H.R. 1 Conference Report
<b>Broad Energy Programs</b>			
State Energy Program	<ul style="list-style-type: none"> <li>➤ \$3.4 billion for the Department of Energy's (DOE) State Energy Program (SEP), which provides grants and funding to state energy offices for energy efficiency and renewable energy programs Authorized under Part D of Title III of the Energy Policy and Conservation Act. States must prioritize existing programs when using these funds.</li> </ul>	<ul style="list-style-type: none"> <li>➤ \$500 million for SEP, which provides grants and funding to state energy offices for energy efficiency and renewable energy programs</li> </ul>	<ul style="list-style-type: none"> <li>➤ \$3.1 billion for the Department of Energy's (DOE) State Energy Program (SEP), which provides grants and funding to state energy offices for energy efficiency and renewable energy programs conditioned on state Governors making assurances regarding regulatory policies, building code requirements and the prioritization of existing state programs. Authorized under Part D of Title III of the Energy Policy and Conservation Act.</li> </ul>
Energy Efficiency and Conservation Block Grant Program	<ul style="list-style-type: none"> <li>➤ \$3.5 billion to DOE to assist state and local governments in implementing energy efficiency and conservation programs</li> </ul>	<ul style="list-style-type: none"> <li>➤ \$4.2 billion to assist local governments in implementing energy efficiency and conservation programs Authorized in Title V of EISA. Of which:               <ul style="list-style-type: none"> <li>• \$2.1 billion is awarded based on existing</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>➤ \$3.2 billion to assist local governments in implementing energy efficiency and conservation programs Authorized in Title V of EISA. Of which:               <ul style="list-style-type: none"> <li>• \$2.8 billion is awarded based on existing formula</li> </ul> </li> </ul>

	Authorized in Title V of EISA	<p>formula</p> <ul style="list-style-type: none"> <li>• \$2.1 billion is awarded on a competitive basis to states where the Governor certifies to DOE the state's regulatory authority will implement utility regulatory reforms and that the Governor will take all actions, within his/her authority, to implement more stringent building codes.</li> </ul>	➤ \$400 million is awarded on a competitive basis
Loan Guarantees	➤ \$8 billion for the Innovative Technology and Loan Guarantee Program, which supports commercial use of advanced technologies to avoid and lower air pollutants, greenhouse gases, etc. Authorized under Title XVII of EFACT05	➤ \$8.5 billion for the Innovative Technology and Loan Guarantee Program for renewable energy systems and electric power transmission systems. Authorized under Title XVII of EFACT05	➤ \$6 billion for the Innovative Technology and Loan Guarantee Program, which supports commercial use of advanced technologies to avoid and lower air pollutants, greenhouse gases, etc. Authorized under Title XVII of EFACT05
Research, Development, Demonstration, and Deployment (ARPA-E)	➤ \$2 billion for energy efficiency and renewable energy research, development, demonstration and deployment	➤ \$2.6 billion for energy efficiency and renewable energy R&D. Of which <ul style="list-style-type: none"> <li>• DOE is encouraged to fund the energy-intensive industries program authorized in Section 452 of EISA, including assessments through</li> </ul>	➤ \$400 million for the Advanced Research Projects Agency-Energy. Authorized under Section 5012 of the America Competes Act.

	<p>activities including advanced batteries</p> <ul style="list-style-type: none"> <li>• \$800 million for biomass research</li> <li>• \$400 million for geothermal research</li> </ul> <p>➤ \$400 million for the Advanced Research Projects Agency-Energy. Authorized under Section 5012 of the America Competes Act. Of this amount:</p> <ul style="list-style-type: none"> <li>• \$100 million shall be used for advanced scientific computing</li> </ul>	<p>Industrial Assessment Centers (IAC)</p>	
<p>Green Jobs</p>	<p>➤ \$500 million for research, labor exchange and job training projects to prepare workers for careers in energy efficiency and renewable energy industries. Authorized by Section 171(e)(1)(B)(ii) of the Workforce</p>	<p>➤ \$250 million for research, labor exchange and job training projects to prepare workers for careers in energy efficiency and renewable energy industries. Authorized by Section 171(e)(1)(B)(ii) of the Workforce Investment Act.</p> <p>➤ Up to \$24 million provided for Job Corps Centers, which may include training for careers in energy efficiency</p>	<p>➤ \$500 million for research, labor exchange and job training projects to prepare workers for careers in energy efficiency and renewable energy industries. Authorized by Section 171(e)(1)(B)(ii) of the Workforce Investment Act</p> <p>➤ Up to \$37.5 million provided for Job Corps Centers, which may include training for careers in energy efficiency</p>

