

113TH CONGRESS
2D SESSION

S. 2074

To promote energy savings in residential buildings and industry, and for other purposes.

IN THE SENATE OF THE UNITED STATES

FEBRUARY 27, 2014

Mrs. SHAHEEN (for herself, Mr. PORTMAN, Ms. LANDRIEU, Mr. COONS, Mr. WARNER, Mr. FRANKEN, Mr. MANCHIN, Ms. COLLINS, Ms. AYOTTE, Mr. WICKER, Mr. HOEVEN, and Mr. ISAKSON) introduced the following bill; which was read twice and referred to the Committee on Energy and Natural Resources

A BILL

To promote energy savings in residential buildings and industry, and for other purposes.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE; TABLE OF CONTENTS.**

4 (a) SHORT TITLE.—This Act may be cited as the
5 “Energy Savings and Industrial Competitiveness Act of
6 2014”.

7 (b) TABLE OF CONTENTS.—The table of contents of
8 this Act is as follows:

Sec. 1. Short title; table of contents.
Sec. 2. Definition of Secretary.

TITLE I—BUILDINGS

Subtitle A—Building Energy Codes

Sec. 101. Greater energy efficiency in building codes.

Subtitle B—Worker Training and Capacity Building

Sec. 111. Building training and assessment centers.

Sec. 112. Career skills training.

Subtitle C—School Buildings

Sec. 121. Coordination of energy retrofitting assistance for schools.

Subtitle D—Better Buildings

Sec. 131. Energy efficiency in Federal and other buildings.

Sec. 132. Separate spaces with high-performance energy efficiency measures.

Sec. 133. Tenant star program.

Subtitle E—Energy Information for Commercial Buildings

Sec. 141. Energy information for commercial buildings.

TITLE II—INDUSTRIAL EFFICIENCY AND COMPETITIVENESS

Subtitle A—Manufacturing Energy Efficiency

Sec. 201. Purposes.

Sec. 202. Future of Industry program.

Sec. 203. Sustainable manufacturing initiative.

Sec. 204. Conforming amendments.

Subtitle B—Supply Star

Sec. 211. Supply Star.

Subtitle C—Electric Motor Rebate Program

Sec. 221. Energy saving motor control, electric motor, and advanced motor systems rebate program.

Subtitle D—Transformer Rebate Program

Sec. 231. Energy efficient transformer rebate program.

TITLE III—FEDERAL AGENCY ENERGY EFFICIENCY

Sec. 301. Energy-efficient and energy-saving information technologies.

Sec. 302. Availability of funds for design updates.

Sec. 303. Energy efficient data centers.

Sec. 304. Budget-neutral demonstration program for energy and water conservation improvements at multifamily residential units.

TITLE IV—REGULATORY PROVISIONS

Subtitle A—Third-Party Certification Under Energy Star Program

Sec. 401. Third-party certification under Energy Star program.

Subtitle B—Federal Green Buildings

Sec. 411. High-performance green Federal buildings.

Subtitle C—Water Heaters

Sec. 421. Grid-enabled water heaters.

Subtitle D—Energy Performance Requirement for Federal Buildings

Sec. 431. Energy performance requirement for Federal buildings.

Sec. 432. Federal building energy efficiency performance standards; certification system and level for green buildings.

Sec. 433. Enhanced energy efficiency underwriting.

Subtitle E—Third-Party Testing

Sec. 441. Voluntary certification programs for air conditioning, furnace, boiler, heat pump, and water heater products.

TITLE V—MISCELLANEOUS

Sec. 501. Offset.

Sec. 502. Budgetary effects.

Sec. 503. Advance appropriations required.

1 SEC. 2. DEFINITION OF SECRETARY.

2 In this Act, the term “Secretary” means the Sec-
3 retary of Energy.

4 TITLE I—BUILDINGS

5 Subtitle A—Building Energy Codes

6 SEC. 101. GREATER ENERGY EFFICIENCY IN BUILDING
7 CODES.

8 (a) DEFINITIONS.—Section 303 of the Energy Con-
9 servation and Production Act (42 U.S.C. 6832) is amend-
10 ed—

11 (1) by striking paragraph (14) and inserting
12 the following:

13 “(14) MODEL BUILDING ENERGY CODE.—The
14 term ‘model building energy code’ means a voluntary
15 building energy code and standards developed and

1 updated through a consensus process among inter-
 2 ested persons, such as the IECC or the code used
 3 by—

4 “(A) the Council of American Building Of-
 5 ficials, or its legal successor, International Code
 6 Council, Inc.;

7 “(B) the American Society of Heating, Re-
 8 frigerating, and Air-Conditioning Engineers; or

9 “(C) other appropriate organizations.”;
 10 and

11 (2) by adding at the end the following:

12 “(17) IECC.—The term ‘IECC’ means the
 13 International Energy Conservation Code.

14 “(18) INDIAN TRIBE.—The term ‘Indian tribe’
 15 has the meaning given the term in section 4 of the
 16 Native American Housing Assistance and Self-De-
 17 termination Act of 1996 (25 U.S.C. 4103).”.

18 (b) STATE BUILDING ENERGY EFFICIENCY
 19 CODES.—Section 304 of the Energy Conservation and
 20 Production Act (42 U.S.C. 6833) is amended to read as
 21 follows:

22 **“SEC. 304. UPDATING STATE BUILDING ENERGY EFFI-
 23 CIENCY CODES.**

24 “(a) IN GENERAL.—The Secretary shall—

1 “(1) encourage and support the adoption of
 2 building energy codes by States, Indian tribes, and,
 3 as appropriate, by local governments that meet or
 4 exceed the model building energy codes, or achieve
 5 equivalent or greater energy savings; and

6 “(2) support full compliance with the State and
 7 local codes.

8 “(b) STATE AND INDIAN TRIBE CERTIFICATION OF
 9 BUILDING ENERGY CODE UPDATES.—

10 “(1) REVIEW AND UPDATING OF CODES BY
 11 EACH STATE AND INDIAN TRIBE.—

12 “(A) IN GENERAL.—Not later than 2 years
 13 after the date on which a model building energy
 14 code is updated, each State or Indian tribe shall
 15 certify whether or not the State or Indian tribe,
 16 respectively, has reviewed and updated the en-
 17 ergy provisions of the building code of the State
 18 or Indian tribe, respectively.

19 “(B) DEMONSTRATION.—The certification
 20 shall include a demonstration of whether or not
 21 the energy savings for the code provisions that
 22 are in effect throughout the State or Indian
 23 tribal territory meet or exceed—

24 “(i) the energy savings of the updated
 25 model building energy code; or

1 “(ii) the targets established under sec-
 2 tion 307(b)(2).

3 “(C) NO MODEL BUILDING ENERGY CODE
 4 UPDATE.—If a model building energy code is
 5 not updated by a target date established under
 6 section 307(b)(2)(D), each State or Indian tribe
 7 shall, not later than 2 years after the specified
 8 date, certify whether or not the State or Indian
 9 tribe, respectively, has reviewed and updated
 10 the energy provisions of the building code of the
 11 State or Indian tribe, respectively, to meet or
 12 exceed the target in section 307(b)(2).

13 “(2) VALIDATION BY SECRETARY.—Not later
 14 than 90 days after a State or Indian tribe certifi-
 15 cation under paragraph (1), the Secretary shall—

16 “(A) determine whether the code provi-
 17 sions of the State or Indian tribe, respectively,
 18 meet the criteria specified in paragraph (1);
 19 and

20 “(B) if the determination is positive, vali-
 21 date the certification.

22 “(c) IMPROVEMENTS IN COMPLIANCE WITH BUILD-
 23 ING ENERGY CODES.—

24 “(1) REQUIREMENT.—

1 “(A) IN GENERAL.—Not later than 3 years
2 after the date of a certification under sub-
3 section (b), each State and Indian tribe shall
4 certify whether or not the State and Indian
5 tribe, respectively, has—

6 “(i) achieved full compliance under
7 paragraph (3) with the applicable certified
8 State and Indian tribe building energy
9 code or with the associated model building
10 energy code; or

11 “(ii) made significant progress under
12 paragraph (4) toward achieving compliance
13 with the applicable certified State and In-
14 dian tribe building energy code or with the
15 associated model building energy code.

16 “(B) REPEAT CERTIFICATIONS.—If the
17 State or Indian tribe certifies progress toward
18 achieving compliance, the State or Indian tribe
19 shall repeat the certification until the State or
20 Indian tribe certifies that the State or Indian
21 tribe has achieved full compliance, respectively.

22 “(2) MEASUREMENT OF COMPLIANCE.—A cer-
23 tification under paragraph (1) shall include docu-
24 mentation of the rate of compliance based on—

1 “(A) independent inspections of a random
 2 sample of the buildings covered by the code in
 3 the preceding year; or

4 “(B) an alternative method that yields an
 5 accurate measure of compliance.

6 “(3) ACHIEVEMENT OF COMPLIANCE.—A State
 7 or Indian tribe shall be considered to achieve full
 8 compliance under paragraph (1) if—

9 “(A) at least 90 percent of building space
 10 covered by the code in the preceding year sub-
 11 stantially meets all the requirements of the ap-
 12 plicable code specified in paragraph (1), or
 13 achieves equivalent or greater energy savings
 14 level; or

15 “(B) the estimated excess energy use of
 16 buildings that did not meet the applicable code
 17 specified in paragraph (1) in the preceding
 18 year, compared to a baseline of comparable
 19 buildings that meet this code, is not more than
 20 5 percent of the estimated energy use of all
 21 buildings covered by this code during the pre-
 22 ceding year.

23 “(4) SIGNIFICANT PROGRESS TOWARD
 24 ACHIEVEMENT OF COMPLIANCE.—A State or Indian
 25 tribe shall be considered to have made significant

1 progress toward achieving compliance for purposes
2 of paragraph (1) if the State or Indian tribe—

3 “(A) has developed and is implementing a
4 plan for achieving compliance during the 8-year
5 period beginning on the date of enactment of
6 this paragraph, including annual targets for
7 compliance and active training and enforcement
8 programs; and

9 “(B) has met the most recent target under
10 subparagraph (A).

11 “(5) VALIDATION BY SECRETARY.—Not later
12 than 90 days after a State or Indian tribe certifi-
13 cation under paragraph (1), the Secretary shall—

14 “(A) determine whether the State or In-
15 dian tribe has demonstrated meeting the cri-
16 teria of this subsection, including accurate
17 measurement of compliance; and

18 “(B) if the determination is positive, vali-
19 date the certification.

20 “(d) STATES OR INDIAN TRIBES THAT DO NOT
21 ACHIEVE COMPLIANCE.—

22 “(1) REPORTING.—A State or Indian tribe that
23 has not made a certification required under sub-
24 section (b) or (c) by the applicable deadline shall
25 submit to the Secretary a report on—

1 “(A) the status of the State or Indian tribe
2 with respect to meeting the requirements and
3 submitting the certification; and

4 “(B) a plan for meeting the requirements
5 and submitting the certification.

6 “(2) FEDERAL SUPPORT.—For any State or In-
7 dian tribe for which the Secretary has not validated
8 a certification by a deadline under subsection (b) or
9 (c), the lack of the certification may be a consider-
10 ation for Federal support authorized under this sec-
11 tion for code adoption and compliance activities.

12 “(3) LOCAL GOVERNMENT.—In any State or
13 Indian tribe for which the Secretary has not vali-
14 dated a certification under subsection (b) or (c), a
15 local government may be eligible for Federal support
16 by meeting the certification requirements of sub-
17 sections (b) and (c).

18 “(4) ANNUAL REPORTS BY SECRETARY.—

19 “(A) IN GENERAL.—The Secretary shall
20 annually submit to Congress, and publish in the
21 Federal Register, a report on—

22 “(i) the status of model building en-
23 ergy codes;

24 “(ii) the status of code adoption and
25 compliance in the States and Indian tribes;

1 “(iii) implementation of this section;

2 and

3 “(iv) improvements in energy savings

4 over time as result of the targets estab-

5 lished under section 307(b)(2).

6 “(B) IMPACTS.—The report shall include

7 estimates of impacts of past action under this

8 section, and potential impacts of further action,

9 on—

10 “(i) upfront financial and construction

11 costs, cost benefits and returns (using in-

12 vestment analysis), and lifetime energy use

13 for buildings;

14 “(ii) resulting energy costs to individ-

15 uals and businesses; and

16 “(iii) resulting overall annual building

17 ownership and operating costs.

18 “(e) TECHNICAL ASSISTANCE TO STATES AND IN-

19 DIAN TRIBES.—The Secretary shall provide technical as-

20 sistance to States and Indian tribes to implement the goals

21 and requirements of this section, including procedures and

22 technical analysis for States and Indian tribes—

23 “(1) to improve and implement State residential

24 and commercial building energy codes;

1 “(2) to demonstrate that the code provisions of
 2 the States and Indian tribes achieve equivalent or
 3 greater energy savings than the model building en-
 4 ergy codes and targets;

5 “(3) to document the rate of compliance with a
 6 building energy code; and

7 “(4) to otherwise promote the design and con-
 8 struction of energy efficient buildings.

9 “(f) AVAILABILITY OF INCENTIVE FUNDING.—

10 “(1) IN GENERAL.—The Secretary shall provide
 11 incentive funding to States and Indian tribes—

12 “(A) to implement the requirements of this
 13 section;

14 “(B) to improve and implement residential
 15 and commercial building energy codes, including
 16 increasing and verifying compliance with the
 17 codes and training of State, tribal, and local
 18 building code officials to implement and enforce
 19 the codes; and

20 “(C) to promote building energy efficiency
 21 through the use of the codes.

22 “(2) ADDITIONAL FUNDING.—Additional fund-
 23 ing shall be provided under this subsection for im-
 24 plementation of a plan to achieve and document full

1 compliance with residential and commercial building
2 energy codes under subsection (c)—

3 “(A) to a State or Indian tribe for which
4 the Secretary has validated a certification under
5 subsection (b) or (c); and

6 “(B) in a State or Indian tribe that is not
7 eligible under subparagraph (A), to a local gov-
8 ernment that is eligible under this section.

9 “(3) TRAINING.—Of the amounts made avail-
10 able under this subsection, the State or Indian tribe
11 may use amounts required, but not to exceed
12 \$750,000 for a State, to train State and local build-
13 ing code officials to implement and enforce codes de-
14 scribed in paragraph (2).

15 “(4) LOCAL GOVERNMENTS.—States may share
16 grants under this subsection with local governments
17 that implement and enforce the codes.

18 “(g) STRETCH CODES AND ADVANCED STAND-
19 ARDS.—

20 “(1) IN GENERAL.—The Secretary shall provide
21 technical and financial support for the development
22 of stretch codes and advanced standards for residen-
23 tial and commercial buildings for use as—

1 “(A) an option for adoption as a building
2 energy code by local, tribal, or State govern-
3 ments; and

4 “(B) guidelines for energy-efficient build-
5 ing design.

6 “(2) TARGETS.—The stretch codes and ad-
7 vanced standards shall be designed—

8 “(A) to achieve substantial energy savings
9 compared to the model building energy codes;
10 and

11 “(B) to meet targets under section 307(b),
12 if available, at least 3 to 6 years in advance of
13 the target years.

14 “(h) STUDIES.—The Secretary, in consultation with
15 building science experts from the National Laboratories
16 and institutions of higher education, designers and build-
17 ers of energy-efficient residential and commercial build-
18 ings, code officials, and other stakeholders, shall under-
19 take a study of the feasibility, impact, economics, and
20 merit of—

21 “(1) code improvements that would require that
22 buildings be designed, sited, and constructed in a
23 manner that makes the buildings more adaptable in
24 the future to become zero-net-energy after initial

1 construction, as advances are achieved in energy-sav-
 2 ing technologies;

3 “(2) code procedures to incorporate measured
 4 lifetimes, not just first-year energy use, in trade-offs
 5 and performance calculations; and

6 “(3) legislative options for increasing energy
 7 savings from building energy codes, including addi-
 8 tional incentives for effective State and local action,
 9 and verification of compliance with and enforcement
 10 of a code other than by a State or local government.

11 “(i) EFFECT ON OTHER LAWS.—Nothing in this sec-
 12 tion or section 307 supersedes or modifies the application
 13 of sections 321 through 346 of the Energy Policy and
 14 Conservation Act (42 U.S.C. 6291 et seq.).

15 “(j) AUTHORIZATION OF APPROPRIATIONS.—There
 16 are authorized to be appropriated to carry out this section
 17 and section 307 \$200,000,000, to remain available until
 18 expended.”.

19 (c) FEDERAL BUILDING ENERGY EFFICIENCY
 20 STANDARDS.—Section 305 of the Energy Conservation
 21 and Production Act (42 U.S.C. 6834) is amended by strik-
 22 ing “voluntary building energy code” each place it appears
 23 in subsections (a)(2)(B) and (b) and inserting “model
 24 building energy code”.

