

COMPARISON OF ENERGY EFFICIENCY PROVISIONS IN ENERGY AND CLIMATE LEGISLATION FOR THE 111TH CONGRESS

Energy efficiency provisions in the [American Clean Energy and Security Act](#) (ACES, Waxman-Markey), [American Clean Energy Leadership Act](#) (ACELA, Bingaman), and [Practical Energy and Climate Plan Act](#) (PECPA, Lugar) all stress upgrading building codes and building retrofits to a similar degree while varying in content on appliance standards and energy efficiency in federally-owned buildings and facilities. The following table compares the energy efficiency provisions detailed in those bills. The ACES Act provides the most comprehensive approach to energy efficiency, although it lacks some provisions of other bills, such as federal building energy efficiency and rural energy savings programs. The [American Power Act](#) (APA, Kerry-Lieberman), except for establishing a rural energy savings program and a National Industrial Innovation Institute with a focus on energy efficiency, does not include detailed energy efficiency provisions.

Program Category	American Clean Energy and Security Act (H.R. 2454, as passed by the House)	American Clean Energy Leadership Act (S.1462, as passed by the Senate Energy and Natural Resources Committee)	American Power Act (discussion draft, 5/12/2010)	Practical Energy and Climate Plan Act (S.3464, as introduced)
Building Codes	<ul style="list-style-type: none"> 30% energy savings target after enactment 50% energy savings target by 2014 (residential), 2015 (commercial) Additional 5% reduction target every three years after meeting 50% target 	<ul style="list-style-type: none"> 30% energy savings target for buildings built to a code released during or after 2010 50% energy savings target for buildings built to a code released during or after 2016 	<ul style="list-style-type: none"> No similar provision 	<ul style="list-style-type: none"> 30% energy savings target by 2012 50% energy savings target by 2015 (residential), 2017 (commercial)
(Targets are relative to the 2006 IECC (residential) and ASHRAE Standard 90.1-2004 (commercial) codes.)				
Building Retrofits	<ul style="list-style-type: none"> Federal support through allowance allocations to State Energy and Environment Development (SEED) accounts for states complying with building codes Retrofit for Energy and Environmental Performance (REEP) program for existing buildings funded with allowances to SEED accounts Building energy performance and labeling program Manufactured Home Replacement Program provides rebates for new, Energy-Star manufactured homes 	<ul style="list-style-type: none"> Grants to states for building energy efficiency measures and for revolving finance fund supporting such measures Building energy performance and labeling program 	<ul style="list-style-type: none"> No similar provision 	<ul style="list-style-type: none"> Financial assistance to owners for energy efficiency measures and on-site renewable energy generation systems in buildings Annual target energy efficiency retrofit rates (5% for homes and 2% for commercial buildings)
Appliance Standards	<ul style="list-style-type: none"> Best-in-class appliances deployment program rewards retailers for increasing sales of efficient products Rating system for Energy Star products to provide information on relative energy efficiency New energy conservation standards for a range of products 	<ul style="list-style-type: none"> Energy Star products must be reviewed every three years or when market share reaches 35% New energy conservation standards for a range of products Motor efficiency rebate program Various appliance efficiency 	<ul style="list-style-type: none"> No similar provision 	<ul style="list-style-type: none"> Requires DOE to set energy conservation standards for each type/class of covered equipment and amends the definition of covered industrial equipment by including "other equipment" as a category

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		related studies		
Federal Energy Efficiency	<ul style="list-style-type: none"> No similar provision 	<ul style="list-style-type: none"> Federal agencies to choose contractors for energy saving performance contracts in a competitive manner Federal agencies to implement a strategy for energy-efficient information and communication technologies Expands utility incentive program eligibility to Independent System Operators, State agencies, tribes, and third party entities National energy efficiency improvement goals 	<ul style="list-style-type: none"> No similar provision 	<ul style="list-style-type: none"> Federal buildings to meet or exceed national building performance standards Not less than 95% of a federal agency's new contracts must procure an Energy Star or FEMA product (or a similarly rated product) or a designated innovative product
Smart Grid Advancement	<ul style="list-style-type: none"> Smart Grid Advancement provisions including assessment of smart-grid cost effectiveness of products and including smart grid information labels 	<ul style="list-style-type: none"> No similar provision 	<ul style="list-style-type: none"> No similar provision 	<ul style="list-style-type: none"> No similar provision
Rural Energy Savings	<ul style="list-style-type: none"> No similar provision 	<ul style="list-style-type: none"> No similar provision 	<ul style="list-style-type: none"> Low-interest loan program for rural communities to finance energy efficiency projects, with funding through allocations 	<ul style="list-style-type: none"> Low-interest loan program for rural communities to finance energy efficiency projects, with direct funding
State Partnership Industrial Energy Efficiency Revolving Loan Program	<ul style="list-style-type: none"> No similar provision 	<ul style="list-style-type: none"> No similar provision 	<ul style="list-style-type: none"> No similar provision 	<ul style="list-style-type: none"> Partially federally funded revolving loan program for commercial and industrial manufacturers to reduce their energy intensity
Zero Net Energy Buildings	<ul style="list-style-type: none"> No similar provision 	<ul style="list-style-type: none"> Residential High-Performance Zero-Net-Energy Buildings Initiative which aims to promote relevant technologies and strategies. 	<ul style="list-style-type: none"> No similar provision 	<ul style="list-style-type: none"> No similar provision
Other Energy Efficiency	<ul style="list-style-type: none"> State Energy and Environment Development Accounts (SEED) with 	<ul style="list-style-type: none"> Grant program for energy-efficiency programs in 	<ul style="list-style-type: none"> National Industrial Innovation Institute to focus on energy 	<ul style="list-style-type: none"> No additional major energy efficiency measures

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	allowances allocated to SEED for energy efficiency programs	multifamily buildings and manufactured housing <ul style="list-style-type: none"> • Grants to institutions of higher education to establish building training and assessment centers 	efficiency R&D projects	