

113TH CONGRESS  
1ST SESSION

# S. 761

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

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IN THE SENATE OF THE UNITED STATES

APRIL 18, 2013

Mrs. SHAHEEN (for herself and Mr. PORTMAN) introduced the following bill; which was read twice and referred to the Committee on Energy and Natural Resources

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## A BILL

To promote energy savings in residential and commercial 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 2013”.

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.

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.

TITLE II—PRIVATE COMMERCIAL BUILDING EFFICIENCY FINANCING

Sec. 201. Private commercial building efficiency financing.

TITLE III—INDUSTRIAL EFFICIENCY AND COMPETITIVENESS

Subtitle A—Manufacturing Energy Efficiency

- Sec. 301. Purposes.
- Sec. 302. Future of Industry program.
- Sec. 303. Sustainable manufacturing initiative.
- Sec. 304. Conforming amendments.

Subtitle B—Supply Star

Sec. 311. Supply Star.

Subtitle C—Electric Motor Rebate Program

Sec. 321. Energy saving motor control rebate program.

Subtitle D—Transformer Rebate Program

Sec. 331. Energy efficient transformer rebate program.

TITLE IV—FEDERAL AGENCY ENERGY EFFICIENCY

- Sec. 401. Adoption of information and communications technology power savings techniques by Federal agencies.
- Sec. 402. Availability of funds for design updates.
- Sec. 403. Natural gas and electric vehicle infrastructure.
- Sec. 404. Federal data center consolidation.

TITLE V—MISCELLANEOUS

- Sec. 501. Budgetary effects.
- Sec. 502. Advance appropriations required.

**1 SEC. 2. DEFINITION OF SECRETARY.**

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

# TITLE I—BUILDINGS

## Subtitle A—Building Energy Codes

### SEC. 101. GREATER ENERGY EFFICIENCY IN BUILDING CODES.

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

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

“(14) MODEL BUILDING ENERGY CODE.—The term ‘model building energy code’ means a voluntary building energy code and standards developed and updated through a consensus process among interested persons, such as the IECC or the code used by—

“(A) the Council of American Building Officials;

“(B) the American Society of Heating, Refrigerating, and Air-Conditioning Engineers; or

“(C) other appropriate organizations.”;

and

(2) by adding at the end the following:

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

1           “(18) INDIAN TRIBE.—The term ‘Indian tribe’  
2           has the meaning given the term in section 4 of the  
3           Native American Housing Assistance and Self-Determination  
4           Act of 1996 (25 U.S.C. 4103).”.

5           (b) STATE BUILDING ENERGY EFFICIENCY  
6 CODES.—Section 304 of the Energy Conservation and  
7 Production Act (42 U.S.C. 6833) is amended to read as  
8 follows:

9 **“SEC. 304. UPDATING STATE BUILDING ENERGY EFFI-**  
10 **CIENCY CODES.**

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

12               “(1) encourage and support the adoption of  
13               building energy codes by States, Indian tribes, and,  
14               as appropriate, by local governments that meet or  
15               exceed the model building energy codes, or achieve  
16               equivalent or greater energy savings; and

17               “(2) support full compliance with the State and  
18               local codes.

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

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

23                   “(A) IN GENERAL.—Not later than 2 years  
24                   after the date on which a model building energy  
25                   code is updated, each State or Indian tribe shall

1 certify whether or not the State or Indian tribe,  
2 respectively, has reviewed and updated the en-  
3 ergy provisions of the building code of the State  
4 or Indian tribe, respectively.

5 “(B) DEMONSTRATION.—The certification  
6 shall include a demonstration of whether or not  
7 the energy savings for the code provisions that  
8 are in effect throughout the State or Indian  
9 tribal territory meet or exceed—

10 “(i) the energy savings of the updated  
11 model building energy code; or

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

14 “(C) NO MODEL BUILDING ENERGY CODE  
15 UPDATE.—If a model building energy code is  
16 not updated by a target date established under  
17 section 307(b)(2)(D), each State or Indian tribe  
18 shall, not later than 2 years after the specified  
19 date, certify whether or not the State or Indian  
20 tribe, respectively, has reviewed and updated  
21 the energy provisions of the building code of the  
22 State or Indian tribe, respectively, to meet or  
23 exceed the target in section 307(b)(2).