	<p>Investment Act.</p> <ul style="list-style-type: none"> <li>➤ \$300 million for the Office of Job Corps, which can be used for additional training for careers in energy efficiency.</li> </ul>		
<b>Buuildings, Appliances, Electricity, Industry, and Agriculture</b>			
Green Schools	<ul style="list-style-type: none"> <li>➤ \$14 billion for school repair, of which 25% must be used for public schools modernization , renovation, or repairs</li> </ul>		<ul style="list-style-type: none"> <li>➤ \$9.75 billion for public safety and other government services, which may include assistance for elementary and secondary education and public institutions of higher education, and for modernization, renovation or repair of public school facilities and public institutions of higher education facilities, including modernization, renovation, and repairs that are consistent with a recognized green building rating system</li> </ul>
Federal Buildings	<ul style="list-style-type: none"> <li>➤ \$6 billion to GSA for measures to convert GSA facilities to High-Performance Green Buildings.</li> <li>➤ \$1.7 billion for Department of Defense energy efficiency projects and modernization of facilities</li> </ul>	<ul style="list-style-type: none"> <li>➤ \$3.2 billion for Department of Defense (DOD) energy efficiency projects and modernization of facilities.</li> <li>➤ \$200 million for research, development, test and evaluation, defense-wide for rapid technology transitions and the demonstration of energy efficiency technologies in military installations.</li> <li>➤ \$250 million for investment in energy efficiency within Defense Health facilities.</li> <li>➤ \$2.5 billion to GSA for measures to convert GSA facilities to High-Performance Green Buildings. Of this</li> </ul>	<ul style="list-style-type: none"> <li>➤ \$3.6 billion for Department of Defense energy efficiency projects and modernization of facilities</li> <li>➤ \$4.5 billion to GSA for measures to convert GSA facilities to High-Performance Green Buildings.</li> <li>➤ \$400 million to establish the Office of Federal High Performance Green Buildings</li> <li>➤ \$75 million for Defense-Wide funding of research, development, text and evaluation projects, including pilot projects, demonstrations, and energy efficiency manufacturing enhancements</li> </ul>

		<p>amount:</p> <ul style="list-style-type: none"> <li>• \$4 million is to establish the Office of Federal High Performance Green Buildings</li> </ul> <p>➤ \$323 million for energy-related construction at the Department of Veterans Affairs medical facilities</p>	
Energy Sustainability and Efficiency Grants and Loans for Institutions	<p>➤ \$1 billion for implementing or improving sustainable energy infrastructure at facilities that produce electricity from renewable sources, CHP, waste heat recycling or natural sources of thermal energy. Authorized in Section 471 of EISA.</p> <p>➤ \$500 million for loan guarantees to institutions to improve energy efficiency. Authorized under Section 399A of the Energy Policy and Conservation Act.</p> <p>➤ \$1.5 billion for grants and loans to institutions for</p>	<p>➤ \$1.6 billion for grants to make schools and hospitals more energy efficient. Authorized under Section 399A of the Energy Policy and Conservation Act.</p>	