1 (d) MODEL BUILDING ENERGY CODES.—Section 307
2 of the Energy Conservation and Production Act (42
3 U.S.C. 6836) is amended to read as follows:

4 **“SEC. 307. SUPPORT FOR MODEL BUILDING ENERGY**
5 **CODES.**

6 “(a) IN GENERAL.—The Secretary shall support the
7 updating of model building energy codes.

8 “(b) TARGETS.—

9 “(1) IN GENERAL.—The Secretary shall sup-
10 port the updating of the model building energy codes
11 to enable the achievement of aggregate energy sav-
12 ings targets established under paragraph (2).

13 “(2) TARGETS.—

14 “(A) IN GENERAL.—The Secretary shall
15 work with State, Indian tribes, local govern-
16 ments, nationally recognized code and stand-
17 ards developers, and other interested parties to
18 support the updating of model building energy
19 codes by establishing one or more aggregate en-
20 ergy savings targets to achieve the purposes of
21 this section.

22 “(B) SEPARATE TARGETS.—The Secretary
23 may establish separate targets for commercial
24 and residential buildings.

1 “(C) BASELINES.—The baseline for updat-
2 ing model building energy codes shall be the
3 2009 IECC for residential buildings and
4 ASHRAE Standard 90.1–2010 for commercial
5 buildings.

6 “(D) SPECIFIC YEARS.—

7 “(i) IN GENERAL.—Targets for spe-
8 cific years shall be established and revised
9 by the Secretary through rulemaking and
10 coordinated with nationally recognized code
11 and standards developers at a level that—

12 “(I) is at the maximum level of
13 energy efficiency that is techno-
14 logically feasible and life-cycle cost ef-
15 fective, while accounting for the eco-
16 nomic considerations under paragraph
17 (4);

18 “(II) is higher than the preceding
19 target; and

20 “(III) promotes the achievement
21 of commercial and residential high-
22 performance buildings through high
23 performance energy efficiency (within
24 the meaning of section 401 of the En-

1 ergy Independence and Security Act
2 of 2007 (42 U.S.C. 17061)).

3 “(ii) INITIAL TARGETS.—Not later
4 than 1 year after the date of enactment of
5 this clause, the Secretary shall establish
6 initial targets under this subparagraph.

7 “(iii) DIFFERENT TARGET YEARS.—
8 Subject to clause (i), prior to the applica-
9 ble year, the Secretary may set a later tar-
10 get year for any of the model building en-
11 ergy codes described in subparagraph (A)
12 if the Secretary determines that a target
13 cannot be met.

14 “(iv) SMALL BUSINESS.—When estab-
15 lishing targets under this paragraph
16 through rulemaking, the Secretary shall
17 ensure compliance with the Small Business
18 Regulatory Enforcement Fairness Act of
19 1996 (5 U.S.C. 601 note; Public Law 104–
20 121).

21 “(3) APPLIANCE STANDARDS AND OTHER FAC-
22 TORS AFFECTING BUILDING ENERGY USE.—In es-
23 tablishing building code targets under paragraph
24 (2), the Secretary shall develop and adjust the tar-

1 gets in recognition of potential savings and costs re-
2 lating to—

3 “(A) efficiency gains made in appliances,
4 lighting, windows, insulation, and building enve-
5 lope sealing;

6 “(B) advancement of distributed genera-
7 tion and on-site renewable power generation
8 technologies;

9 “(C) equipment improvements for heating,
10 cooling, and ventilation systems;

11 “(D) building management systems and
12 SmartGrid technologies to reduce energy use;
13 and

14 “(E) other technologies, practices, and
15 building systems that the Secretary considers
16 appropriate regarding building plug load and
17 other energy uses.

18 “(4) ECONOMIC CONSIDERATIONS.—In estab-
19 lishing and revising building code targets under
20 paragraph (2), the Secretary shall consider the eco-
21 nomic feasibility of achieving the proposed targets
22 established under this section and the potential costs
23 and savings for consumers and building owners, in-
24 cluding a return on investment analysis.

1 “(c) TECHNICAL ASSISTANCE TO MODEL BUILDING
 2 ENERGY CODE-SETTING AND STANDARD DEVELOPMENT
 3 ORGANIZATIONS.—

4 “(1) IN GENERAL.—The Secretary shall, on a
 5 timely basis, provide technical assistance to model
 6 building energy code-setting and standard develop-
 7 ment organizations consistent with the goals of this
 8 section.

9 “(2) ASSISTANCE.—The assistance shall in-
 10 clude, as requested by the organizations, technical
 11 assistance in—

12 “(A) evaluating code or standards pro-
 13 posals or revisions;

14 “(B) building energy analysis and design
 15 tools;

16 “(C) building demonstrations;

17 “(D) developing definitions of energy use
 18 intensity and building types for use in model
 19 building energy codes to evaluate the efficiency
 20 impacts of the model building energy codes;

21 “(E) performance-based standards;

22 “(F) evaluating economic considerations
 23 under subsection (b)(4); and

1 “(G) developing model building energy
2 codes by Indian tribes in accordance with tribal
3 law.

4 “(3) AMENDMENT PROPOSALS.—The Secretary
5 may submit timely model building energy code
6 amendment proposals to the model building energy
7 code-setting and standard development organiza-
8 tions, with supporting evidence, sufficient to enable
9 the model building energy codes to meet the targets
10 established under subsection (b)(2).

11 “(4) ANALYSIS METHODOLOGY.—The Secretary
12 shall make publicly available the entire calculation
13 methodology (including input assumptions and data)
14 used by the Secretary to estimate the energy savings
15 of code or standard proposals and revisions.

16 “(d) DETERMINATION.—

17 “(1) REVISION OF MODEL BUILDING ENERGY
18 CODES.—If the provisions of the IECC or ASHRAE
19 Standard 90.1 regarding building energy use are re-
20 vised, the Secretary shall make a preliminary deter-
21 mination not later than 90 days after the date of the
22 revision, and a final determination not later than 15
23 months after the date of the revision, on whether or
24 not the revision will—

1 “(A) improve energy efficiency in buildings
 2 compared to the existing model building energy
 3 code; and

4 “(B) meet the applicable targets under
 5 subsection (b)(2).

6 “(2) CODES OR STANDARDS NOT MEETING TAR-
 7 GETS.—

8 “(A) IN GENERAL.—If the Secretary
 9 makes a preliminary determination under para-
 10 graph (1)(B) that a code or standard does not
 11 meet the targets established under subsection
 12 (b)(2), the Secretary may at the same time pro-
 13 vide the model building energy code or standard
 14 developer with proposed changes that would re-
 15 sult in a model building energy code that meets
 16 the targets and with supporting evidence, tak-
 17 ing into consideration—

18 “(i) whether the modified code is tech-
 19 nically feasible and life-cycle cost effective;

20 “(ii) available appliances, technologies,
 21 materials, and construction practices; and

22 “(iii) the economic considerations
 23 under subsection (b)(4).

24 “(B) INCORPORATION OF CHANGES.—

1 “(i) IN GENERAL.—On receipt of the
 2 proposed changes, the model building en-
 3 ergy code or standard developer shall have
 4 an additional 270 days to accept or reject
 5 the proposed changes of the Secretary to
 6 the model building energy code or standard
 7 for the Secretary to make a final deter-
 8 mination.

9 “(ii) FINAL DETERMINATION.—A
 10 final determination under paragraph (1)
 11 shall be on the modified model building en-
 12 ergy code or standard.

13 “(e) ADMINISTRATION.—In carrying out this section,
 14 the Secretary shall—

15 “(1) publish notice of targets and supporting
 16 analysis and determinations under this section in the
 17 Federal Register to provide an explanation of and
 18 the basis for such actions, including any supporting
 19 modeling, data, assumptions, protocols, and cost-
 20 benefit analysis, including return on investment; and

21 “(2) provide an opportunity for public comment
 22 on targets and supporting analysis and determina-
 23 tions under this section.

24 “(f) VOLUNTARY CODES AND STANDARDS.—Not-
 25 withstanding any other provision of this section, any

1 model building code or standard established under section
 2 304 shall not be binding on a State, local government, or
 3 Indian tribe as a matter of Federal law.”.

4 **Subtitle B—Worker Training and** 5 **Capacity Building**

6 **SEC. 111. BUILDING TRAINING AND ASSESSMENT CENTERS.**

7 (a) IN GENERAL.—The Secretary shall provide
 8 grants to institutions of higher education (as defined in
 9 section 101 of the Higher Education Act of 1965 (20
 10 U.S.C. 1001)) and Tribal Colleges or Universities (as de-
 11 fined in section 316(b) of that Act (20 U.S.C. 1059c(b)))
 12 to establish building training and assessment centers—

13 (1) to identify opportunities for optimizing en-
 14 ergy efficiency and environmental performance in
 15 buildings;

16 (2) to promote the application of emerging con-
 17 cepts and technologies in commercial and institu-
 18 tional buildings;

19 (3) to train engineers, architects, building sci-
 20 entists, building energy permitting and enforcement
 21 officials, and building technicians in energy-efficient
 22 design and operation;

23 (4) to assist institutions of higher education
 24 and Tribal Colleges or Universities in training build-
 25 ing technicians;

1 (5) to promote research and development for
2 the use of alternative energy sources and distributed
3 generation to supply heat and power for buildings,
4 particularly energy-intensive buildings; and

5 (6) to coordinate with and assist State-accred-
6 ited technical training centers, community colleges,
7 Tribal Colleges or Universities, and local offices of
8 the National Institute of Food and Agriculture and
9 ensure appropriate services are provided under this
10 section to each region of the United States.

11 (b) COORDINATION AND NONDUPLICATION.—

12 (1) IN GENERAL.—The Secretary shall coordi-
13 nate the program with the industrial research and
14 assessment centers program and with other Federal
15 programs to avoid duplication of effort.

16 (2) COLLOCATION.—To the maximum extent
17 practicable, building, training, and assessment cen-
18 ters established under this section shall be collocated
19 with Industrial Assessment Centers.

20 (c) AUTHORIZATION OF APPROPRIATIONS.—There is
21 authorized to be appropriated to carry out this section
22 \$10,000,000, to remain available until expended.

23 **SEC. 112. CAREER SKILLS TRAINING.**

24 (a) IN GENERAL.—The Secretary shall pay grants to
25 eligible entities described in subsection (b) to pay the Fed-

1 eral share of associated career skills training programs
 2 under which students concurrently receive classroom in-
 3 struction and on-the-job training for the purpose of ob-
 4 taining an industry-related certification to install energy
 5 efficient buildings technologies, including technologies de-
 6 scribed in section 307(b)(3) of the Energy Conservation
 7 and Production Act (42 U.S.C. 6836(b)(3)).

8 (b) ELIGIBILITY.—To be eligible to obtain a grant
 9 under subsection (a), an entity shall be a nonprofit part-
 10 nership described in section 171(e)(2)(B)(ii) of the Work-
 11 force Investment Act of 1998 (29 U.S.C.
 12 2916(e)(2)(B)(ii)).

13 (c) FEDERAL SHARE.—The Federal share of the cost
 14 of carrying out a career skills training program described
 15 in subsection (a) shall be 50 percent.

16 (d) AUTHORIZATION OF APPROPRIATIONS.—There is
 17 authorized to be appropriated to carry out this section
 18 \$10,000,000, to remain available until expended.

19 **Subtitle C—School Buildings**

20 **SEC. 121. COORDINATION OF ENERGY RETROFITTING AS-** 21 **SISTANCE FOR SCHOOLS.**

22 (a) DEFINITION OF SCHOOL.—In this section, the
 23 term “school” means—

24 (1) an elementary school or secondary school
 25 (as defined in section 9101 of the Elementary and

1 Secondary Education Act of 1965 (20 U.S.C.
2 7801));

3 (2) an institution of higher education (as de-
4 fined in section 102(a) of the Higher Education Act
5 of 1965 (20 U.S.C. 1002(a)));

6 (3) a school of the defense dependents' edu-
7 cation system under the Defense Dependents' Edu-
8 cation Act of 1978 (20 U.S.C. 921 et seq.) or estab-
9 lished under section 2164 of title 10, United States
10 Code;

11 (4) a school operated by the Bureau of Indian
12 Affairs;

13 (5) a tribally controlled school (as defined in
14 section 5212 of the Tribally Controlled Schools Act
15 of 1988 (25 U.S.C. 2511)); and

16 (6) a Tribal College or University (as defined in
17 section 316(b) of the Higher Education Act of 1965
18 (20 U.S.C. 1059c(b))).

19 (b) DESIGNATION OF LEAD AGENCY.—The Sec-
20 retary, acting through the Office of Energy Efficiency and
21 Renewable Energy, shall act as the lead Federal agency
22 for coordinating and disseminating information on exist-
23 ing Federal programs and assistance that may be used
24 to help initiate, develop, and finance energy efficiency, re-

1 newable energy, and energy retrofitting projects for
2 schools.

3 (c) REQUIREMENTS.—In carrying out coordination
4 and outreach under subsection (b), the Secretary shall—

5 (1) in consultation and coordination with the
6 appropriate Federal agencies, carry out a review of
7 existing programs and financing mechanisms (in-
8 cluding revolving loan funds and loan guarantees)
9 available in or from the Department of Agriculture,
10 the Department of Energy, the Department of Edu-
11 cation, the Department of the Treasury, the Internal
12 Revenue Service, the Environmental Protection
13 Agency, and other appropriate Federal agencies with
14 jurisdiction over energy financing and facilitation
15 that are currently used or may be used to help ini-
16 tiate, develop, and finance energy efficiency, renew-
17 able energy, and energy retrofitting projects for
18 schools;

19 (2) establish a Federal cross-departmental col-
20 laborative coordination, education, and outreach ef-
21 fort to streamline communication and promote avail-
22 able Federal opportunities and assistance described
23 in paragraph (1), for energy efficiency, renewable
24 energy, and energy retrofitting projects that enables
25 States, local educational agencies, and schools—

1 (A) to use existing Federal opportunities
2 more effectively; and

3 (B) to form partnerships with Governors,
4 State energy programs, local educational, finan-
5 cial, and energy officials, State and local gov-
6 ernment officials, nonprofit organizations, and
7 other appropriate entities, to support the initi-
8 ation of the projects;

9 (3) provide technical assistance for States, local
10 educational agencies, and schools to help develop
11 and finance energy efficiency, renewable energy, and
12 energy retrofitting projects—

13 (A) to increase the energy efficiency of
14 buildings or facilities;

15 (B) to install systems that individually
16 generate energy from renewable energy re-
17 sources;

18 (C) to establish partnerships to leverage
19 economies of scale and additional financing
20 mechanisms available to larger clean energy ini-
21 tiatives; or

22 (D) to promote—

23 (i) the maintenance of health, environ-
24 mental quality, and safety in schools, in-
25 cluding the ambient air quality, through

1 energy efficiency, renewable energy, and
 2 energy retrofit projects; and

3 (ii) the achievement of expected en-
 4 ergy savings and renewable energy produc-
 5 tion through proper operations and main-
 6 tenance practices;

7 (4) develop and maintain a single online re-
 8 source Web site with contact information for rel-
 9 evant technical assistance and support staff in the
 10 Office of Energy Efficiency and Renewable Energy
 11 for States, local educational agencies, and schools to
 12 effectively access and use Federal opportunities and
 13 assistance described in paragraph (1) to develop en-
 14 ergy efficiency, renewable energy, and energy retro-
 15 fitting projects; and

16 (5) establish a process for recognition of schools
 17 that—

18 (A) have successfully implemented energy
 19 efficiency, renewable energy, and energy retro-
 20 fitting projects; and

21 (B) are willing to serve as resources for
 22 other local educational agencies and schools to
 23 assist initiation of similar efforts.

24 (d) REPORT.—Not later than 180 days after the date
 25 of enactment of this Act, the Secretary shall submit to

1 Congress a report describing the implementation of this
2 section.

3 **Subtitle D—Better Buildings**

4 **SEC. 131. ENERGY EFFICIENCY IN FEDERAL AND OTHER**
5 **BUILDINGS.**

6 (a) DEFINITIONS.—In this section:

7 (1) ADMINISTRATOR.—The term “Adminis-
8 trator” means the Administrator of General Serv-
9 ices.

10 (2) COST-EFFECTIVE ENERGY EFFICIENCY
11 MEASURE.—The terms “cost-effective energy effi-
12 ciency measure” and “measure” mean any building
13 product, material, equipment, or service and the in-
14 stalling, implementing, or operating thereof, that
15 provides energy savings in an amount that is not
16 less than the cost of such installing, implementing,
17 or operating.

18 (b) MODEL PROVISIONS, POLICIES, AND BEST PRAC-
19 TICES.—

20 (1) IN GENERAL.—Not later than 180 days
21 after the date of enactment of this Act, the Adminis-
22 trator, in consultation with the Secretary and after
23 providing the public with an opportunity for notice
24 and comment, shall develop model leasing provisions

1 and best practices in accordance with this sub-
2 section.