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

4           “(A) determine whether the code provi-  
5 sions of the State or Indian tribe, respectively,  
6 meet the criteria specified in paragraph (1);  
7 and

8           “(B) if the determination is positive, vali-  
9 date the certification.

10          “(c) IMPROVEMENTS IN COMPLIANCE WITH BUILD-  
11 ING ENERGY CODES.—

12          “(1) REQUIREMENT.—

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

18           “(i) achieved full compliance under  
19 paragraph (3) with the applicable certified  
20 State and Indian tribe building energy  
21 code or with the associated model building  
22 energy code; or

23           “(ii) made significant progress under  
24 paragraph (4) toward achieving compliance  
25 with the applicable certified State and In-

1           dian tribe building energy code or with the  
2           associated model building energy code.

3           “(B) REPEAT CERTIFICATIONS.—If the  
4           State or Indian tribe certifies progress toward  
5           achieving compliance, the State or Indian tribe  
6           shall repeat the certification until the State or  
7           Indian tribe certifies that the State or Indian  
8           tribe has achieved full compliance, respectively.

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

12           “(A) independent inspections of a random  
13           sample of the buildings covered by the code in  
14           the preceding year; or

15           “(B) an alternative method that yields an  
16           accurate measure of compliance.

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

20           “(A) at least 90 percent of building space  
21           covered by the code in the preceding year sub-  
22           stantially meets all the requirements of the ap-  
23           plicable code specified in paragraph (1), or  
24           achieves equivalent or greater energy savings  
25           level; or

1           “(B) the estimated excess energy use of  
2 buildings that did not meet the applicable code  
3 specified in paragraph (1) in the preceding  
4 year, compared to a baseline of comparable  
5 buildings that meet this code, is not more than  
6 5 percent of the estimated energy use of all  
7 buildings covered by this code during the pre-  
8 ceding year.

9           “(4)    SIGNIFICANT    PROGRESS    TOWARD  
10 ACHIEVEMENT OF COMPLIANCE.—A State or Indian  
11 tribe shall be considered to have made significant  
12 progress toward achieving compliance for purposes  
13 of paragraph (1) if the State or Indian tribe—

14           “(A) has developed and is implementing a  
15 plan for achieving compliance during the 8-  
16 year-period beginning on the date of enactment  
17 of this paragraph, including annual targets for  
18 compliance and active training and enforcement  
19 programs; and

20           “(B) has met the most recent target under  
21 subparagraph (A).

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



1           “(A) determine whether the State or In-  
 2           dian tribe has demonstrated meeting the cri-  
 3           teria of this subsection, including accurate  
 4           measurement of compliance; and

5           “(B) if the determination is positive, vali-  
 6           date the certification.

7           “(d) STATES OR INDIAN TRIBES THAT DO NOT  
 8           ACHIEVE COMPLIANCE.—

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

13                 “(A) the status of the State or Indian tribe  
 14                 with respect to meeting the requirements and  
 15                 submitting the certification; and

16                 “(B) a plan for meeting the requirements  
 17                 and submitting the certification.

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

24           “(3) LOCAL GOVERNMENT.—In any State or  
 25          Indian tribe for which the Secretary has not vali-

1       dated a certification under subsection (b) or (c), a  
2       local government may be eligible for Federal support  
3       by meeting the certification requirements of sub-  
4       sections (b) and (c).

5           “(4) ANNUAL REPORTS BY SECRETARY.—

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

9           “(i) the status of model building en-  
10       ergy codes;

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

13          “(iii) implementation of this section;  
14       and

15          “(iv) improvements in energy savings  
16       over time as result of the targets estab-  
17       lished under section 307(b)(2).

18          “(B) IMPACTS.—The report shall include  
19       estimates of impacts of past action under this  
20       section, and potential impacts of further action,  
21       on—

22          “(i) upfront financial and construction  
23       costs, cost benefits and returns (using in-  
24       vestment analysis), and lifetime energy use  
25       for buildings;

1                   “(ii) resulting energy costs to individ-  
2                   uals and businesses; and

3                   “(iii) resulting overall annual building  
4                   ownership and operating costs.