	energy sustainability and efficiency recovery funding		
Weatherization Assistance Program (WAP)	<ul style="list-style-type: none"> <li>➤ \$6.2 billion for weatherization of low-income family homes. Authorized in Title IV, Part A of the Energy and Conservation and Production Act, Public Law 94-385.</li> </ul>	<ul style="list-style-type: none"> <li>➤ \$2.9 billion for weatherization of low-income family homes. Authorized in Title IV, Part A of the Energy and Conservation and Production Act, Public Law 94-385.</li> </ul>	<ul style="list-style-type: none"> <li>➤ \$5 billion for weatherization of low-income family homes. Authorized in Title IV, Part A of the Energy and Conservation and Production Act, Public Law 94-385.</li> </ul>
Assisted Housing	<ul style="list-style-type: none"> <li>➤ \$2.5 billion for energy retrofit investment grants and loans for owners who receive project-based assistance under the Section 811, Section 202 programs and Section 8 programs.</li> <li>➤ \$1 billion for the Public Housing Capitol Fund to fund improvements in energy efficiency, reduce energy costs, or preserve and improve units with good access to public transportation</li> <li>➤ \$1.5 billion for the HOME</li> </ul>	<ul style="list-style-type: none"> <li>➤ \$118 million for grants or loans to owners of Department of Housing and Urban Development (HUD) assisted housing for green retrofits. In order for owners to participate in energy retrofit program, they must agree to a 15-year additional period of affordability.</li> <li>➤ \$250 million for the HOME Investment Partnerships Program, of which up to 20% can be allocated specifically for energy efficiency and green technologies</li> <li>➤ \$2 billion for the Public Housing Capitol Fund to fund investments in renovations and energy conservation retrofit investments that leverage private sector funding or financing for renovations</li> <li>➤ \$510 million for Native American housing block grants to rehabilitate and improve energy efficiency</li> </ul>	<ul style="list-style-type: none"> <li>➤ \$2.25 billion for energy retrofit investment grants and loans for owners who receive project-based assistance for the Section 8 Project-Based program. Of this amount, \$250 million will support a program to upgrade HUD sponsored low-income housing to increase energy efficiency.</li> <li>➤ \$1 billion from the Public Housing Capitol Fund funding to fund improvements in energy efficiency, including investments that leverage private sector funding or financing for renovations and energy conservation retrofit investments</li> <li>➤ \$2.25 billion for the HOME Investment Partnerships Program to help build and rehabilitate low-income housing, including the use of green technologies</li> <li>➤ \$500 million for Native American housing block grants to rehabilitate and improve energy efficiency</li> <li>➤ \$510 million for Native American housing block grants, to include improvements in energy efficiency</li> </ul>

	<p>Investment Partnerships Program to help build and rehabilitate low-income housing, including the use of green technologies</p> <ul style="list-style-type: none"> <li>➤ \$500 million for Native American housing block grants to rehabilitate and improve energy efficiency</li> </ul>		
Electricity Grid	<ul style="list-style-type: none"> <li>➤ \$11 billion for research and development, pilot projects, and federal matching funds for the Smart Grid Investment Program to modernize the electricity grid. Authorized under Title XIII of EISA.</li> </ul>	<ul style="list-style-type: none"> <li>➤ \$11 billion for research and development, pilot projects, and federal matching funds for the Smart Grid Investment Program to modernize the electricity grid. Authorized under Title XIII of EISA.</li> </ul>	<ul style="list-style-type: none"> <li>➤ \$4.5 billion for research and development, pilot projects, and federal matching funds for the Smart Grid Investment Program to modernize the electricity grid. Authorized under Title XIII of EISA.</li> <li>➤ \$3.25 billion for the Bonneville Power Administration</li> <li>➤ \$3.25 billion for the Western Area Power Administration</li> </ul>
Energy Efficient Appliance Rebate Programs	<ul style="list-style-type: none"> <li>➤ \$300 million for the Energy Star Program and for matching grants for state rebates to consumers for buying energy efficient Energy Star products to replace old appliances. Authorized under Section</li> </ul>		<ul style="list-style-type: none"> <li>➤ \$300 million for the Energy Star Program and for matching grants for state rebates to consumers for buying energy efficient Energy Star products to replace old appliances. Authorized under Section 124 of the Energy Policy Act of 2005 (EPACT05), or for the Energy Star Program.</li> </ul>