3 (2) COMMERCIAL LEASING.—

4 (A) IN GENERAL.—The model commercial
5 leasing provisions developed under this sub-
6 section shall, at a minimum, align the interests
7 of building owners and tenants with regard to
8 investments in cost-effective energy efficiency
9 measures to encourage building owners and ten-
10 ants to collaborate to invest in such measures.

11 (B) USE OF MODEL PROVISIONS.—The
12 Administrator may use the model provisions de-
13 veloped under this subsection in any standard
14 leasing document that designates a Federal
15 agency (or other client of the Administrator) as
16 a landlord or tenant.

17 (C) PUBLICATION.—The Administrator
18 shall periodically publish the model leasing pro-
19 visions developed under this subsection, along
20 with explanatory materials, to encourage build-
21 ing owners and tenants in the private sector to
22 use such provisions and materials.

23 (3) REALTY SERVICES.—The Administrator
24 shall develop policies and practices to implement
25 cost-effective energy efficiency measures for the real-

ty services provided by the Administrator to Federal agencies (or other clients of the Administrator), including periodic training of appropriate Federal employees and contractors on how to identify and evaluate those measures.

(4) STATE AND LOCAL ASSISTANCE.—The Administrator, in consultation with the Secretary, shall make available model leasing provisions and best practices developed under this subsection to State, county, and municipal governments to manage owned and leased building space in accordance with the goal of encouraging investment in all cost-effective energy efficiency measures.

SEC. 132. SEPARATE SPACES WITH HIGH-PERFORMANCE ENERGY EFFICIENCY MEASURES.

Subtitle B of title IV of the Energy Independence and Security Act of 2007 (42 U.S.C. 17081 et seq.) is amended by adding at the end the following:

“SEC. 424. SEPARATE SPACES WITH HIGH-PERFORMANCE ENERGY EFFICIENCY MEASURES.

“(a) DEFINITIONS.—In this section:

“(1) HIGH-PERFORMANCE ENERGY EFFICIENCY MEASURE.—The term ‘high-performance energy efficiency measure’ means a technology, product, or practice that will result in substantial operational

1 cost savings by reducing energy consumption and
2 utility costs.

3 “(2) SEPARATE SPACES.—The term ‘separate
4 spaces’ means areas within a commercial building
5 that are leased or otherwise occupied by a tenant or
6 other occupant for a period of time pursuant to the
7 terms of a written agreement.

8 “(b) STUDY.—

9 “(1) IN GENERAL.—Not later than 1 year after
10 the date of enactment of this section, the Secretary,
11 acting through the Assistant Secretary of Energy
12 Efficiency and Renewable Energy, shall complete a
13 study on the feasibility of—

14 “(A) significantly improving energy effi-
15 ciency in commercial buildings through the de-
16 sign and construction, by owners and tenants,
17 of separate spaces with high-performance en-
18 ergy efficiency measures; and

19 “(B) encouraging owners and tenants to
20 implement high-performance energy efficiency
21 measures in separate spaces.

22 “(2) SCOPE.—The study shall, at a minimum,
23 include—

24 “(A) descriptions of—

1 “(i) high-performance energy effi-
2 ciency measures that should be considered
3 as part of the initial design and construc-
4 tion of separate spaces;

5 “(ii) processes that owners, tenants,
6 architects, and engineers may replicate
7 when designing and constructing separate
8 spaces with high-performance energy effi-
9 ciency measures;

10 “(iii) policies and best practices to
11 achieve reductions in energy intensities for
12 lighting, plug loads, heating, cooling, cook-
13 ing, laundry, and other systems to satisfy
14 the needs of the commercial building ten-
15 ant;

16 “(iv) return on investment and pay-
17 back analyses of the incremental cost and
18 projected energy savings of the proposed
19 set of high-performance energy efficiency
20 measures, including consideration of avail-
21 able incentives;

22 “(v) models and simulation methods
23 that predict the quantity of energy used by
24 separate spaces with high-performance en-
25 ergy efficiency measures and that compare

1 that predicted quantity to the quantity of
2 energy used by separate spaces without
3 high-performance energy efficiency meas-
4 ures but that otherwise comply with appli-
5 cable building code requirements;

6 “(vi) measurement and verification
7 platforms demonstrating actual energy use
8 of high-performance energy efficiency
9 measures installed in separate spaces, and
10 whether such measures generate the sav-
11 ings intended in the initial design and con-
12 struction of the separate spaces;

13 “(vii) best practices that encourage an
14 integrated approach to designing and con-
15 structing separate spaces to perform at op-
16 timum energy efficiency in conjunction
17 with the central systems of a commercial
18 building; and

19 “(viii) any impact on employment re-
20 sulting from the design and construction of
21 separate spaces with high-performance en-
22 ergy efficiency measures; and

23 “(B) case studies reporting economic and
24 energy saving returns in the design and con-

1 construction of separate spaces with high-perform-
 2 ance energy efficiency measures.

3 “(3) PUBLIC PARTICIPATION.—Not later than
 4 90 days after the date of the enactment of this sec-
 5 tion, the Secretary shall publish a notice in the Fed-
 6 eral Register requesting public comments regarding
 7 effective methods, measures, and practices for the
 8 design and construction of separate spaces with
 9 high-performance energy efficiency measures.

10 “(4) PUBLICATION.—The Secretary shall pub-
 11 lish the study on the website of the Department of
 12 Energy.”.

13 **SEC. 133. TENANT STAR PROGRAM.**

14 Subtitle B of title IV of the Energy Independence and
 15 Security Act of 2007 (42 U.S.C. 17081 et seq.) (as
 16 amended by section 132) is amended by adding at the end
 17 the following:

18 **“SEC. 425. TENANT STAR PROGRAM.**

19 “(a) DEFINITIONS.—In this section:

20 “(1) HIGH-PERFORMANCE ENERGY EFFICIENCY
 21 MEASURE.—The term ‘high-performance energy effi-
 22 ciency measure’ has the meaning given the term in
 23 section 424.

1 “(2) SEPARATE SPACES.—The term ‘separate
2 spaces’ has the meaning given the term in section
3 424.

4 “(b) TENANT STAR.—The Administrator of the Envi-
5 ronmental Protection Agency, in consultation with the
6 Secretary of Energy, shall develop a voluntary program
7 within the Energy Star program established by section
8 324A of the Energy Policy and Conservation Act (42
9 U.S.C. 6294a), which may be known as Tenant Star, to
10 promote energy efficiency in separate spaces leased by ten-
11 ants or otherwise occupied within commercial buildings.

12 “(c) EXPANDING SURVEY DATA.—The Secretary of
13 Energy, acting through the Administrator of the Energy
14 Information Administration, shall—

15 “(1) collect, through each Commercial Build-
16 ings Energy Consumption Survey of the Energy In-
17 formation Administration that is conducted after the
18 date of enactment of this section, data on—

19 “(A) categories of building occupancy that
20 are known to consume significant quantities of
21 energy, such as occupancy by data centers,
22 trading floors, and restaurants; and

23 “(B) other aspects of the property, build-
24 ing operation, or building occupancy determined
25 by the Administrator of the Energy Information

1 Administration, in consultation with the Admin-
 2 istrator of the Environmental Protection Agen-
 3 cy, to be relevant in lowering energy consump-
 4 tion;

5 “(2) with respect to the first Commercial Build-
 6 ings Energy Consumption Survey conducted after
 7 the date of enactment of this section, to the extent
 8 full compliance with the requirements of paragraph
 9 (1) is not feasible, conduct activities to develop the
 10 capability to collect such data and begin to collect
 11 such data; and

12 “(3) make data collected under paragraphs (1)
 13 and (2) available to the public in aggregated form
 14 and provide such data, and any associated results, to
 15 the Administrator of the Environmental Protection
 16 Agency for use in accordance with subsection (d).

17 “(d) RECOGNITION OF OWNERS AND TENANTS.—

18 “(1) OCCUPANCY-BASED RECOGNITION.—Not
 19 later than 1 year after the date on which sufficient
 20 data is received pursuant to subsection (c), the Ad-
 21 ministrator of the Environmental Protection Agency
 22 shall, following an opportunity for public notice and
 23 comment—

24 “(A) in a manner similar to the Energy
 25 Star rating system for commercial buildings,

1 develop policies and procedures to recognize
2 tenants in commercial buildings that voluntarily
3 achieve high levels of energy efficiency in sepa-
4 rate spaces;

5 “(B) establish building occupancy cat-
6 egories eligible for Tenant Star recognition
7 based on the data collected under subsection (c)
8 and any other appropriate data sources; and

9 “(C) consider other forms of recognition
10 for commercial building tenants or other occu-
11 pants that lower energy consumption in sepa-
12 rate spaces.

13 “(2) DESIGN- AND CONSTRUCTION-BASED REC-
14 OGNITION.—After the study required by section
15 424(b) is completed, the Administrator of the Envi-
16 ronmental Protection Agency, in consultation with
17 the Secretary and following an opportunity for pub-
18 lic notice and comment, may develop a voluntary
19 program to recognize commercial building owners
20 and tenants that use high-performance energy effi-
21 ciency measures in the design and construction of
22 separate spaces.”.

1 **Subtitle E—Energy Information for**
2 **Commercial Buildings**

3 **SEC. 141. ENERGY INFORMATION FOR COMMERCIAL BUILD-**
4 **INGS.**

5 (a) REQUIREMENT OF BENCHMARKING AND DISCLO-
6 SURE FOR LEASING BUILDINGS WITHOUT ENERGY STAR
7 LABELS.—Section 435(b)(2) of the Energy Independence
8 and Security Act of 2007 (42 U.S.C. 17091(b)(2)) is
9 amended—

10 (1) by striking “paragraph (2)” and inserting
11 “paragraph (1)”; and

12 (2) by striking “signing the contract,” and all
13 that follows through the period at the end and in-
14 serting the following:

15 “signing the contract, the following requirements are
16 met:

17 “(A) The space is renovated for all energy
18 efficiency and conservation improvements that
19 would be cost effective over the life of the lease,
20 including improvements in lighting, windows,
21 and heating, ventilation, and air conditioning
22 systems.

23 “(B)(i) Subject to clause (ii), the space is
24 benchmarked under a nationally recognized, on-
25 line, free benchmarking program, with public

disclosure, unless the space is a space for which owners cannot access whole building utility consumption data, including spaces—

“(I) that are located in States with privacy laws that provide that utilities shall not provide such aggregated information to multitenant building owners; and

“(II) for which tenants do not provide energy consumption information to the commercial building owner in response to a request from the building owner.

“(ii) A Federal agency that is a tenant of the space shall provide to the building owner, or authorize the owner to obtain from the utility, the energy consumption information of the space for the benchmarking and disclosure required by this subparagraph.”.

(b) DEPARTMENT OF ENERGY STUDY.—

(1) IN GENERAL.—Not later than 2 years after the date of enactment of this Act, the Secretary shall complete a study, with opportunity for public comment—

(A) on the impact of—

(i) State and local performance benchmarking and disclosure policies, and

1 any associated building efficiency policies,
2 for commercial and multifamily buildings;
3 and

4 (ii) programs and systems in which
5 utilities provide aggregated information re-
6 garding whole building energy consumption
7 and usage information to owners of multi-
8 tenant commercial, residential, and mixed-
9 use buildings;

10 (B) that identifies best practice policy ap-
11 proaches studied under subparagraph (A) that
12 have resulted in the greatest improvements in
13 building energy efficiency; and

14 (C) that considers—

15 (i) compliance rates and the benefits
16 and costs of the policies and programs on
17 building owners, utilities, tenants, and
18 other parties;

19 (ii) utility practices, programs, and
20 systems that provide aggregated energy
21 consumption information to multitenant
22 building owners, and the impact of public
23 utility commissions and State privacy laws
24 on those practices, programs, and systems;

- 1 (iii) exceptions to compliance in exist-
2 ing laws where building owners are not
3 able to gather or access whole building en-
4 ergy information from tenants or utilities;
- 5 (iv) the treatment of buildings with—
6 (I) multiple uses;
7 (II) uses for which baseline infor-
8 mation is not available; and
9 (III) uses that require high levels
10 of energy intensities, such as data
11 centers, trading floors, and televisions
12 studios;
- 13 (v) implementation practices, includ-
14 ing disclosure methods and phase-in of
15 compliance;
- 16 (vi) the safety and security of
17 benchmarking tools offered by government
18 agencies, and the resiliency of those tools
19 against cyber-attacks; and
- 20 (vii) international experiences with re-
21 gard to building benchmarking and disclo-
22 sure laws and data aggregation for multi-
23 tenant buildings.

1 (2) SUBMISSION TO CONGRESS.—At the conclu-
2 sion of the study, the Secretary shall submit to Con-
3 gress a report on the results of the study.

4 (c) CREATION AND MAINTENANCE OF DATABASES.—

5 (1) IN GENERAL.—Not later than 18 months
6 after the date of enactment of this Act and following
7 opportunity for public notice and comment, the Sec-
8 retary, in coordination with other relevant agencies
9 shall, to carry out the purpose described in para-
10 graph (2)—

11 (A) assess existing databases; and

12 (B) as necessary—

13 (i) modify and maintain existing data-
14 bases; or

15 (ii) create and maintain a new data-
16 base platform.

17 (2) PURPOSE.—The maintenance of existing
18 databases or creation of a new database platform
19 under paragraph (1) shall be for the purpose of stor-
20 ing and making available public energy-related infor-
21 mation on commercial and multifamily buildings, in-
22 cluding—

23 (A) data provided under Federal, State,
24 local, and other laws or programs regarding

1 building benchmarking and energy information
2 disclosure;

3 (B) buildings that have received energy
4 ratings and certifications; and

5 (C) energy-related information on buildings
6 provided voluntarily by the owners of the build-
7 ings, in an anonymous form, unless the owner
8 provides otherwise.

9 (d) COMPETITIVE AWARDS.—Based on the results of
10 the research for the portion of the study described in sub-
11 section (b)(1)(A)(ii), and with criteria developed following
12 public notice and comment, the Secretary may make com-
13 petitive awards to utilities, utility regulators, and utility
14 partners to develop and implement effective and promising
15 programs to provide aggregated whole building energy
16 consumption information to multitenant building owners.

17 (e) INPUT FROM STAKEHOLDERS.—The Secretary
18 shall seek input from stakeholders to maximize the effec-
19 tiveness of the actions taken under this section.

20 (f) REPORT.—Not later than 2 years after the date
21 of enactment of this Act, and every 2 years thereafter,
22 the Secretary shall submit to Congress a report on the
23 progress made in complying with this section.

24 (g) AUTHORIZATION OF APPROPRIATIONS.—There is
25 authorized to be appropriated to carry out subsection (b)

1 \$2,500,000 for each of fiscal years 2014 through 2018,
2 to remain available until expended.

3 **TITLE II—INDUSTRIAL EFFI-**
4 **CIENCY AND COMPETITIVE-**
5 **NESS**

6 **Subtitle A—Manufacturing Energy**
7 **Efficiency**

8 **SEC. 201. PURPOSES.**

9 The purposes of this subtitle are—

10 (1) to reform and reorient the industrial effi-
11 ciency programs of the Department of Energy;

12 (2) to establish a clear and consistent authority
13 for industrial efficiency programs of the Depart-
14 ment;

15 (3) to accelerate the deployment of technologies
16 and practices that will increase industrial energy ef-
17 ficiency and improve productivity;

18 (4) to accelerate the development and dem-
19 onstration of technologies that will assist the deploy-
20 ment goals of the industrial efficiency programs of
21 the Department and increase manufacturing effi-
22 ciency;

23 (5) to stimulate domestic economic growth and
24 improve industrial productivity and competitiveness;
25 and

1 (6) to strengthen partnerships between Federal
 2 and State governmental agencies and the private
 3 and academic sectors.

4 **SEC. 202. FUTURE OF INDUSTRY PROGRAM.**

5 (a) IN GENERAL.—Section 452 of the Energy Inde-
 6 pendence and Security Act of 2007 (42 U.S.C. 17111) is
 7 amended by striking the section heading and inserting the
 8 following: “**FUTURE OF INDUSTRY PROGRAM**”.

9 (b) DEFINITION OF ENERGY SERVICE PROVIDER.—
 10 Section 452(a) of the Energy Independence and Security
 11 Act of 2007 (42 U.S.C. 17111(a)) is amended—

12 (1) by redesignating paragraphs (3) through
 13 (5) as paragraphs (4) through (6), respectively; and
 14 (2) by inserting after paragraph (2):

15 “(3) ENERGY SERVICE PROVIDER.—The term
 16 ‘energy service provider’ means any business pro-
 17 viding technology or services to improve the energy
 18 efficiency, power factor, or load management of a
 19 manufacturing site or other industrial process in an
 20 energy-intensive industry, or any utility operating
 21 under a utility energy service project.”.