5           “(e) TECHNICAL ASSISTANCE TO STATES AND IN-  
6   DIAN TRIBES.—The Secretary shall provide technical as-  
7   sistance to States and Indian tribes to implement the goals  
8   and requirements of this section, including procedures and  
9   technical analysis for States and Indian tribes—

10           “(1) to improve and implement State residential  
11           and commercial building energy codes;

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

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

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

20           “(f) AVAILABILITY OF INCENTIVE FUNDING.—

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

23           “(A) to implement the requirements of this  
24           section;

1           “(B) to improve and implement residential  
2           and commercial building energy codes, including  
3           increasing and verifying compliance with the  
4           codes and training of State, tribal, and local  
5           building code officials to implement and enforce  
6           the codes; and

7           “(C) to promote building energy efficiency  
8           through the use of the codes.

9           “(2) ADDITIONAL FUNDING.—Additional fund-  
10          ing shall be provided under this subsection for im-  
11          plementation of a plan to achieve and document full  
12          compliance with residential and commercial building  
13          energy codes under subsection (c)—

14                 “(A) to a State or Indian tribe for which  
15                 the Secretary has validated a certification under  
16                 subsection (b) or (c); and

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

20           “(3) TRAINING.—Of the amounts made avail-  
21          able under this subsection, the State may use  
22          amounts required, but not to exceed \$750,000 for a  
23          State, to train State and local building code officials  
24          to implement and enforce codes described in para-  
25          graph (2).

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

4           “(g) STRETCH CODES AND ADVANCED STAND-  
5           ARDS.—

6           “(1) IN GENERAL.—The Secretary shall provide  
7           technical and financial support for the development  
8           of stretch codes and advanced standards for residen-  
9           tial and commercial buildings for use as—

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

13                   “(B) guidelines for energy-efficient build-  
14                   ing design.

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

17                   “(A) to achieve substantial energy savings  
18                   compared to the model building energy codes;  
19                   and

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

23           “(h) STUDIES.—The Secretary, in consultation with  
24           building science experts from the National Laboratories  
25           and institutions of higher education, designers and build-

1 ers of energy-efficient residential and commercial build-  
2 ings, code officials, and other stakeholders, shall under-  
3 take a study of the feasibility, impact, economics, and  
4 merit of—

5           “(1) code improvements that would require that  
6 buildings be designed, sited, and constructed in a  
7 manner that makes the buildings more adaptable in  
8 the future to become zero-net-energy after initial  
9 construction, as advances are achieved in energy-sav-  
10 ing technologies;

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

14           “(3) legislative options for increasing energy  
15 savings from building energy codes, including addi-  
16 tional incentives for effective State and local action,  
17 and verification of compliance with and enforcement  
18 of a code other than by a State or local government.

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

23           “(j) AUTHORIZATION OF APPROPRIATIONS.—There  
24 are authorized to be appropriated to carry out this section

1 and section 307 \$200,000,000, to remain available until  
2 expended.”.

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

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

12 **“SEC. 307. SUPPORT FOR MODEL BUILDING ENERGY**  
13 **CODES.**

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

16 “(b) TARGETS.—

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

21 “(2) TARGETS.—

22 “(A) IN GENERAL.—The Secretary shall  
23 work with State, Indian tribes, local govern-  
24 ments, nationally recognized code and stand-  
25 ards developers, and other interested parties to

1 support the updating of model building energy  
2 codes by establishing one or more aggregate en-  
3 ergy savings targets to achieve the purposes of  
4 this section.

5 “(B) SEPARATE TARGETS.—The Secretary  
6 may establish separate targets for commercial  
7 and residential buildings.

8 “(C) BASELINES.—The baseline for updat-  
9 ing model building energy codes shall be the  
10 2009 IECC for residential buildings and  
11 ASHRAE Standard 90.1–2010 for commercial  
12 buildings.