	124 of the Energy Policy Act of 2005 (EPACT05), or for the Energy Star Program.		
Waste Energy and Combined Heat and Power (CHP)	➤ \$500 million for the Waste Energy Recovery Incentive Grant Program, which provides incentive grants to owners and operators of projects that either produce electricity or incremental useful thermal energy through waste energy recovery. Authorized in Section 451 of EISA		
Rural Energy for America Program (REAP)		➤ \$50 million to be spent over two years for loans and grants to promote energy efficiency and renewable energy development for agricultural producers and rural small businesses. Authorized under Section 9007 of the Farm Bill of 2002.	
<b>Transportation</b>			
Public Transportation and Rail	➤ \$12 billion for investments in public transportation <ul style="list-style-type: none"> <li>• \$2.5 billion in grants for new or in-progress light rail</li> </ul>	➤ \$8.4 billion in grants for public transit investments <ul style="list-style-type: none"> <li>➤ \$2 billion for investments in high speed rail corridors</li> <li>➤ \$5.5 billion for grants to states for investments in transportation</li> </ul>	➤ \$14.9 for investments in public transit, of which: <ul style="list-style-type: none"> <li>• \$8 billion for capital assistance for high-speed rail corridors and Intercity Passenger Rail Service</li> <li>• \$6.9 billion for transit capital assistance, of which: <ul style="list-style-type: none"> <li>○ \$100 million is for</li> </ul> </li> </ul>



	<p>systems</p> <ul style="list-style-type: none"> <li>• \$2 billion for modernization of existing transit systems</li> <li>• \$7.5 billion for new equipment and improvements to existing facilities</li> </ul> <p>➤ \$1.1 billion in Amtrak and Intercity Passenger Rail Construction Grants to improve speed and capacity</p>	infrastructure	<p>public transit agencies for capital investments that will assist in reducing the energy consumption or greenhouse gas emissions of their public transportation systems</p> <p>➤ \$1.5 billion in grants for state governments, local governments and transit agencies, for capital investments in surface transportation infrastructure, including New Starts and Small Starts projects and passenger and freight rail transportation projects, as well as highway and bridge projects</p> <p>➤ \$1.3 billion for Amtrak, of which:</p> <ul style="list-style-type: none"> <li>• \$450 billion for capital security grants</li> </ul>
Advanced Batteries	<p>➤ \$1 billion for the expenses for the manufacturing of advanced batteries. Authorized under Section 136(b)(1)(B) of EISA.</p> <p>➤ \$1 billion for loan guarantees for advanced battery manufacturing plants. Authorized under Section 135 of EISA.</p>	<p>➤ \$2 billion for grants to assist U.S. companies in the manufacturing of advanced battery systems and components, including funding awards to manufacturers of advanced battery systems and vehicle batteries, including advanced lithium ion batteries, hybrid electrical systems, component manufacturers, and software designers.</p>	<p>➤ \$2 billion for grants to assist U.S. companies in the manufacturing of advanced battery systems and components, including funding awards to manufacturers of advanced battery systems and vehicle batteries, including advanced lithium ion batteries, hybrid electrical systems, component manufacturers, and software designers.</p>
Plug-in Electric Vehicles	<p>➤ \$200 million for the Plug-In Electric Drive Vehicle</p>	<p>➤ \$200 million for the Plug-In Electric Drive Vehicle Program, which provides grants to state and local</p>	<p>➤ \$400 million for the Plug-In Electric Drive Vehicle Program, which provides grants to state and local governments and</p>