22 (c) INDUSTRIAL RESEARCH AND ASSESSMENT CEN-
 23 TERS.—Section 452(e) of the Energy Independence and
 24 Security Act of 2007 (42 U.S.C. 17111(e)) is amended—

1 (1) by redesignating paragraphs (1) through
 2 (5) as subparagraphs (A) through (E), respectively,
 3 and indenting appropriately;

4 (2) by striking “The Secretary” and inserting
 5 the following:

6 “(1) IN GENERAL.—The Secretary”;

7 (3) in subparagraph (A) (as redesignated by
 8 paragraph (1)), by inserting before the semicolon at
 9 the end the following: “, including assessments of
 10 sustainable manufacturing goals and the implemen-
 11 tation of information technology advancements for
 12 supply chain analysis, logistics, system monitoring,
 13 industrial and manufacturing processes, and other
 14 purposes”; and

15 (4) by adding at the end the following:

16 “(2) COORDINATION.—

17 “(A) IN GENERAL.—To increase the value
 18 and capabilities of the industrial research and
 19 assessment centers, the centers shall—

20 “(i) coordinate with Manufacturing
 21 Extension Partnership Centers of the Na-
 22 tional Institute of Standards and Tech-
 23 nology;

24 “(ii) coordinate with the Building
 25 Technologies Program of the Department

1 of Energy to provide building assessment
2 services to manufacturers;

3 “(iii) increase partnerships with the
4 National Laboratories of the Department
5 of Energy to leverage the expertise and
6 technologies of the National Laboratories
7 for national industrial and manufacturing
8 needs;

9 “(iv) increase partnerships with en-
10 ergy service providers and technology pro-
11 viders to leverage private sector expertise
12 and accelerate deployment of new and ex-
13 isting technologies and processes for en-
14 ergy efficiency, power factor, and load
15 management;

16 “(v) identify opportunities for reduc-
17 ing greenhouse gas emissions; and

18 “(vi) promote sustainable manufac-
19 turing practices for small- and medium-
20 sized manufacturers.

21 “(3) OUTREACH.—The Secretary shall provide
22 funding for—

23 “(A) outreach activities by the industrial
24 research and assessment centers to inform
25 small- and medium-sized manufacturers of the

1 information, technologies, and services avail-
2 able; and

3 “(B) coordination activities by each indus-
4 trial research and assessment center to leverage
5 efforts with—

6 “(i) Federal and State efforts;

7 “(ii) the efforts of utilities and energy
8 service providers;

9 “(iii) the efforts of regional energy ef-
10 ficiency organizations; and

11 “(iv) the efforts of other industrial re-
12 search and assessment centers.

13 “(4) WORKFORCE TRAINING.—

14 “(A) IN GENERAL.—The Secretary shall
15 pay the Federal share of associated internship
16 programs under which students work with or
17 for industries, manufacturers, and energy serv-
18 ice providers to implement the recommendations
19 of industrial research and assessment centers.

20 “(B) FEDERAL SHARE.—The Federal
21 share of the cost of carrying out internship pro-
22 grams described in subparagraph (A) shall be
23 50 percent.

24 “(5) SMALL BUSINESS LOANS.—The Adminis-
25 trator of the Small Business Administration shall, to

1 the maximum extent practicable, expedite consider-
 2 ation of applications from eligible small business
 3 concerns for loans under the Small Business Act (15
 4 U.S.C. 631 et seq.) to implement recommendations
 5 of industrial research and assessment centers estab-
 6 lished under paragraph (1).

7 “(6) ADVANCED MANUFACTURING STEERING
 8 COMMITTEE.—The Secretary shall establish an advi-
 9 sory steering committee to provide recommendations
 10 to the Secretary on planning and implementation of
 11 the Advanced Manufacturing Office of the Depart-
 12 ment of Energy.”.

13 **SEC. 203. SUSTAINABLE MANUFACTURING INITIATIVE.**

14 (a) IN GENERAL.—Part E of title III of the Energy
 15 Policy and Conservation Act (42 U.S.C. 6341) is amended
 16 by adding at the end the following:

17 **“SEC. 376. SUSTAINABLE MANUFACTURING INITIATIVE.**

18 “(a) IN GENERAL.—As part of the Office of Energy
 19 Efficiency and Renewable Energy, the Secretary, on the
 20 request of a manufacturer, shall conduct onsite technical
 21 assessments to identify opportunities for—

22 “(1) maximizing the energy efficiency of indus-
 23 trial processes and cross-cutting systems;

24 “(2) preventing pollution and minimizing waste;

1 “(3) improving efficient use of water in manu-
2 facturing processes;

3 “(4) conserving natural resources; and

4 “(5) achieving such other goals as the Secretary
5 determines to be appropriate.

6 “(b) COORDINATION.—The Secretary shall carry out
7 the initiative in coordination with the private sector and
8 appropriate agencies, including the National Institute of
9 Standards and Technology, to accelerate adoption of new
10 and existing technologies and processes that improve en-
11 ergy efficiency.

12 “(c) RESEARCH AND DEVELOPMENT PROGRAM FOR
13 SUSTAINABLE MANUFACTURING AND INDUSTRIAL TECH-
14 NOLOGIES AND PROCESSES.—As part of the industrial ef-
15 ficiency programs of the Department of Energy, the Sec-
16 retary shall carry out a joint industry-government partner-
17 ship program to research, develop, and demonstrate new
18 sustainable manufacturing and industrial technologies and
19 processes that maximize the energy efficiency of industrial
20 plants, reduce pollution, and conserve natural resources.”.

21 (b) TABLE OF CONTENTS.—The table of contents of
22 the Energy Policy and Conservation Act (42 U.S.C. prec.
23 6201) is amended by adding at the end of the items relat-
24 ing to part E of title III the following:

“Sec. 376. Sustainable manufacturing initiative.”.

1 **SEC. 204. CONFORMING AMENDMENTS.**

2 (a) Section 106 of the Energy Policy Act of 2005 (42
3 U.S.C. 15811) is repealed.

4 (b) Sections 131, 132, 133, 2103, and 2107 of the
5 Energy Policy Act of 1992 (42 U.S.C. 6348, 6349, 6350,
6 13453, 13456) are repealed.

7 (c) Section 2101(a) of the Energy Policy Act of 1992
8 (42 U.S.C. 13451(a)) is amended in the third sentence
9 by striking “sections 2102, 2103, 2104, 2105, 2106,
10 2107, and 2108” and inserting “sections 2102, 2104,
11 2105, 2106, and 2108 of this Act and section 376 of the
12 Energy Policy and Conservation Act,”.

13 **Subtitle B—Supply Star**

14 **SEC. 211. SUPPLY STAR.**

15 The Energy Policy and Conservation Act is amended
16 by inserting after section 324A (42 U.S.C. 6294a) the fol-
17 lowing:

18 **“SEC. 324B. SUPPLY STAR PROGRAM.**

19 “(a) IN GENERAL.—There is established within the
20 Department of Energy a Supply Star program to identify
21 and promote practices, recognize companies, and, as ap-
22 propriate, recognize products that use highly efficient sup-
23 ply chains in a manner that conserves energy, water, and
24 other resources.

25 “(b) COORDINATION.—In carrying out the program
26 described in subsection (a), the Secretary shall—

1 “(1) consult with other appropriate agencies;
2 and

3 “(2) coordinate efforts with the Energy Star
4 program established under section 324A.

5 “(c) DUTIES.—In carrying out the Supply Star pro-
6 gram described in subsection (a), the Secretary shall—

7 “(1) promote practices, recognize companies,
8 and, as appropriate, recognize products that comply
9 with the Supply Star program as the preferred prac-
10 tices, companies, and products in the marketplace
11 for maximizing supply chain efficiency;

12 “(2) work to enhance industry and public
13 awareness of the Supply Star program;

14 “(3) collect and disseminate data on supply
15 chain energy resource consumption;

16 “(4) develop and disseminate metrics, proc-
17 esses, and analytical tools (including software) for
18 evaluating supply chain energy resource use;

19 “(5) develop guidance at the sector level for im-
20 proving supply chain efficiency;

21 “(6) work with domestic and international orga-
22 nizations to harmonize approaches to analyzing sup-
23 ply chain efficiency, including the development of a
24 consistent set of tools, templates, calculators, and
25 databases; and

1 “(7) work with industry, including small busi-
2 nesses, to improve supply chain efficiency through
3 activities that include—

4 “(A) developing and sharing best practices;
5 and

6 “(B) providing opportunities to benchmark
7 supply chain efficiency.

8 “(d) EVALUATION.—In any evaluation of supply
9 chain efficiency carried out by the Secretary with respect
10 to a specific product, the Secretary shall consider energy
11 consumption and resource use throughout the entire
12 lifecycle of a product, including production, transport,
13 packaging, use, and disposal.

14 “(e) GRANTS AND INCENTIVES.—

15 “(1) IN GENERAL.—The Secretary may award
16 grants or other forms of incentives on a competitive
17 basis to eligible entities, as determined by the Sec-
18 retary, for the purposes of—

19 “(A) studying supply chain energy resource
20 efficiency; and

21 “(B) demonstrating and achieving reduc-
22 tions in the energy resource consumption of
23 commercial products through changes and im-
24 provements to the production supply and dis-
25 tribution chain of the products.

18 **Subtitle C—Electric Motor Rebate**
19 **Program**

20 SEC. 221. ENERGY SAVING MOTOR CONTROL, ELECTRIC
21 MOTOR, AND ADVANCED MOTOR SYSTEMS
22 REBATE PROGRAM.

(a) DEFINITIONS.—In this section:

(1) ADVANCED MOTOR AND DRIVE SYSTEM.—

The term “advanced motor and drive system” means

1 an electric motor and any required associated elec-
2 tronic control that—

3 (A) offers variable or multiple speed oper-
4 ation;

5 (B) offers efficiency at a rated full load
6 that is greater than the efficiency described for
7 the equivalent rating in—

8 (i) table 12–12 of National Electrical
9 Manufacturers Association (NEMA MG 1–
10 2011); or

11 (ii) section 431.446 of National Elec-
12 trical Manufacturers Association (2012);
13 and

14 (C) uses—

15 (i) permanent magnet alternating cur-
16 rent synchronous motor technology;

17 (ii) electronically commutated motor
18 technology;

19 (iii) switched reluctance motor tech-
20 nology;

21 (iv) synchronous reluctance motor
22 technology; or

23 (v) such other motor that has greater
24 than 1 horsepower and uses a drive sys-

1 tems technology, as determined by the Sec-
2 retary.

3 (2) ELECTRIC MOTOR.—The term “electric
4 motor” has the meaning given the term in section
5 431.12 of title 10, Code of Federal Regulations (as
6 in effect on the date of enactment of this Act).

7 (3) QUALIFIED PRODUCT.—The term “qualified
8 product” means—

9 (A) a new constant speed electric motor
10 control that—

11 (i) is attached to an electric motor;

12 and

13 (ii) reduces the energy use of the elec-
14 tric motor by not less than 5 percent; and

15 (B) commercial or industrial machinery or
16 equipment that—

17 (i) is manufactured and incorporates
18 an advanced motor and drive system that
19 has greater than 1 horsepower into a rede-
20 signed machine or equipment that did not
21 previously make use of the advanced motor
22 and drive system; or

23 (ii) was previously used and placed
24 back into service in calendar year 2014 or
25 2015 that upgrades the existing machine

1 or equipment with an advanced motor and
2 drive system.

3 (b) ESTABLISHMENT.—Not later than 90 days after
4 the date of enactment of this Act, the Secretary shall es-
5 tablish a program to provide rebates for expenditures
6 made by qualified entities for the purchase and installa-
7 tion of qualified products.

8 (c) QUALIFIED ENTITIES.—A qualified entity under
9 this section shall be—

10 (1) in the case of a qualified product described
11 in subsection (a)(3)(A), the purchaser of the quali-
12 fied product for whom the qualified product is in-
13 stalled; and

14 (2) in the case of a qualified product described
15 in subsection (a)(3)(B)), the manufacturer of the
16 machine or equipment that incorporated the ad-
17 vanced motor and drive system into the machine or
18 equipment.

19 (d) REQUIREMENTS.—

20 (1) APPLICATION.—To be eligible to receive a
21 rebate under this section, a qualified entity shall
22 submit to the Secretary or an entity designated by
23 the Secretary an application and certification in
24 such form, at such time, and containing such infor-
25 mation as the Secretary may require, including dem-

1 onstrated evidence that the qualified entity pur-
2 chased a qualified product and—

3 (A) in the case of a qualified product de-
4 scribed in subsection (a)(3)(A)—

5 (i) demonstrated evidence that the
6 qualified entity installed the qualified prod-
7 uct in calendar year 2014 or 2015;

8 (ii) demonstrated evidence that the
9 qualified product reduces motor energy use
10 by not less than 5 percent, in accordance
11 with procedures approved by the Secretary;
12 and

13 (iii) the serial number, manufacturer,
14 and model number from the nameplate of
15 the installed motor of the qualified entity
16 on which the qualified product was in-
17 stalled; and

18 (B) in the case of a qualified product de-
19 scribed in subsection (a)(3)(B)—

20 (i) demonstrated evidence that the
21 manufacturer—

22 (I) redesigned a machine or
23 equipment of a manufacturer that did
24 not previously make use of an ad-
25 vanced motor and drive system; or

1 (II) upgraded a used machine or
2 equipment to incorporate an advanced
3 motor and drive system;

4 (ii) demonstrated evidence that the
5 qualified product was sold, installed, or
6 placed back into service in calendar year
7 2014 or 2015; and

8 (iii) the serial number, manufacturer,
9 and model number from the nameplate of
10 the installed motor of the qualified entity
11 with which the advanced motor and drive
12 system is integrated.

13 (2) AUTHORIZED AMOUNT OF REBATE.—The
14 Secretary may provide to a qualified entity that has
15 satisfied the requirements of paragraph (1) a rebate
16 the amount of which shall be equal to the product
17 obtained by multiplying—

18 (A) the nameplate rated horsepower of—

19 (i) the electric motor to which the new
20 constant speed electric motor control is at-
21 tached;

22 (ii) the new electric motor that re-
23 placed a previously installed electric motor;
24 or

1 (iii) the advanced electric motor con-
 2 trol system; and

3 (B) \$25.

4 (3) MAXIMUM AGGREGATE AMOUNT.—No entity
 5 shall be entitled to aggregate rebates under this sec-
 6 tion in excess of \$250,000.

7 (e) AUTHORIZATION OF APPROPRIATIONS.—There is
 8 authorized to be appropriated to carry out this section
 9 \$5,000,000 for each of fiscal years 2014 and 2015, to re-
 10 main available until expended.

11 **Subtitle D—Transformer Rebate** 12 **Program**

13 **SEC. 231. ENERGY EFFICIENT TRANSFORMER REBATE PRO-** 14 **GRAM.**

15 (a) DEFINITION OF QUALIFIED TRANSFORMER.—In
 16 this section, the term “qualified transformer” means a
 17 transformer that meets or exceeds the National Electrical
 18 Manufacturers Association (NEMA) Premium Efficiency
 19 designation, calculated to 2 decimal points, as having 30
 20 percent fewer losses than the NEMA TP–1–2002 effi-
 21 ciency standard for a transformer of the same number of
 22 phases and capacity, as measured in kilovolt-amperes.

23 (b) ESTABLISHMENT.—Not later than January 1,
 24 2014, the Secretary shall establish a program under which
 25 rebates are provided for expenditures made by owners of

1 industrial or manufacturing facilities, commercial build-
 2 ings, and multifamily residential buildings for the pur-
 3 chase and installation of a new energy efficient trans-
 4 formers.

5 (c) REQUIREMENTS.—

6 (1) APPLICATION.—To be eligible to receive a
 7 rebate under this section, an owner shall submit to
 8 the Secretary an application in such form, at such
 9 time, and containing such information as the Sec-
 10 retary may require, including demonstrated evidence
 11 that the owner purchased a qualified transformer.

12 (2) AUTHORIZED AMOUNT OF REBATE.—For
 13 qualified transformers, rebates, in dollars per kilo-
 14 volt-ampere (referred to in this paragraph as
 15 “kVA”) shall be—

16 (A) for 3-phase transformers—

17 (i) with a capacity of not greater than
 18 10 kVA, 15;

19 (ii) with a capacity of not less than 10
 20 kVA and not greater than 100 kVA, the
 21 difference between 15 and the quotient ob-
 22 tained by dividing—

23 (I) the difference between—

24 (aa) the capacity of the
 25 transformer in kVA; and

1 (bb) 10; by

2 (II) 9; and

3 (iii) with a capacity greater than or
4 equal to 100 kVA, 5; and

5 (B) for single-phase transformers, 75 per-
6 cent of the rebate for a 3-phase transformer of
7 the same capacity.

8 (d) AUTHORIZATION OF APPROPRIATIONS.—There is
9 authorized to be appropriated to carry out this section
10 \$5,000,000 for each of fiscal years 2014 and 2015, to re-
11 main available until expended.

12 (e) TERMINATION OF EFFECTIVENESS.—The author-
13 ity provided by this section terminates effective December
14 31, 2015.