13 “(D) SPECIFIC YEARS.—

14 “(i) IN GENERAL.—Targets for spe-  
15 cific years shall be established and revised  
16 by the Secretary through rulemaking and  
17 coordinated with nationally recognized code  
18 and standards developers at a level that—

19 “(I) is at the maximum level of  
20 energy efficiency that is techno-  
21 logically feasible and life-cycle cost ef-  
22 fective, while accounting for the eco-  
23 nomic considerations under paragraph  
24 (4);



1           “(II) is higher than the preceding  
2           target; and

3           “(III) promotes the achievement  
4           of commercial and residential high-  
5           performance buildings through high  
6           performance energy efficiency (within  
7           the meaning of section 401 of the En-  
8           ergy Independence and Security Act  
9           of 2007 (42 U.S.C. 17061)).

10          “(ii) INITIAL TARGETS.—Not later  
11          than 1 year after the date of enactment of  
12          this clause, the Secretary shall establish  
13          initial targets under this subparagraph.

14          “(iii) DIFFERENT TARGET YEARS.—  
15          Subject to clause (i), prior to the applica-  
16          ble year, the Secretary may set a later tar-  
17          get year for any of the model building en-  
18          ergy codes described in subparagraph (A)  
19          if the Secretary determines that a target  
20          cannot be met.

21          “(iv) SMALL BUSINESS.—When estab-  
22          lishing targets under this paragraph  
23          through rulemaking, the Secretary shall  
24          ensure compliance with the Small Business  
25          Regulatory Enforcement Fairness Act of

1                   1996 (5 U.S.C. 601 note; Public Law 104–  
2                   121).

3                   “(3) APPLIANCE STANDARDS AND OTHER FAC-  
4                   TORS AFFECTING BUILDING ENERGY USE.—In es-  
5                   tablishing building code targets under paragraph  
6                   (2), the Secretary shall develop and adjust the tar-  
7                   gets in recognition of potential savings and costs re-  
8                   lating to—

9                   “(A) efficiency gains made in appliances,  
10                  lighting, windows, insulation, and building enve-  
11                  lope sealing;

12                  “(B) advancement of distributed genera-  
13                  tion and on-site renewable power generation  
14                  technologies;

15                  “(C) equipment improvements for heating,  
16                  cooling, and ventilation systems;

17                  “(D) building management systems and  
18                  SmartGrid technologies to reduce energy use;  
19                  and

20                  “(E) other technologies, practices, and  
21                  building systems that the Secretary considers  
22                  appropriate regarding building plug load and  
23                  other energy uses.

24                  “(4) ECONOMIC CONSIDERATIONS.—In estab-  
25                  lishing and revising building code targets under

1 paragraph (2), the Secretary shall consider the eco-  
2 nomic feasibility of achieving the proposed targets  
3 established under this section and the potential costs  
4 and savings for consumers and building owners, in-  
5 cluding a return on investment analysis.

6 “(c) TECHNICAL ASSISTANCE TO MODEL BUILDING  
7 ENERGY CODE-SETTING AND STANDARD DEVELOPMENT  
8 ORGANIZATIONS.—

9 “(1) IN GENERAL.—The Secretary shall, on a  
10 timely basis, provide technical assistance to model  
11 building energy code-setting and standard develop-  
12 ment organizations consistent with the goals of this  
13 section.

14 “(2) ASSISTANCE.—The assistance shall in-  
15 clude, as requested by the organizations, technical  
16 assistance in—

17 “(A) evaluating code or standards pro-  
18 posals or revisions;

19 “(B) building energy analysis and design  
20 tools;

21 “(C) building demonstrations;

22 “(D) developing definitions of energy use  
23 intensity and building types for use in model  
24 building energy codes to evaluate the efficiency  
25 impacts of the model building energy codes;

1 “(E) performance-based standards;

2 “(F) evaluating economic considerations  
3 under subsection (b)(4); and

4 “(G) developing model building energy  
5 codes by Indian tribes in accordance with tribal  
6 law.

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

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

19 “(d) DETERMINATION.—

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

1 months after the date of the revision, on whether or  
2 not the revision will—

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

6 “(B) meet the applicable targets under  
7 subsection (b)(2).

8 “(2) CODES OR STANDARDS NOT MEETING TAR-  
9 GETS.—

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

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

22 “(ii) available appliances, technologies,  
23 materials, and construction practices; and

24 “(iii) the economic considerations  
25 under subsection (b)(4).