	<p>Program, which provides grants to state and local governments and others to carry out projects to encourage the use of plug-in electric drive vehicles. Authorized under Section 131 of EISA</p>	<p>governments and others to carry out projects to encourage the use of plug-in electric drive vehicles. Authorized under Section 131 of EISA</p>	<p>others to carry out projects to encourage the use of plug-in electric drive vehicles. Authorized under Section 131 of EISA</p>
<p>Alternative Transportation Grants and Programs</p>	<ul style="list-style-type: none"> <li>➤ \$400 million for assistance to state and local governments to acquire efficient alternative fuel vehicles. Authorized under Section 721 of the EPACT05.</li> <li>➤ \$300 million for grants to state and local governments to reduce diesel emissions. Authorized under Title VII, Subtitle G of the EPACT05</li> </ul>	<ul style="list-style-type: none"> <li>➤ \$350 million for assistance to state and local governments to acquire efficient alternative fuel vehicles. Authorized under Section 721 of the EPACT05</li> </ul>	<ul style="list-style-type: none"> <li>➤ \$300 million for assistance to state and local governments to acquire efficient alternative fuel vehicles. Authorized under Section 721 of the EPACT05.</li> <li>➤ \$300 million for grants to state and local governments to reduce diesel emissions. Authorized under Title VII, Subtitle G of the EPACT05</li> </ul>
<p>Federal Fleet</p>	<ul style="list-style-type: none"> <li>➤ \$600 million for GSA's Motor Vehicle Acquisition and Motor Vehicle Leasing program, in order to replace the Federal fleet with more</li> </ul>	<ul style="list-style-type: none"> <li>➤ \$300 million for GSA's Motor Vehicle Acquisition and Motor Vehicle Leasing program, in order to replace the Federal fleet with more efficient vehicles.</li> </ul>	<ul style="list-style-type: none"> <li>➤ \$300 million for GSA's Motor Vehicle Acquisition and Motor Vehicle Leasing program, in order to replace the Federal fleet with more efficient vehicles.</li> </ul>

	efficient vehicles.		
<b>Tax Provisions</b>			
Existing Homes Tax Credit	➤ Extends and increases the value of the credit to 30% of cost up to \$1,500 for 2009 and 2010	➤ Extends and increases the value of the credit to 30% of cost up to \$1,500 for 2009 and 2010 for property meeting certain standards.	➤ Extends and increases the value of the credit to 30% of cost up to \$1,500 for 2009 and 2010 for property meeting certain standards.
Investment Tax Credit	➤ Replaces the \$500 maximum with a \$1,667 max on qualified fuel cell properties.	➤ Removes the \$2,000 cap on the 30% credit for solar thermal and geothermal property, as well as the \$4,000 cap on small wind property.	➤ Removes the \$2,000 cap on the 30% credit for solar thermal and geothermal property, as well as the \$4,000 cap on small wind property.
Energy Conservation Bonds	➤ Increases and expands the bond limitation on energy conservation bonds by \$2.4 billion for loans and grants to implement Green Community Programs	➤ Increases and expands the bond limitation on energy conservation bonds by \$2.4 billion for loans and grants to implement Green Community Programs	➤ Increases and expands the bond limitation on energy conservation bonds by \$2.4 billion for loans and grants to implement Green Community Programs
Research Credits for Energy Research	➤ Provides an enhanced 20% R&D credit for qualified research expenses on research related to fuel cells and battery technology, renewable energy, energy conservation technology, efficient transmission and distribution of electricity, and	➤ Provides an enhanced 20% R&D credit for qualified research expenses on research related to fuel cells and battery technology, renewable energy, energy conservation technology, efficient transmission and distribution of electricity, and carbon capture and sequestration.	

	carbon capture and sequestration.		
Grants in Lieu of Credits	➤ Provides a grant for persons who place in service specified energy property during 2009 or 2010 for expenses for combined heat and power systems, geothermal heat pumps, and others	➤ Provides a credit for persons who place in service specified energy property during 2009 or 2010 for expenses for combined heat and power systems, geothermal heat pumps, and others	➤ Provides a credit for persons who place in service specified energy property during 2009 or 2010 for expenses for combined heat and power systems, geothermal heat pumps, and others
Smart Meter Depreciation		➤ Provides a temporary 5-year recovery period for the depreciation of smart meters which are placed in service before January 1, 2011.	
Advanced Energy Investment Credit			➤ Provides a credit for persons who place in service specified energy property during 2009 or 2010 for expenses for combined heat and power systems, geothermal heat pumps, and others