15 **TITLE III—FEDERAL AGENCY** 16 **ENERGY EFFICIENCY**

17 **SEC. 301. ENERGY-EFFICIENT AND ENERGY-SAVING INFOR-** 18 **MATION TECHNOLOGIES.**

19 Section 543 of the National Energy Conservation
20 Policy Act (42 U.S.C. 8253) is amended—

21 (1) by redesignating the second subsection (f)
22 (relating to large capital energy investments) as sub-
23 section (g); and

24 (2) by adding at the end the following:

1 “(h) FEDERAL IMPLEMENTATION STRATEGY FOR
2 ENERGY-EFFICIENT AND ENERGY-SAVING INFORMATION
3 TECHNOLOGIES.—

4 “(1) DEFINITIONS.—In this subsection:

5 “(A) DIRECTOR.—The term ‘Director’
6 means the Director of the Office of Manage-
7 ment and Budget.

8 “(B) INFORMATION TECHNOLOGY.—The
9 term ‘information technology’ has the meaning
10 given the term in section 11101 of title 40,
11 United States Code.

12 “(2) DEVELOPMENT OF IMPLEMENTATION
13 STRATEGY.—Not later than 1 year after the date of
14 enactment of this subsection, each Federal agency
15 shall collaborate with the Director to develop an im-
16 plementation strategy (including best-practices and
17 measurement and verification techniques) for the
18 maintenance, purchase, and use by the Federal
19 agency of energy-efficient and energy-saving infor-
20 mation technologies.

21 “(3) ADMINISTRATION.—In developing an im-
22 plementation strategy, each Federal agency shall
23 consider—

24 “(A) advanced metering infrastructure;

1 “(B) energy efficient data center strategies
2 and methods of increasing asset and infrastruc-
3 ture utilization;

4 “(C) advanced power management tools;

5 “(D) building information modeling, in-
6 cluding building energy management; and

7 “(E) secure telework and travel substi-
8 tution tools.

9 “(4) PERFORMANCE GOALS.—

10 “(A) IN GENERAL.—Not later than Sep-
11 tember 30, 2014, the Director, in consultation
12 with the Secretary, shall establish performance
13 goals for evaluating the efforts of Federal agen-
14 cies in improving the maintenance, purchase,
15 and use of energy-efficient and energy-saving
16 information technology systems.

17 “(B) BEST PRACTICES.—The Chief Infor-
18 mation Officers Council established under sec-
19 tion 3603 of title 44, United States Code, shall
20 supplement the performance goals established
21 under this paragraph with recommendations on
22 best practices for the attainment of the per-
23 formance goals, to include a requirement for
24 agencies to consider the use of—

1 “(i) energy savings performance con-
2 tracting; and

3 “(ii) utility energy services con-
4 tracting.

5 “(5) REPORTS.—

6 “(A) AGENCY REPORTS.—Each Federal
7 agency subject to the requirements of this sub-
8 section shall include in the report of the agency
9 under section 527 of the Energy Independence
10 and Security Act of 2007 (42 U.S.C. 17143) a
11 description of the efforts and results of the
12 agency under this subsection.

13 “(B) OMB GOVERNMENT EFFICIENCY RE-
14 PORTS AND SCORECARDS.—Effective beginning
15 not later than October 1, 2014, the Director
16 shall include in the annual report and scorecard
17 of the Director required under section 528 of
18 the Energy Independence and Security Act of
19 2007 (42 U.S.C. 17144) a description of the ef-
20 forts and results of Federal agencies under this
21 subsection.

22 “(C) USE OF EXISTING REPORTING STRUC-
23 TURES.—The Director may require Federal
24 agencies to submit any information required to
25 be submitted under this subsection though re-

1 porting structures in use as of the date of en-
2 actment of the Energy Savings and Industrial
3 Competitiveness Act of 2014.”.

4 **SEC. 302. AVAILABILITY OF FUNDS FOR DESIGN UPDATES.**

5 Section 3307 of title 40, United States Code, is
6 amended—

7 (1) by redesignating subsections (d) through (h)
8 as subsections (e) through (i), respectively; and

9 (2) by inserting after subsection (c) the fol-
10 lowing:

11 “(d) AVAILABILITY OF FUNDS FOR DESIGN UP-
12 DATES.—

13 “(1) IN GENERAL.—Subject to paragraph (2),
14 for any project for which congressional approval is
15 received under subsection (a) and for which the de-
16 sign has been substantially completed but construc-
17 tion has not begun, the Administrator of General
18 Services may use appropriated funds to update the
19 project design to meet applicable Federal building
20 energy efficiency standards established under section
21 305 of the Energy Conservation and Production Act
22 (42 U.S.C. 6834) and other requirements estab-
23 lished under section 3312.

24 “(2) LIMITATION.—The use of funds under
25 paragraph (1) shall not exceed 125 percent of the

1 estimated energy or other cost savings associated
 2 with the updates as determined by a life cycle cost
 3 analysis under section 544 of the National Energy
 4 Conservation Policy Act (42 U.S.C. 8254).”.

5 **SEC. 303. ENERGY EFFICIENT DATA CENTERS.**

6 Section 453 of the Energy Independence and Security
 7 Act of 2007 (42 U.S.C. 17112) is amended—

8 (1) in subsection (c), by striking paragraph (1)
 9 and inserting the following:

10 “(1) IN GENERAL.—Not later than 30 days
 11 after the date of enactment of the Energy Savings
 12 and Industrial Competitiveness Act of 2014, the
 13 Secretary and the Administrator shall—

14 “(A) designate an established information
 15 technology industry organization to coordinate
 16 the program described in subsection (b); and

17 “(B) make the designation public, includ-
 18 ing on an appropriate website.”;

19 (2) by striking subsections (e) and (f) and in-
 20 serting the following:

21 “(e) STUDY.—The Secretary, with assistance from
 22 the Administrator, shall—

23 “(1) not later than December 31, 2014, make
 24 available to the public an update to the Report to
 25 Congress on Server and Data Center Energy Effi-

1 ciency published on August 2, 2007, under section
2 1 of Public Law 109–431 (120 Stat. 2920), that
3 provides—

4 “(A) a comparison and gap analysis of the
5 estimates and projections contained in the origi-
6 nal report with new data regarding the period
7 from 2007 through 2013;

8 “(B) an analysis considering the impact of
9 information technologies, to include
10 virtualization and cloud computing, in the pub-
11 lic and private sectors; and

12 “(C) updated projections and recommenda-
13 tions for best practices through fiscal year
14 2020; and

15 “(2) collaborate with the organization des-
16 ignated under subsection (c) in preparing the report.

17 “(f) DATA CENTER ENERGY PRACTITIONER PRO-
18 GRAM.—

19 “(1) IN GENERAL.—The Secretary, in collabo-
20 ration with the organization designated under sub-
21 section (c) and in consultation with the Adminis-
22 trator for the Office of E-Government and Informa-
23 tion Technology within the Office of Management
24 and Budget, shall maintain a data center energy
25 practitioner program that leads to the certification

1 of energy practitioners qualified to evaluate the en-
2 ergy usage and efficiency opportunities in data cen-
3 ters.

4 “(2) EVALUATIONS.—Each Federal agency
5 shall consider having the data centers of the agency
6 evaluated every 4 years by energy practitioners cer-
7 tified pursuant to the program, whenever practicable
8 using certified practitioners employed by the agen-
9 cy.”;

10 (3) by redesignating subsection (g) as sub-
11 section (j); and

12 (4) by inserting after subsection (f) the fol-
13 lowing:

14 “(g) OPEN DATA INITIATIVE.—

15 “(1) IN GENERAL.—The Secretary, in collabo-
16 ration with the organization designated under sub-
17 section (c) and in consultation with the Adminis-
18 trator for the Office of E-Government and Informa-
19 tion Technology within the Office of Management
20 and Budget, shall establish an open data initiative
21 for Federal data center energy usage data, with the
22 purpose of making the data available and accessible
23 in a manner that empowers further data center opti-
24 mization and consolidation.

1 “(2) ADMINISTRATION.—In establishing the ini-
 2 tiative, the Secretary shall consider use of the online
 3 Data Center Maturity Model.

4 “(h) INTERNATIONAL SPECIFICATIONS AND
 5 METRICS.—The Secretary, in collaboration with the orga-
 6 nization designated under subsection (c), shall actively
 7 participate in efforts to harmonize global specifications
 8 and metrics for data center energy efficiency.

9 “(i) DATA CENTER UTILIZATION METRIC.—The Sec-
 10 retary, in collaboration with the organization designated
 11 under subsection (c), shall assist in the development of
 12 an efficiency metric that measures the energy efficiency
 13 of the overall data center.”.

14 **SEC. 304. BUDGET-NEUTRAL DEMONSTRATION PROGRAM**
 15 **FOR ENERGY AND WATER CONSERVATION IM-**
 16 **PROVEMENTS AT MULTIFAMILY RESIDEN-**
 17 **TIAL UNITS.**

18 (a) ESTABLISHMENT.—The Secretary of Housing
 19 and Urban Development (referred to in this section as the
 20 “Secretary”) shall establish a demonstration program
 21 under which, during the period beginning on the date of
 22 enactment of this Act, and ending on September 30, 2017,
 23 the Secretary may enter into budget-neutral, performance-
 24 based agreements that result in a reduction in energy or
 25 water costs with such entities as the Secretary determines

1 to be appropriate under which the entities shall carry out
 2 projects for energy or water conservation improvements at
 3 not more than 20,000 residential units in multifamily
 4 buildings participating in—

5 (1) the project-based rental assistance program
 6 under section 8 of the United States Housing Act of
 7 1937 (42 U.S.C. 1437f), other than assistance pro-
 8 vided under section 8(o) of that Act;

9 (2) the supportive housing for the elderly pro-
 10 gram under section 202 of the Housing Act of 1959
 11 (12 U.S.C. 1701q); or

12 (3) the supportive housing for persons with dis-
 13 abilities program under section 811(d)(2) of the
 14 Cranston-Gonzalez National Affordable Housing Act
 15 (42 U.S.C. 8013(d)(2)).

16 (b) REQUIREMENTS.—

17 (1) PAYMENTS CONTINGENT ON SAVINGS.—

18 (A) IN GENERAL.—The Secretary shall
 19 provide to an entity a payment under an agree-
 20 ment under this section only during applicable
 21 years for which an energy or water cost savings
 22 is achieved with respect to the applicable multi-
 23 family portfolio of properties, as determined by
 24 the Secretary, in accordance with subparagraph
 25 (B).

1 (B) PAYMENT METHODOLOGY.—

2 (i) IN GENERAL.—Each agreement
3 under this section shall include a pay-for-
4 success provision—

5 (I) that will serve as a payment
6 threshold for the term of the agree-
7 ment; and

8 (II) pursuant to which the De-
9 partment of Housing and Urban De-
10 velopment shall share a percentage of
11 the savings at a level determined by
12 the Secretary that is sufficient to
13 cover the administrative costs of car-
14 rying out this section.

15 (ii) LIMITATIONS.—A payment made
16 by the Secretary under an agreement
17 under this section shall—

18 (I) be contingent on documented
19 utility savings; and

20 (II) not exceed the utility savings
21 achieved by the date of the payment,
22 and not previously paid, as a result of
23 the improvements made under the
24 agreement.

(C) THIRD-PARTY VERIFICATION.—Savings payments made by the Secretary under this section shall be based on a measurement and verification protocol that includes at least—

(i) establishment of a weather-normalized and occupancy-normalized utility consumption baseline established preretrofit;

(ii) annual third-party confirmation of actual utility consumption and cost for owner-paid utilities;

(iii) annual third-party validation of the tenant utility allowances in effect during the applicable year and vacancy rates for each unit type; and

(iv) annual third-party determination of savings to the Secretary.

(2) TERM.—The term of an agreement under this section shall be not longer than 12 years.

(3) ENTITY ELIGIBILITY.—The Secretary shall—

(A) establish a competitive process for entering into agreements under this section; and

(B) enter into such agreements only with entities that demonstrate significant experience relating to—

1 (i) financing and operating properties
 2 receiving assistance under a program de-
 3 scribed in subsection (a);

4 (ii) oversight of energy and water con-
 5 servation programs, including oversight of
 6 contractors; and

7 (iii) raising capital for energy and
 8 water conservation improvements from
 9 charitable organizations or private inves-
 10 tors.

11 (4) GEOGRAPHICAL DIVERSITY.—Each agree-
 12 ment entered into under this section shall provide
 13 for the inclusion of properties with the greatest fea-
 14 sible regional and State variance.

15 (c) PLAN AND REPORTS.—

16 (1) PLAN.—Not later than 90 days after the
 17 date of enactment of this Act, the Secretary shall
 18 submit to the Committees on Appropriations of the
 19 House of Representatives and the Senate a detailed
 20 plan for the implementation of this section.

21 (2) REPORTS.—Not later than 1 year after the
 22 date of enactment of this Act, and annually there-
 23 after, the Secretary shall—

24 (A) conduct an evaluation of the program
 25 under this section; and

1 (B) submit to Congress a report describing
 2 each evaluation conducted under subparagraph
 3 (A).

4 (d) FUNDING.—For each fiscal year during which an
 5 agreement under this section is in effect, the Secretary
 6 may use to carry out this section any funds appropriated
 7 to the Secretary for the renewal of contracts under a pro-
 8 gram described in subsection (a).

9 **TITLE IV—REGULATORY**
 10 **PROVISIONS**
 11 **Subtitle A—Third-Party Certifi-**
 12 **cation Under Energy Star Pro-**
 13 **gram**

14 **SEC. 401. THIRD-PARTY CERTIFICATION UNDER ENERGY**
 15 **STAR PROGRAM.**

16 Section 324A of the Energy Policy and Conservation
 17 Act (42 U.S.C. 6294a) is amended by adding at the end
 18 the following:

19 “(e) THIRD-PARTY CERTIFICATION.—

20 “(1) IN GENERAL.—Subject to paragraph (2),
 21 not later than 180 days after the date of enactment
 22 of this subsection, the Administrator shall revise the
 23 certification requirements for the labeling of con-
 24 sumer, home, and office electronic products for pro-
 25 gram partners that have complied with all require-

1 ments of the Energy Star program for a period of
2 at least 18 months.

3 “(2) ADMINISTRATION.—In the case of a pro-
4 gram partner described in paragraph (1), the new
5 requirements under paragraph (1)—

6 “(A) shall not require third-party certifi-
7 cation for a product to be listed; but

8 “(B) may require that test data and other
9 product information be submitted to facilitate
10 product listing and performance verification for
11 a sample of products.

12 “(3) THIRD PARTIES.—Nothing in this sub-
13 section prevents the Administrator from using third
14 parties in the course of the administration of the
15 Energy Star program.

16 “(4) TERMINATION.—

17 “(A) IN GENERAL.—Subject to subpara-
18 graph (B), an exemption from third-party cer-
19 tification provided to a program partner under
20 paragraph (1) shall terminate if the program
21 partner is found to have violated program re-
22 quirements with respect to at least 2 separate
23 models during a 2-year period.

24 “(B) RESUMPTION.—A termination for a
25 program partner under subparagraph (A) shall

1 cease if the program partner complies with all
 2 Energy Star program requirements for a period
 3 of at least 3 years.”.

4 **Subtitle B—Federal Green**
 5 **Buildings**

6 **SEC. 411. HIGH-PERFORMANCE GREEN FEDERAL BUILD-**
 7 **INGS.**

8 Section 436(h) of the Energy Independence and Se-
 9 curity Act of 2007 (42 U.S.C. 17092(h)) is amended—

10 (1) in the subsection heading, by striking “SYS-
 11 TEM” and inserting “SYSTEMS”;

12 (2) by striking paragraph (1) and inserting the
 13 following:

14 “(1) IN GENERAL.—Based on an ongoing re-
 15 view, the Federal Director shall identify and shall
 16 provide to the Secretary pursuant to section
 17 305(a)(3)(D) of the Energy Conservation and Pro-
 18 duction Act (42 U.S.C. 6834(a)(3)(D)), a list of
 19 those certification systems that the Director identi-
 20 fies as the most likely to encourage a comprehensive
 21 and environmentally sound approach to certification
 22 of green buildings.”; and

23 (3) in paragraph (2)—

1 (A) in the matter preceding subparagraph
 2 (A), by striking “system” and inserting “sys-
 3 tems”;

4 (B) by striking subparagraph (A) and in-
 5 serting the following:

6 “(A) an ongoing review provided to the
 7 Secretary pursuant to section 305(a)(3)(D) of
 8 the Energy Conservation and Production Act
 9 (42 U.S.C. 6834(a)(3)(D)), which shall—

10 “(i) be carried out by the Federal Di-
 11 rector to compare and evaluate standards;
 12 and

13 “(ii) allow any developer or adminis-
 14 trator of a rating system or certification
 15 system to be included in the review;”;

16 (C) in subparagraph (E)(v), by striking
 17 “and” after the semicolon at the end;

18 (D) in subparagraph (F), by striking the
 19 period at the end and inserting a semicolon;
 20 and

21 (E) by adding at the end the following:

22 “(G) a finding that, for all credits address-
 23 ing grown, harvested, or mined materials, the
 24 system does not discriminate against the use of

domestic products that have obtained certifications of responsible sourcing; and

“(H) a finding that the system incorporates life-cycle assessment as a credit pathway.”.