1 “(B) INCORPORATION OF CHANGES.—

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

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

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

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

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

1       “(f) VOLUNTARY CODES AND STANDARDS.—Not-  
2 withstanding any other provision of this section, any  
3 model building code or standard established under this  
4 section shall not be binding on a State, local government,  
5 or Indian tribe as a matter of Federal law.”.

6       **Subtitle B—Worker Training and**  
7                                   **Capacity Building**

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

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

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

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

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

1           (4) to assist institutions of higher education  
2           and Tribal Colleges or Universities in training build-  
3           ing technicians;

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

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

14          (b) COORDINATION AND NONDUPLICATION.—

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

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



1 **TITLE II—PRIVATE COMMER-**  
2 **CIAL BUILDING EFFICIENCY**  
3 **FINANCING**

4 **SEC. 201. PRIVATE COMMERCIAL BUILDING EFFICIENCY FI-**  
5 **NANCING.**

6 (a) IN GENERAL.—The Secretary shall establish a  
7 program to be known as the “Commercial Building En-  
8 ergy Efficiency Financing Initiative” under which the Sec-  
9 retary shall provide grants to States (as defined in section  
10 3 of the Energy Policy and Conservation Act (42 U.S.C.  
11 6202)) to establish or expand programs to promote the  
12 financing of energy efficiency retrofit projects for private  
13 sector and commercial buildings.

14 (b) APPLICATIONS.—A State may apply to the Sec-  
15 retary for a grant under this section to establish or expand  
16 a program described in subsection (a), including—

17 (1) a commercial Property Assessed Clean En-  
18 ergy (PACE) financing program;

19 (2) a credit enhancement structure that is de-  
20 signed to mitigate the effects of default, including a  
21 loan guarantee program, loan loss reserve program,  
22 collateral or subordinated capital program, or other  
23 program;

24 (3) a revolving loan fund;

1           (4) a program to promote the use of energy  
2 savings performance contracts or utility energy serv-  
3 ice contracts, or both;

4           (5) a utility on-bill financing or repayment pro-  
5 gram;

6           (6) an interest buy-down program;

7           (7) a secondary market financing program;

8           (8) a leasing structure that recognizes energy  
9 costs and addresses split-incentives;

10          (9) an educational program involving commer-  
11 cial lenders, energy service companies, commercial  
12 building owners, and other stakeholders estab-  
13 lished—

14           (A) to provide information to the commu-  
15 nity regarding program and project options and  
16 outcomes; and

17           (B) to build consensus on approaches to  
18 greater energy efficiency investments; and

19          (10) any other activity that will significantly in-  
20 crease the total investment in, and energy savings  
21 from, building retrofit projects and programs.

22 (c) ADMINISTRATION.—

23          (1) IN GENERAL.—A State receiving a grant  
24 under this section shall give a higher priority to pro-  
25 grams and projects that—

1 (A) leverage private sources of funding;  
2 and

3 (B) aim explicitly to expand the use of en-  
4 ergy efficiency project financing using private  
5 sources of funding, including philanthropic and  
6 other institutional investment.

7 (2) OTHER ACTIONS.—A State receiving a  
8 grant under this section is encouraged to consider  
9 establishing such other appropriate policies, incen-  
10 tives, or actions that will advance the purposes of  
11 this section.

12 (d) EVALUATION OF PROGRAMS.—The Secretary  
13 shall evaluate applications from States under this section  
14 on the basis of—

15 (1) the likelihood that a proposed program or  
16 activity will—

17 (A) be established or expanded;

18 (B) increase the total investment and en-  
19 ergy savings of the retrofit projects to be sup-  
20 ported; and

21 (C) increase the total investment and en-  
22 ergy savings in a State or region in which in-  
23 vestments and energy savings have the greatest  
24 potential for growth as compared to other  
25 States or regions; and

1           (2) other factors that will advance the purposes  
2 of this section, as determined by the Secretary.

3 (e) REPORTS.—

4           (1) IN GENERAL.—Not later than 2 years after  
5 the date of the receipt of a grant under this section,  
6 a State shall submit to the Secretary, the Committee  
7 on Energy and Natural Resources of the Senate,  
8 and the Committee on Energy and Commerce of the  
9 House of Representatives a report on the perform-  
10 ance of programs and activities carried out with the  
11 grant.