Subtitle C—Water Heaters

SEC. 421. GRID-ENABLED WATER HEATERS.

Part B of title III of the Energy Policy and Conservation Act (42 U.S.C. 6291 et seq.) is amended—

(1) in section 325(e), by adding at the end the following:

“(6) ADDITIONAL STANDARDS FOR GRID-ENABLED WATER HEATERS.—

“(A) DEFINITIONS.—In this paragraph:

“(i) ACTIVATION KEY.—The term ‘activation key’ means a physical device or control directly on the water heater, a software code, or a digital communication means—

“(I) that must be activated to enable the product to operate continuously and at its designed specifications and capabilities; and

“(II) without which activation the product will provide not greater

1 than 50 percent of the rated first
2 hour delivery of hot water certified by
3 the manufacturer.

4 “(ii) GRID-ENABLED WATER HEAT-
5 ER.—The term ‘grid-enabled water heater’
6 means an electric resistance water heat-
7 er—

8 “(I) with a rated storage tank
9 volume of more than 75 gallons;

10 “(II) manufactured on or after
11 April 16, 2015;

12 “(III) that has—

13 “(aa) an energy factor of
14 not less than 1.061 minus the
15 product obtained by multi-
16 plying—

17 “(AA) the rated storage
18 volume of the tank, ex-
19 pressed in gallons; and

20 “(BB) 0.00168; or

21 “(bb) an efficiency level
22 equivalent to the energy factor
23 under item (aa) and expressed as
24 a uniform energy descriptor
25 based on the revised test proce-

1 dure for water heaters described
2 in paragraph (5);

3 “(IV) equipped by the manufac-
4 turer with an activation key; and

5 “(V) that bears a permanent
6 label applied by the manufacturer
7 that—

8 “(aa) is made of material
9 not adversely affected by water;

10 “(bb) is attached by means
11 of non-water-soluble adhesive;
12 and

13 “(cc) advises purchasers and
14 end-users of the intended and ap-
15 propriate use of the product with
16 the following notice printed in
17 16.5 point Arial Narrow Bold
18 font:

19 “‘IMPORTANT INFORMATION: This water heater is
20 intended only for use as part of an electric thermal storage
21 or demand response program. It will not provide adequate
22 hot water unless enrolled in such a program and activated
23 by your utility company or another program operator.
24 Confirm the availability of a program in your local area
25 before purchasing or installing this product.’.

1 “(B) REQUIREMENT.—The manufacturer
2 or private labeler shall provide the activation
3 key only to utilities or other companies oper-
4 ating electric thermal storage or demand re-
5 sponse programs that use grid-enabled water
6 heaters.

7 “(C) REPORTS.—

8 “(i) MANUFACTURERS.—The Sec-
9 retary shall require each manufacturer of
10 grid-enabled water heaters to report to the
11 Secretary annually the number of grid-en-
12 abled water heaters that the manufacturer
13 ships each year.

14 “(ii) OPERATORS.—The Secretary
15 shall require utilities and other demand re-
16 sponse and thermal storage program oper-
17 ators to report annually the number of
18 grid-enabled water heaters activated for
19 their programs using forms of the Energy
20 Information Agency or using such other
21 mechanism that the Secretary determines
22 appropriate after an opportunity for notice
23 and comment.

24 “(iii) CONFIDENTIALITY REQUIRE-
25 MENTS.—The Secretary shall treat ship-

1 ment data reported by manufacturers as
2 confidential business information.

3 “(D) PUBLICATION OF INFORMATION.—

4 “(i) IN GENERAL.—In 2017 and
5 2019, the Secretary shall publish an anal-
6 ysis of the data collected under subpara-
7 graph (C) to assess the extent to which
8 shipped products are put into use in de-
9 mand response and thermal storage pro-
10 grams.

11 “(ii) PREVENTION OF PRODUCT DI-
12 VERSION.—If the Secretary determines
13 that sales of grid-enabled water heaters ex-
14 ceed by 15 percent or greater the number
15 of such products activated for use in de-
16 mand response and thermal storage pro-
17 grams annually, the Secretary shall, after
18 opportunity for notice and comment, estab-
19 lish procedures to prevent product diver-
20 sion for non-program purposes.

21 “(E) COMPLIANCE.—

22 “(i) IN GENERAL.—Subparagraphs
23 (A) through (D) shall remain in effect
24 until the Secretary determines under this
25 section that grid-enabled water heaters do

1 not require a separate efficiency require-
2 ment.

3 “(ii) EFFECTIVE DATE.—If the Sec-
4 retary exercises the authority described in
5 clause (i) or amends the efficiency require-
6 ment for grid-enabled water heaters, that
7 action will take effect on the date de-
8 scribed in subsection (m)(4)(A)(ii).

9 “(iii) CONSIDERATION.—In carrying
10 out this section with respect to electric
11 water heaters, the Secretary shall consider
12 the impact on thermal storage and demand
13 response programs, including the con-
14 sequent impact on energy savings, electric
15 bills, electric reliability, integration of re-
16 newable resources, and the environment.

17 “(iv) REQUIREMENTS.—In carrying
18 out this subparagraph, the Secretary shall
19 require that grid-enabled water heaters be
20 equipped with communication capability to
21 enable the grid-enabled water heaters to
22 participate in ancillary services programs if
23 the Secretary determines that the tech-
24 nology is available, practical, and cost-ef-
25 fective.”; and

1 (2) in section 332—

2 (A) in paragraph (5), by striking “or” at
3 the end;

4 (B) in the first paragraph (6), by striking
5 the period at the end and inserting a semicolon;

6 (C) by redesignating the second paragraph
7 (6) as paragraph (7);

8 (D) in subparagraph (B) of paragraph (7)
9 (as so redesignated), by striking the period at
10 the end and inserting “; or”; and

11 (E) by adding at the end the following:

12 “(8) with respect to grid-enabled water heaters
13 that are not used as part of an electric thermal stor-
14 age or demand response program, for any person
15 knowingly and repeatedly—

16 “(A) to distribute activation keys for those
17 grid-enabled water heaters;

18 “(B) otherwise to enable the full operation
19 of those grid-enabled water heaters; or

20 “(C) to remove or render illegible the la-
21 bels of those grid-enabled water heaters.”.

1 Subtitle D—Energy Performance
2 Requirement for Federal Buildings

3 SEC. 431. ENERGY PERFORMANCE REQUIREMENT FOR FED-
4 ERAL BUILDINGS.

5 Section 543 of the National Energy Conservation
6 Policy Act (42 U.S.C. 8253) is amended—

7 (1) by striking subsection (a) and inserting the
8 following:

9 “(a) ENERGY PERFORMANCE REQUIREMENT FOR
10 FEDERAL BUILDINGS.—

11 “(1) REQUIREMENT.—Subject to paragraph
12 (2), each agency shall apply energy conservation
13 measures to, and shall improve the design for the
14 construction of, the Federal buildings of the agency
15 (including each industrial or laboratory facility) so
16 that the energy consumption per gross square foot
17 of the Federal buildings of the agency in fiscal years
18 2006 through 2017 is reduced, as compared with the
19 energy consumption per gross square foot of the
20 Federal buildings of the agency in fiscal year 2003,
21 by the percentage specified in the following table:

“Fiscal Year	Percentage Reduction
2006	2
2007	4
2008	9
2009	12
2010	15
2011	18
2012	21

“Fiscal Year	Percentage Reduction
2013	24
2014	27
2015	30
2016	33
2017	36.

1 “(2) EXCLUSION FOR BUILDINGS WITH ENERGY
2 INTENSIVE ACTIVITIES.—

3 “(A) IN GENERAL.—An agency may ex-
4 clude from the requirements of paragraph (1)
5 any building (including the associated energy
6 consumption and gross square footage) in which
7 energy intensive activities are carried out.

8 “(B) REPORTS.—Each agency shall iden-
9 tify and list in each report made under section
10 548(a) the buildings designated by the agency
11 for exclusion under subparagraph (A).

12 “(3) REVIEW.—Not later than December 31,
13 2017, the Secretary shall—

14 “(A) review the results of the implementa-
15 tion of the energy performance requirements es-
16 tablished under paragraph (1); and

17 “(B) based on the review conducted under
18 subparagraph (A), submit to Congress a report
19 that addresses the feasibility of requiring each
20 agency to apply energy conservation measures
21 to, and improve the design for the construction
22 of, the Federal buildings of the agency (includ-

ing each industrial or laboratory facility) so that the energy consumption per gross square foot of the Federal buildings of the agency in each of fiscal years 2018 through 2030 is reduced, as compared with the energy consumption per gross square foot of the Federal buildings of the agency in the prior fiscal year, by 3 percent.”; and

(2) in subsection (f)—

(A) in paragraph (1)—

(i) by redesignating subparagraphs (E), (F), and (G) as subparagraphs (F), (G), and (H), respectively; and

(ii) by inserting after subparagraph (D) the following:

“(E) ONGOING COMMISSIONING.—The term ‘ongoing commissioning’ means an ongoing process of commissioning using monitored data, the primary goal of which is to ensure continuous optimum performance of a facility, in accordance with design or operating needs, over the useful life of the facility, while meeting facility occupancy requirements.”;

(B) in paragraph (2), by adding at the end the following:

“(C) ENERGY MANAGEMENT SYSTEM.—An energy manager designated under subparagraph (A) shall consider use of a system to manage energy use at the facility and certification of the facility in accordance with the International Organization for Standardization standard numbered 50001 and entitled ‘Energy Management Systems’.”;

(C) by striking paragraphs (3) and (4) and inserting the following:

“(3) ENERGY AND WATER EVALUATIONS AND COMMISSIONING.—

“(A) EVALUATIONS.—Except as provided in subparagraph (B), effective beginning on the date that is 180 days after the date of enactment of the Energy Savings and Industrial Competitiveness Act of 2014, and annually thereafter, each energy manager shall complete, for each calendar year, a comprehensive energy and water evaluation and recommissioning or retrocommissioning for approximately 25 percent of the facilities of each agency that meet the criteria under paragraph (2)(B) in a manner that ensures that an evaluation of each facility is completed at least once every 4 years.

“(B) EXCEPTIONS.—An evaluation and re-commissioning shall not be required under subparagraph (A) with respect to a facility that—

“(i) has had a comprehensive energy and water evaluation during the 8-year period preceding the date of the evaluation;

“(ii)(I) has been commissioned, re-commissioned, or retrocommissioned during the 10-year period preceding the date of the evaluation; or

“(II) is under ongoing commissioning;

“(iii) has not had a major change in function or use since the previous evaluation and commissioning;

“(iv) has been benchmarked with public disclosure under paragraph (8) within the year preceding the evaluation; and

“(v)(I) based on the benchmarking, has achieved at a facility level the most recent cumulative energy savings target under subsection (a) compared to the earlier of—

“(aa) the date of the most recent evaluation; or

“(bb) the date—

1 “(AA) of the most recent
 2 commissioning, recommissioning,
 3 or retrocommissioning; or

4 “(BB) on which ongoing
 5 commissioning began; or

6 “(II) has a long-term contract in
 7 place guaranteeing energy savings at least
 8 as great as the energy savings target under
 9 subclause (I).

10 “(4) IMPLEMENTATION OF IDENTIFIED ENERGY
 11 AND WATER EFFICIENCY MEASURES.—

12 “(A) IN GENERAL.—Not later than 2 years
 13 after the date of completion of each evaluation
 14 under paragraph (3), each energy manager
 15 may—

16 “(i) implement any energy- or water-
 17 saving measure that the Federal agency
 18 identified in the evaluation conducted
 19 under paragraph (3) that is life-cycle cost
 20 effective; and

21 “(ii) bundle individual measures of
 22 varying paybacks together into combined
 23 projects.

24 “(B) MEASURES NOT IMPLEMENTED.—

25 The energy manager shall, as part of the cer-

tification system under paragraph (7), explain the reasons why any life-cycle cost effective measures were not implemented under subparagraph (A) using guidelines developed by the Secretary.”; and

(D) in paragraph (7)(C), by adding at the end the following:

“(iii) SUMMARY REPORT.—The Secretary shall make available a report that summarizes the information tracked under subparagraph (B)(i) by each agency and, as applicable, by each type of measure.”.

SEC. 432. FEDERAL BUILDING ENERGY EFFICIENCY PERFORMANCE STANDARDS; CERTIFICATION SYSTEM AND LEVEL FOR GREEN BUILDINGS.

(a) DEFINITIONS.—Section 303 of the Energy Conservation and Production Act (42 U.S.C. 6832) (as amended by section 101(a)) is amended—

(1) in paragraph (6), by striking “to be constructed” and inserting “constructed or altered”; and

(2) by adding at the end the following:

“(19) MAJOR RENOVATION.—The term ‘major renovation’ means a modification of building energy systems sufficiently extensive that the whole building

1 can meet energy standards for new buildings, based
 2 on criteria to be established by the Secretary
 3 through notice and comment rulemaking.”.

4 (b) FEDERAL BUILDING EFFICIENCY STANDARDS.—
 5 Section 305 of the Energy Conservation and Production
 6 Act (42 U.S.C. 6834) is amended—

7 (1) in subsection (a)(3)—

8 (A) by striking “(3)(A) Not later than”
 9 and all that follows through subparagraph (B)
 10 and inserting the following:

11 “(3) REVISED FEDERAL BUILDING ENERGY EF-
 12 FICIENCY PERFORMANCE STANDARDS; CERTIFI-
 13 CATION FOR GREEN BUILDINGS.—

14 “(A) REVISED FEDERAL BUILDING EN-
 15 ERGY EFFICIENCY PERFORMANCE STAND-
 16 ARDS.—

17 “(i) IN GENERAL.—Not later than 1
 18 year after the date of enactment of the En-
 19 ergy Savings and Industrial Competitive-
 20 ness Act of 2014, the Secretary shall es-
 21 tablish, by rule, revised Federal building
 22 energy efficiency performance standards
 23 that require that—

1 “(I) new Federal buildings and
2 alterations and additions to existing
3 Federal buildings—

4 “(aa) meet or exceed the
5 most recent revision of the Inter-
6 national Energy Conservation
7 Code (in the case of residential
8 buildings) or ASHRAE Standard
9 90.1 (in the case of commercial
10 buildings) as of the date of en-
11 actment of the Energy Savings
12 and Industrial Competitiveness
13 Act of 2014; and

14 “(bb) meet or exceed the en-
15 ergy provisions of State and local
16 building codes applicable to the
17 building, if the codes are more
18 stringent than the International
19 Energy Conservation Code or
20 ASHRAE Standard 90.1, as ap-
21 plicable;

22 “(II) unless demonstrated not to
23 be life-cycle cost effective for new
24 Federal buildings and Federal build-
25 ings with major renovations—

1 “(aa) the buildings be de-
2 signed to achieve energy con-
3 sumption levels that are at least
4 30 percent below the levels estab-
5 lished in the version of the
6 ASHRAE Standard or the Inter-
7 national Energy Conservation
8 Code, as appropriate, that is ap-
9 plied under subclause (I)(aa), in-
10 cluding updates under subpara-
11 graph (B); and

12 “(bb) sustainable design
13 principles are applied to the loca-
14 tion, siting, design, and construc-
15 tion of all new Federal buildings
16 and replacement Federal build-
17 ings;

18 “(III) if water is used to achieve
19 energy efficiency, water conservation
20 technologies shall be applied to the ex-
21 tent that the technologies are life-
22 cycle cost effective;

23 “(IV) if life-cycle cost effective,
24 as compared to other reasonably avail-
25 able technologies, not less than 30

1 percent of the hot water demand for
 2 each new Federal building or Federal
 3 building undergoing a major renova-
 4 tion be met through the installation
 5 and use of solar hot water heaters;
 6 and

7 “(V) in addition to complying
 8 with the other requirements under
 9 this paragraph, unless found not to be
 10 life-cycle cost effective, new Federal
 11 buildings that are at least 5,000
 12 square feet in size shall comply with
 13 the Guiding Principles for Sustainable
 14 New Construction and Major Renova-
 15 tions (as established in the document
 16 entitled High Performance and Sus-
 17 tainable Buildings Guidance (Final)
 18 and dated December 1, 2008).

19 “(ii) LIMITATION.—Clause (i)(I) shall
 20 not apply to unaltered portions of existing
 21 Federal buildings and systems that have
 22 been added to or altered.

23 “(B) UPDATES.—Not later than 1 year
 24 after the date of approval of each subsequent
 25 revision of the ASHRAE Standard or the Inter-

national Energy Conservation Code, as appropriate, the Secretary shall determine whether the revised standards established under subparagraph (A) should be updated to reflect the revisions, based on the energy savings and life-cycle cost-effectiveness of the revisions.”;

(B) in subparagraph (C), by striking “(C) In the budget request” and inserting the following:

“(C) BUDGET REQUEST.—In the budget request”; and

(C) by striking subparagraph (D) and inserting the following:

“(D) CERTIFICATION FOR GREEN BUILDINGS.—

“(i) SUSTAINABLE DESIGN PRINCIPLES.—Sustainable design principles shall be applied to the siting, design, and construction of buildings covered by this subparagraph.

“(ii) SELECTION OF CERTIFICATION SYSTEMS.—The Secretary, after reviewing the findings of the Federal Director under section 436(h) of the Energy Independence and Security Act of 2007 (42 U.S.C.

1 17092(h)), in consultation with the Admin-
2 istrator of General Services, and in con-
3 sultation with the Secretary of Defense re-
4 lating to those facilities under the custody
5 and control of the Department of Defense,
6 shall determine those certification systems
7 for green commercial and residential build-
8 ings that the Secretary determines to be
9 the most likely to encourage a comprehen-
10 sive and environmentally sound approach
11 to certification of green buildings.

12 “(iii) BASIS FOR SELECTION.—The
13 determination of the certification systems
14 under clause (ii) shall be based on ongoing
15 review of the findings of the Federal Direc-
16 tor under section 436(h) of the Energy
17 Independence and Security Act of 2007
18 (42 U.S.C. 17092(h)) and the criteria de-
19 scribed in clause (v).

20 “(iv) ADMINISTRATION.—In deter-
21 mining certification systems under this
22 subparagraph, the Secretary shall—

23 “(I) make a separate determina-
24 tion for all or part of each system;

1 “(II) confirm that the criteria
2 used to support the selection of build-
3 ing products, materials, brands, and
4 technologies are fair and neutral
5 (meaning that such criteria are based
6 on an objective assessment of relevant
7 technical data), do not prohibit, dis-
8 favor, or discriminate against selec-
9 tion based on technically inadequate
10 information to inform human or envi-
11 ronmental risk, and are expressed to
12 prefer performance measures when-
13 ever performance measures may rea-
14 sonably be used in lieu of prescriptive
15 measures; and

16 “(III) use environmental and
17 health criteria that are based on risk
18 assessment methodology that is gen-
19 erally accepted by the applicable sci-
20 entific disciplines.

21 “(v) CONSIDERATIONS.—In deter-
22 mining the green building certification sys-
23 tems under this subparagraph, the Sec-
24 retary shall take into consideration—

1 “(I) the ability and availability of
2 assessors and auditors to independ-
3 ently verify the criteria and measure-
4 ment of metrics at the scale necessary
5 to implement this subparagraph;

6 “(II) the ability of the applicable
7 certification organization to collect
8 and reflect public comment;

9 “(III) the ability of the standard
10 to be developed and revised through a
11 consensus-based process;

12 “(IV) an evaluation of the
13 robustness of the criteria for a high-
14 performance green building, which
15 shall give credit for promoting—

16 “(aa) efficient and sustain-
17 able use of water, energy, and
18 other natural resources;

19 “(bb) use of renewable en-
20 ergy sources;

21 “(cc) improved indoor envi-
22 ronmental quality through en-
23 hanced indoor air quality, ther-
24 mal comfort, acoustics, day light-
25 ing, pollutant source control, and

1 use of low-emission materials and
2 building system controls; and

3 “(dd) such other criteria as
4 the Secretary determines to be
5 appropriate; and

6 “(V) national recognition within
7 the building industry.

8 “(vi) REVIEW.—The Secretary, in
9 consultation with the Administrator of
10 General Services and the Secretary of De-
11 fense, shall conduct an ongoing review to
12 evaluate and compare private sector green
13 building certification systems, taking into
14 account—

15 “(I) the criteria described in
16 clause (v); and

17 “(II) the identification made by
18 the Federal Director under section
19 436(h) of the Energy Independence
20 and Security Act of 2007 (42 U.S.C.
21 17092(h)).

22 “(vii) EXCLUSIONS.—

23 “(I) IN GENERAL.—Subject to
24 subclause (II), if a certification sys-
25 tem fails to meet the review require-

ments of clause (v), the Secretary shall—

“(aa) identify the portions of the system, whether prerequisites, credits, points, or otherwise, that meet the review criteria of clause (v);

“(bb) determine the portions of the system that are suitable for use; and

“(cc) exclude all other portions of the system from identification and use.

“(II) ENTIRE SYSTEMS.—The Secretary shall exclude an entire system from use if an exclusion under subclause (I)—

“(aa) impedes the integrated use of the system;

“(bb) creates disparate review criteria or unequal point access for competing materials; or

“(cc) increases agency costs of the use.

1 “(viii) INTERNAL CERTIFICATION
2 PROCESSES.—The Secretary may by rule
3 allow Federal agencies to develop internal
4 certification processes, using certified pro-
5 fessionals, in lieu of certification by certifi-
6 cation entities identified under clause (ii).

7 “(ix) PRIVATIZED MILITARY HOUS-
8 ING.—With respect to privatized military
9 housing, the Secretary of Defense, after
10 consultation with the Secretary may,
11 through rulemaking, develop alternative
12 certification systems and levels than the
13 systems and levels identified under clause
14 (ii) that achieve an equivalent result in
15 terms of energy savings, sustainable de-
16 sign, and green building performance.

17 “(x) WATER CONSERVATION TECH-
18 NOLOGIES.—In addition to any use of
19 water conservation technologies otherwise
20 required by this section, water conservation
21 technologies shall be applied to the extent
22 that the technologies are life-cycle cost-ef-
23 fective.

24 “(xi) EFFECTIVE DATE.—

1 “(I) DETERMINATIONS MADE
 2 AFTER DECEMBER 31, 2015.—The
 3 amendments made by section
 4 432(b)(1)(C) of the Energy Savings
 5 and Industrial Competitiveness Act of
 6 2014 shall apply to any determination
 7 made by a Federal agency after De-
 8 cember 31, 2015.

9 “(II) DETERMINATIONS MADE ON
 10 OR BEFORE DECEMBER 31, 2015.—
 11 This subparagraph (as in effect on the
 12 day before the date of enactment of
 13 the Energy Savings and Industrial
 14 Competitiveness Act of 2014) shall
 15 apply to any use of a certification sys-
 16 tem for green commercial and residen-
 17 tial buildings by a Federal agency on
 18 or before December 31, 2015.”; and

19 (2) by striking subsections (c) and (d) and in-
 20 serting the following:

21 “(c) PERIODIC REVIEW.—The Secretary shall—

22 “(1) once every 5 years, review the Federal
 23 building energy standards established under this sec-
 24 tion; and

1 “(2) on completion of a review under paragraph
 2 (1), if the Secretary determines that significant en-
 3 ergy savings would result, upgrade the standards to
 4 include all new energy efficiency and renewable en-
 5 ergy measures that are technologically feasible and
 6 economically justified.”.

7 **SEC. 433. ENHANCED ENERGY EFFICIENCY UNDER-**
 8 **WRITING.**

9 (a) DEFINITIONS.—In this section:

10 (1) COVERED AGENCY.—The term “covered
 11 agency”—

12 (A) means—

13 (i) an executive agency, as that term
 14 is defined in section 102 of title 31, United
 15 States Code; and

16 (ii) any other agency of the Federal
 17 Government; and

18 (B) includes any enterprise, as that term is
 19 defined under section 1303 of the Federal
 20 Housing Enterprises Financial Safety and
 21 Soundness Act of 1992 (12 U.S.C. 4502).

22 (2) COVERED LOAN.—The term “covered loan”
 23 means a loan secured by a home that is issued, in-
 24 sured, purchased, or securitized by a covered agency.

1 (3) HOMEOWNER.—The term “homeowner”
2 means the mortgagor under a covered loan.

3 (4) MORTGAGEE.—The term “mortgagee”
4 means—

5 (A) an original lender under a covered loan
6 or the holder of a covered loan at the time at
7 which that mortgage transaction is con-
8 summated;

9 (B) any affiliate, agent, subsidiary, suc-
10 cessor, or assignee of an original lender under
11 a covered loan or the holder of a covered loan
12 at the time at which that mortgage transaction
13 is consummated;

14 (C) any servicer of a covered loan; and

15 (D) any subsequent purchaser, trustee, or
16 transferee of any covered loan issued by an
17 original lender.

18 (5) SECRETARY.—The term “Secretary” means
19 the Secretary of Housing and Urban Development.

20 (6) SERVICER.—The term “servicer” means the
21 person or entity responsible for the servicing of a
22 covered loan, including the person or entity who
23 makes or holds a covered loan if that person or enti-
24 ty also services the covered loan.

1 (7) SERVICING.—The term “servicing” has the
2 meaning given the term in section 6(i) of the Real
3 Estate Settlement Procedures Act of 1974 (12
4 U.S.C. 2605(i)).

5 (b) FINDINGS AND PURPOSES.—

6 (1) FINDINGS.—Congress finds that—

7 (A) energy costs for homeowners are a sig-
8 nificant and increasing portion of their house-
9 hold budgets;

10 (B) household energy use can vary sub-
11 stantially depending on the efficiency and char-
12 acteristics of the house;

13 (C) expected energy cost savings are im-
14 portant to the value of the house;

15 (D) the current test for loan affordability
16 used by most covered agencies, commonly
17 known as the “debt-to-income” test, is inad-
18 equate because it does not take into account the
19 expected energy cost savings for the homeowner
20 of an energy efficient home; and

21 (E) another loan limitation, commonly
22 known as the “loan-to-value” test, is tied to the
23 appraisal, which often does not adjust for effi-
24 ciency features of houses.

1 (2) PURPOSES.—The purposes of this section
2 are to—

3 (A) improve the accuracy of mortgage un-
4 derwriting by Federal mortgage agencies by en-
5 suring that energy cost savings are included in
6 the underwriting process as described below,
7 and thus to reduce the amount of energy con-
8 sumed by homes and to facilitate the creation
9 of energy efficiency retrofit and construction
10 jobs;

11 (B) require a covered agency to include the
12 expected energy cost savings of a homeowner as
13 a regular expense in the tests, such as the debt-
14 to-income test, used to determine the ability of
15 the loan applicant to afford the cost of home-
16 ownership for all loan programs; and

17 (C) require a covered agency to include the
18 value home buyers place on the energy effi-
19 ciency of a house in tests used to compare the
20 mortgage amount to home value, taking pre-
21 cautions to avoid double-counting and to sup-
22 port safe and sound lending.

23 (c) ENHANCED ENERGY EFFICIENCY UNDER-
24 WRITING CRITERIA.—

1 (1) IN GENERAL.—Not later than 1 year after
2 the date of enactment of this Act, the Secretary
3 shall, in consultation with the advisory group estab-
4 lished in subsection (f)(2), develop and issue guide-
5 lines for a covered agency to implement enhanced
6 loan eligibility requirements, for use when testing
7 the ability of a loan applicant to repay a covered
8 loan, that account for the expected energy cost sav-
9 ings for a loan applicant at a subject property, in
10 the manner set forth in paragraphs (2) and (3).

11 (2) REQUIREMENTS TO ACCOUNT FOR ENERGY
12 COST SAVINGS.—The enhanced loan eligibility re-
13 quirements under paragraph (1) shall require that,
14 for all covered loans for which an energy efficiency
15 report is voluntarily provided to the mortgagee by
16 the mortgagor, the covered agency and the mort-
17 gagee shall take into consideration the estimated en-
18 ergy cost savings expected for the owner of the sub-
19 ject property in determining whether the loan appli-
20 cant has sufficient income to service the mortgage
21 debt plus other regular expenses. To the extent that
22 a covered agency uses a test such as a debt-to-in-
23 come test that includes certain regular expenses,
24 such as hazard insurance and property taxes, the ex-
25 pected energy cost savings shall be included as an

1 offset to these expenses. Energy costs to be assessed
2 include the cost of electricity, natural gas, oil, and
3 any other fuel regularly used to supply energy to the
4 subject property.

5 (3) DETERMINATION OF ESTIMATED ENERGY
6 COST SAVINGS.—

7 (A) IN GENERAL.—The guidelines to be
8 issued under paragraph (1) shall include in-
9 structions for the covered agency to calculate
10 estimated energy cost savings using—

11 (i) the energy efficiency report;

12 (ii) an estimate of baseline average
13 energy costs; and

14 (iii) additional sources of information
15 as determined by the Secretary.

16 (B) REPORT REQUIREMENTS.—For the
17 purposes of subparagraph (A), an energy effi-
18 ciency report shall—

19 (i) estimate the expected energy cost
20 savings specific to the subject property,
21 based on specific information about the
22 property;

23 (ii) be prepared in accordance with
24 the guidelines to be issued under para-
25 graph (1); and

1 (iii) be prepared—

2 (I) in accordance with the Resi-
3 dential Energy Service Network's
4 Home Energy Rating System (com-
5 monly known as "HERS") by an indi-
6 vidual certified by the Residential En-
7 ergy Service Network, unless the Sec-
8 retary finds that the use of HERS
9 does not further the purposes of this
10 section; or

11 (II) by other methods approved
12 by the Secretary, in consultation with
13 the Secretary of Energy and the advi-
14 sory group established in subsection
15 (f)(2), for use under this section,
16 which shall include a third-party qual-
17 ity assurance procedure.

18 (C) USE BY APPRAISER.—If an energy ef-
19 ficiency report is used under paragraph (2), the
20 energy efficiency report shall be provided to the
21 appraiser to estimate the energy efficiency of
22 the subject property and for potential adjust-
23 ments for energy efficiency.

24 (4) REQUIRED DISCLOSURE TO CONSUMER FOR
25 A HOME WITH AN ENERGY EFFICIENCY REPORT.—

1 If an energy efficiency report is used under para-
2 graph (2), the guidelines to be issued under para-
3 graph (1) shall require the mortgagee to—

4 (A) inform the loan applicant of the ex-
5 pected energy costs as estimated in the energy
6 efficiency report, in a manner and at a time as
7 prescribed by the Secretary, and if practicable,
8 in the documents delivered at the time of loan
9 application; and

10 (B) include the energy efficiency report in
11 the documentation for the loan provided to the
12 borrower.

13 (5) REQUIRED DISCLOSURE TO CONSUMER FOR
14 A HOME WITHOUT AN ENERGY EFFICIENCY RE-
15 PORT.—If an energy efficiency report is not used
16 under paragraph (2), the guidelines to be issued
17 under paragraph (1) shall require the mortgagee to
18 inform the loan applicant in a manner and at a time
19 as prescribed by the Secretary, and if practicable, in
20 the documents delivered at the time of loan applica-
21 tion of—

22 (A) typical energy cost savings that would
23 be possible from a cost-effective energy upgrade
24 of a home of the size and in the region of the
25 subject property;

1 (B) the impact the typical energy cost sav-
2 ings would have on monthly ownership costs of
3 a typical home;

4 (C) the impact on the size of a mortgage
5 that could be obtained if the typical energy cost
6 savings were reflected in an energy efficiency
7 report; and

8 (D) resources for improving the energy ef-
9 ficiency of a home.

10 (6) PRICING OF LOANS.—

11 (A) IN GENERAL.—A covered agency may
12 price covered loans originated under the en-
13 hanced loan eligibility requirements required
14 under this section in accordance with the esti-
15 mated risk of the loans.

16 (B) IMPOSITION OF CERTAIN MATERIAL
17 COSTS, IMPEDIMENTS, OR PENALTIES.—In the
18 absence of a publicly disclosed analysis that
19 demonstrates significant additional default risk
20 or prepayment risk associated with the loans, a
21 covered agency shall not impose material costs,
22 impediments, or penalties on covered loans
23 merely because the loan uses an energy effi-
24 ciency report or the enhanced loan eligibility re-
25 quirements required under this section.

1 (7) LIMITATIONS.—

2 (A) IN GENERAL.—A covered agency may
3 price covered loans originated under the en-
4 hanced loan eligibility requirements required
5 under this section in accordance with the esti-
6 mated risk of those loans.

7 (B) PROHIBITED ACTIONS.—A covered
8 agency shall not—

9 (i) modify existing underwriting cri-
10 teria or adopt new underwriting criteria
11 that intentionally negate or reduce the im-
12 pact of the requirements or resulting bene-
13 fits that are set forth or otherwise derived
14 from the enhanced loan eligibility require-
15 ments required under this subsection; or

16 (ii) impose greater buy back require-
17 ments, credit overlays, or insurance re-
18 quirements, including private mortgage in-
19 surance, on covered loans merely because
20 the loan uses an energy efficiency report or
21 the enhanced loan eligibility requirements
22 required under this subsection.

23 (8) APPLICABILITY AND IMPLEMENTATION
24 DATE.—Not later than 3 years after the date of en-
25 actment of this Act, and before December 31, 2016,

1 the enhanced loan eligibility requirements required
 2 under this subsection shall be implemented by each
 3 covered agency to—

4 (A) apply to any covered loan for the sale,
 5 or refinancing of any loan for the sale, of any
 6 home;

7 (B) be available on any residential real
 8 property (including individual units of con-
 9 dominiums and cooperatives) that qualifies for
 10 a covered loan; and

11 (C) provide prospective mortgagees with
 12 sufficient guidance and applicable tools to im-
 13 plement the required underwriting methods.

14 (d) ENHANCED ENERGY EFFICIENCY UNDER-
 15 WRITING VALUATION GUIDELINES.—

16 (1) IN GENERAL.—Not later than 1 year after
 17 the date of enactment of this Act, the Secretary
 18 shall—

19 (A) in consultation with the Federal Fi-
 20 nancial Institutions Examination Council and
 21 the advisory group established in subsection
 22 (f)(2), develop and issue guidelines for a cov-
 23 ered agency to determine the maximum per-
 24 mitted loan amount based on the value of the
 25 property for all covered loans made on prop-

1 erties with an energy efficiency report that
2 meets the requirements of subsection (c)(3)(B);
3 and

4 (B) in consultation with the Secretary of
5 Energy, issue guidelines for a covered agency to
6 determine the estimated energy savings under
7 paragraph (3) for properties with an energy ef-
8 ficiency report.

9 (2) REQUIREMENTS.—The enhanced energy ef-
10 ficiency underwriting valuation guidelines required
11 under paragraph (1) shall include—

12 (A) a requirement that if an energy effi-
13 ciency report that meets the requirements of
14 subsection (c)(3)(B) is voluntarily provided to
15 the mortgagee, such report shall be used by the
16 mortgagee or covered agency to determine the
17 estimated energy savings of the subject prop-
18 erty; and

19 (B) a requirement that the estimated en-
20 ergy savings of the subject property be added to
21 the appraised value of the subject property by
22 a mortgagee or covered agency for the purpose
23 of determining the loan-to-value ratio of the
24 subject property, unless the appraisal includes
25 the value of the overall energy efficiency of the

1 subject property, using methods to be estab-
2 lished under the guidelines issued under para-
3 graph (1).

4 (3) DETERMINATION OF ESTIMATED ENERGY
5 SAVINGS.—

6 (A) AMOUNT OF ENERGY SAVINGS.—The
7 amount of estimated energy savings shall be de-
8 termined by calculating the difference between
9 the estimated energy costs for the average com-
10 parable houses, as determined in guidelines to
11 be issued under paragraph (1), and the esti-
12 mated energy costs for the subject property
13 based upon the energy efficiency report.

14 (B) DURATION OF ENERGY SAVINGS.—The
15 duration of the estimated energy savings shall
16 be based upon the estimated life of the applica-
17 ble equipment, consistent with the rating sys-
18 tem used to produce the energy efficiency re-
19 port.

20 (C) PRESENT VALUE OF ENERGY SAV-
21 INGS.—The present value of the future savings
22 shall be discounted using the average interest
23 rate on conventional 30-year mortgages, in the
24 manner directed by guidelines issued under
25 paragraph (1).

1 (4) ENSURING CONSIDERATION OF ENERGY EF-
2 FICIENT FEATURES.—Section 1110 of the Financial
3 Institutions Reform, Recovery, and Enforcement Act
4 of 1989 (12 U.S.C. 3339) is amended—

5 (A) in paragraph (2), by striking “; and”
6 and inserting a semicolon; and

7 (B) in paragraph (3), by striking the pe-
8 riod at the end and inserting “; and” and in-
9 serting after paragraph (3) the following:

10 “(4) that State certified and licensed appraisers
11 have timely access, whenever practicable, to informa-
12 tion from the property owner and the lender that
13 may be relevant in developing an opinion of value re-
14 garding the energy- and water-saving improvements
15 or features of a property, such as—

16 “(A) labels or ratings of buildings;

17 “(B) installed appliances, measures, sys-
18 tems or technologies;

19 “(C) blueprints;

20 “(D) construction costs;

21 “(E) financial or other incentives regard-
22 ing energy- and water-efficient components and
23 systems installed in a property;

24 “(F) utility bills;

1 “(G) energy consumption and
2 benchmarking data; and

3 “(H) third-party verifications or represen-
4 tations of energy and water efficiency perform-
5 ance of a property, observing all financial pri-
6 vacy requirements adhered to by certified and
7 licensed appraisers, including section 501 of the
8 Gramm-Leach-Bliley Act (15 U.S.C. 6801).

9 Unless a property owner consents to a lender, an ap-
10 praiser, in carrying out the requirements of para-
11 graph (4), shall not have access to the commercial
12 or financial information of the owner that is privi-
13 leged or confidential.”.

14 (5) TRANSACTIONS REQUIRING STATE CER-
15 TIFIED APPRAISERS.—Section 1113 of the Financial
16 Institutions Reform, Recovery, and Enforcement Act
17 of 1989 (12 U.S.C. 3342) is amended—

18 (A) in paragraph (1), by inserting before
19 the semicolon the following: “, or any real prop-
20 erty on which the appraiser makes adjustments
21 using an energy efficiency report”; and

22 (B) in paragraph (2), by inserting after
23 “atypical” the following: “, or an appraisal on
24 which the appraiser makes adjustments using
25 an energy efficiency report.”.

1 (6) PROTECTIONS.—

2 (A) AUTHORITY TO IMPOSE LIMITA-
3 TIONS.—The guidelines to be issued under
4 paragraph (1) shall include such limitations and
5 conditions as determined by the Secretary to be
6 necessary to protect against meaningful under
7 or over valuation of energy cost savings or du-
8 plicative counting of energy efficiency features
9 or energy cost savings in the valuation of any
10 subject property that is used to determine a
11 loan amount.

12 (B) ADDITIONAL AUTHORITY.—At the end
13 of the 7-year period following the implementa-
14 tion of enhanced eligibility and underwriting
15 valuation requirements under this section, the
16 Secretary may modify or apply additional ex-
17 ceptions to the approach described in paragraph
18 (2), where the Secretary finds that the
19 unadjusted appraisal will reflect an accurate
20 market value of the efficiency of the subject
21 property or that a modified approach will better
22 reflect an accurate market value.

23 (7) APPLICABILITY AND IMPLEMENTATION
24 DATE.—Not later than 3 years after the date of en-
25 actment of this Act, and before December 31, 2016,

1 each covered agency shall implement the guidelines
2 required under this subsection, which shall—

3 (A) apply to any covered loan for the sale,
4 or refinancing of any loan for the sale, of any
5 home; and

6 (B) be available on any residential real
7 property, including individual units of con-
8 dominiums and cooperatives, that qualifies for a
9 covered loan.

10 (e) MONITORING.—Not later than 1 year after the
11 date on which the enhanced eligibility and underwriting
12 valuation requirements are implemented under this sec-
13 tion, and every year thereafter, each covered agency with
14 relevant activity shall issue and make available to the pub-
15 lic a report that—

16 (1) enumerates the number of covered loans of
17 the agency for which there was an energy efficiency
18 report, and that used energy efficiency appraisal
19 guidelines and enhanced loan eligibility require-
20 ments;

21 (2) includes the default rates and rates of fore-
22 closures for each category of loans; and

23 (3) describes the risk premium, if any, that the
24 agency has priced into covered loans for which there
25 was an energy efficiency report.

1 (f) RULEMAKING.—

2 (1) IN GENERAL.—The Secretary shall pre-
3 scribe regulations to carry out this section, in con-
4 sultation with the Secretary of Energy and the advi-
5 sory group established in paragraph (2), which may
6 contain such classifications, differentiations, or other
7 provisions, and may provide for such proper imple-
8 mentation and appropriate treatment of different
9 types of transactions, as the Secretary determines
10 are necessary or proper to effectuate the purposes of
11 this section, to prevent circumvention or evasion
12 thereof, or to facilitate compliance therewith.

13 (2) ADVISORY GROUP.—To assist in carrying
14 out this section, the Secretary shall establish an ad-
15 visory group, consisting of individuals representing
16 the interests of—

17 (A) mortgage lenders;

18 (B) appraisers;

19 (C) energy raters and residential energy
20 consumption experts;

21 (D) energy efficiency organizations;

22 (E) real estate agents;

23 (F) home builders and remodelers;

24 (G) State energy officials; and

25 (H) others as determined by the Secretary.

1 (g) ADDITIONAL STUDY.—

2 (1) IN GENERAL.—Not later than 18 months
3 after the date of enactment of this Act, the Sec-
4 retary shall reconvene the advisory group established
5 in subsection (f)(2), in addition to water and loca-
6 tional efficiency experts, to advise the Secretary on
7 the implementation of the enhanced energy efficiency
8 underwriting criteria established in subsections (c)
9 and (d).

10 (2) RECOMMENDATIONS.—The advisory group
11 established in subsection (f)(2) shall provide rec-
12 ommendations to the Secretary on any revisions or
13 additions to the enhanced energy efficiency under-
14 writing criteria deemed necessary by the group,
15 which may include alternate methods to better ac-
16 count for home energy costs and additional factors
17 to account for substantial and regular costs of home-
18 ownership such as location-based transportation
19 costs and water costs. The Secretary shall forward
20 any legislative recommendations from the advisory
21 group to Congress for its consideration.

1 **Subtitle E—Third-Party Testing**

2 **SEC. 441. VOLUNTARY CERTIFICATION PROGRAMS FOR AIR** 3 **CONDITIONING, FURNACE, BOILER, HEAT** 4 **PUMP, AND WATER HEATER PRODUCTS.**

5 Section 326(b) of the Energy Policy and Conserva-
 6 tion Act (42 U.S.C. 6296(b)) is amended by adding at
 7 the end the following:

8 “(6) VOLUNTARY CERTIFICATION PROGRAMS
 9 FOR AIR CONDITIONING, FURNACE, BOILER, HEAT
 10 PUMP, AND WATER HEATER PRODUCTS.—

11 “(A) DEFINITION OF BASIC MODEL
 12 GROUP.—In this paragraph, the term ‘basic
 13 model group’ means a set of models—

14 “(i) that share characteristics that
 15 allow the performance of 1 model to be
 16 generally representative of the performance
 17 of other models within the group; and

18 “(ii) in which the group of products
 19 does not necessarily have to share discrete
 20 performance.

21 “(B) RELIANCE ON VOLUNTARY CERTIFI-
 22 CATION PROGRAMS.—For the purpose of testing
 23 to verify the performance rating of, or receiving
 24 test reports from manufacturers certifying com-
 25 pliance with energy conservation standards and

1 Energy Star specifications established under
2 sections 324A, 325, and 342, the covered prod-
3 ucts described in paragraphs (3), (4), (5), (9),
4 and (11) of section 322(a) and covered equip-
5 ment described in subparagraphs (B), (C), (D),
6 (F), (I), (J), and (K) of section 340(1), the
7 Secretary and Administrator shall rely on vol-
8 untary certification programs that—

9 “(i) are nationally recognized;

10 “(ii) maintain a publicly available list
11 of all certified products and equipment;

12 “(iii) as determined by the Secretary,
13 annually test not less than 10 percent and
14 not more than 30 percent of the basic
15 model group of a program participant;

16 “(iv) require the changing of the per-
17 formance rating or removal of the product
18 or equipment from the program, if
19 verification testing determines that the
20 performance rating does not meet the lev-
21 els the manufacturer has certified to the
22 Secretary;

23 “(v) require the qualification of new
24 participants in the program through test-
25 ing and production of test reports;

1 “(vi) allow for challenge testing of
2 products and equipment within the scope
3 of the program;

4 “(vii) require program participants to
5 certify the performance rating of all cov-
6 ered products and equipment within the
7 scope of the program;

8 “(viii) are conducted by a certification
9 body that is accredited under International
10 Organization for Standardization/Inter-
11 national Electrotechnical Commission
12 (ISO/IEC) Standard 17065;

13 “(ix) provide to the Secretary—

14 “(I) an annual report of all test
15 results;

16 “(II) prompt notification when
17 program testing results in—

18 “(aa) the rerating of the
19 performance rating of a product
20 or equipment; or

21 “(bb) the delisting of a
22 product or equipment; and

23 “(III) test reports, on the request
24 of the Secretary or the Administrator,
25 for Energy Star compliant products,

1 which shall be treated as confidential
2 business information as provided for
3 under section 552(b)(4) of title 5,
4 United States Code (commonly known
5 as the “Freedom of Information
6 Act”);

7 “(x) use verification testing that—

8 “(I) is conducted by an inde-
9 pendent test laboratory that is accred-
10 ited under International Organization
11 for Standardization/International
12 Electrotechnical Commission (ISO/
13 IEC) Standard 17025 with a scope
14 covering the tested products or equip-
15 ment;

16 “(II) follows the test procedures
17 established under this title; and

18 “(III) notes in each test report
19 any instructions specified by the man-
20 ufacturer or the representative of the
21 manufacturer for the purpose of con-
22 ducting the verification testing; and

23 “(xi) satisfy such other requirements
24 as the Secretary has determined—

1 “(I) are essential to ensure
2 standards compliance; or

3 “(II) have consensus support
4 achieved through a negotiated rule-
5 making process.

6 “(C) ADMINISTRATION.—

7 “(i) IN GENERAL.—The Secretary
8 shall not require—

9 “(I) manufacturers to participate
10 in a voluntary certification program
11 described in subparagraph (B); or

12 “(II) participating manufacturers
13 to provide information that can be ob-
14 tained through a voluntary certifi-
15 cation program described in subpara-
16 graph (B).

17 “(ii) LIST OF COVERED PRODUCTS.—

18 The Secretary or the Administrator may
19 maintain a publicly available list of covered
20 products and equipment certified under a
21 program described in subparagraph (B)
22 that distinguishes between—

23 “(I) covered products and equip-
24 ment verified by the program; and

1 “(II) products not verified by the
2 program.

3 “(iii) REDUCTION OF REQUIRE-
4 MENTS.—Any rules promulgated by the
5 Secretary that require testing of products
6 or equipment for certification of perform-
7 ance ratings shall on average reduce re-
8 quirements and burdens for manufacturers
9 participating in a voluntary certification
10 program described in subparagraph (B) for
11 the products or equipment relative to other
12 manufacturers.

13 “(iv) PERIODIC TESTING BY PROGRAM
14 NONPARTICIPANTS.—In addition to certifi-
15 cation requirements, the Secretary shall re-
16 quire a manufacturer that does not partici-
17 pate in a voluntary certification program
18 described in subparagraph (B)—

19 “(I) to verify the accuracy of the
20 performance rating of the product or
21 equipment through periodic testing
22 using the testing methods described in
23 clause (iii) or (x) of subparagraph
24 (B); and

1 “(II) to provide to the Secretary
2 test results and, on request, test re-
3 ports verifying the certified perform-
4 ance for each basic model group of
5 the manufacturer.

6 “(v) RESTRICTIONS ON TEST LABORA-
7 TORIES.—

8 “(I) IN GENERAL.—Subject to
9 subclause (II), with respect to covered
10 products and equipment, a voluntary
11 certification program described in
12 subparagraph (B) shall not be a test
13 laboratory that conducts the testing
14 on products or equipment within the
15 scope of the program.

16 “(II) LIMITATION.—Subclause
17 (I) shall not apply to Energy Star
18 specifications established under sec-
19 tion 324A.

20 “(vi) EFFECT ON OTHER AUTHOR-
21 ITY.—Nothing in this paragraph limits the
22 authority of the Secretary or the Adminis-
23 trator to test products or equipment or to
24 enforce compliance with any law (including
25 regulations).”.

1 **TITLE V—MISCELLANEOUS**

2 **SEC. 501. OFFSET.**

3 Section 422(f) of the Energy Independence and Secu-
4 rity Act of 2007 (42 U.S.C. 17082(f)) is amended—

5 (1) in paragraph (3), by striking “and” after
6 the semicolon at the end; and

7 (2) by striking paragraph (4) and inserting the
8 following:

9 “(4) \$200,000,000 for each of fiscal year 2013;

10 “(5) \$197,500,000 for each of fiscal year 2014;

11 “(6) \$147,500,000 for fiscal year 2015; and

12 “(7) \$97,500,000 for each of fiscal years 2016
13 through 2018.”.

14 **SEC. 502. BUDGETARY EFFECTS.**

15 The budgetary effects of this Act, for the purpose of
16 complying with the Statutory Pay-As-You-Go Act of 2010,
17 shall be determined by reference to the latest statement
18 titled “Budgetary Effects of PAYGO Legislation” for this
19 Act, submitted for printing in the Congressional Record
20 by the Chairman of the Senate Budget Committee, pro-
21 vided that such statement has been submitted prior to the
22 vote on passage.

23 **SEC. 503. ADVANCE APPROPRIATIONS REQUIRED.**

24 The authorization of amounts under this Act and the
25 amendments made by this Act shall be effective for any

- 1 fiscal year only to the extent and in the amount provided
- 2 in advance in appropriations Acts.