12           (2) DATA.—

13           (A) IN GENERAL.—A State receiving a  
14 grant under this section and the Secretary shall  
15 cooperate to collect and share data resulting  
16 from programs and activities carried out under  
17 this section.

18           (B) DEPARTMENT DATABASES.—The Sec-  
19 retary shall incorporate data described in sub-  
20 paragraph (A) into appropriate databases of the  
21 Department of Energy, with provisions for the  
22 protection of confidential business data.

23 (f) FUNDING.—

24           (1) AUTHORIZATION OF APPROPRIATIONS.—

25           There is authorized to be appropriated to carry out

1 this section \$250,000,000 for the period of fiscal  
2 years 2015 through 2020, to remain available until  
3 expended.

4 (2) ALLOCATION.—Of the amount made avail-  
5 able for a fiscal year under paragraph (1)—

6 (A) 75 percent of the amount shall be allo-  
7 cated on a formula-basis that is consistent with  
8 the formula used to allocate funds for State en-  
9 ergy conservation programs established under  
10 part D of title III of the Energy Policy and  
11 Conservation Act (42 U.S.C. 6321 et seq.), as  
12 determined by the Secretary; and

13 (B) 25 percent of the amount shall be dis-  
14 tributed by the Secretary consistent with the  
15 evaluation criteria established under subsection  
16 (d).

17 (3) STATE ENERGY OFFICES.—Funds provided  
18 to a State under this section shall be provided to the  
19 office within the State that is responsible for devel-  
20 oping the State energy plan for the State under part  
21 D of title III of the Energy Policy and Conservation  
22 Act (42 U.S.C. 6321 et seq.).

1 **TITLE III—INDUSTRIAL EFFI-**  
2 **CIENCY AND COMPETITIVE-**  
3 **NESS**

4 **Subtitle A—Manufacturing Energy**  
5 **Efficiency**

6 **SEC. 301. PURPOSES.**

7 The purposes of this subtitle are—

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

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

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

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

21 (5) to stimulate domestic economic growth and  
22 improve industrial productivity and competitiveness;  
23 and

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

4 **SEC. 302. 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.—

1           (1) IN GENERAL.—Section 452(e) of the En-  
2           ergy Independence and Security Act of 2007 (42  
3           U.S.C. 17111(e)) is amended—

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

7                   (B) by striking “The Secretary” and in-  
8                   serting the following:

9                   “(1) IN GENERAL.—The Secretary”;

10                   (C) in subparagraph (A) (as redesignated  
11                   by subparagraph (A)), by inserting before the  
12                   semicolon at the end the following: “, including  
13                   assessments of sustainable manufacturing goals  
14                   and the implementation of information tech-  
15                   nology advancements for supply chain analysis,  
16                   logistics, system monitoring, industrial and  
17                   manufacturing processes, and other purposes”;  
18                   and

19                   (D) by adding at the end the following:

20                   “(2) COORDINATION.—

21                           “(A) IN GENERAL.—To increase the value  
22                           and capabilities of the industrial research and  
23                           assessment centers, the centers shall—

24                                   “(i) coordinate with Manufacturing  
25                                   Extension Partnership Centers of the Na-



1 tional Institute of Standards and Tech-  
2 nology;

3 “(ii) coordinate with the Building  
4 Technologies Program of the Department  
5 of Energy to provide building assessment  
6 services to manufacturers;

7 “(iii) increase partnerships with the  
8 National Laboratories of the Department  
9 of Energy to leverage the expertise and  
10 technologies of the National Laboratories  
11 for national industrial and manufacturing  
12 needs;

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

20 “(v) identify opportunities for reduc-  
21 ing greenhouse gas emissions; and

22 “(vi) promote sustainable manufac-  
23 turing practices for small- and medium-  
24 sized manufacturers.

1           “(3) OUTREACH.—The Secretary shall provide  
2 funding for—

3           “(A) outreach activities by the industrial  
4 research and assessment centers to inform  
5 small- and medium-sized manufacturers of the  
6 information, technologies, and services avail-  
7 able; and

8           “(B) coordination activities by each indus-  
9 trial research and assessment center to leverage  
10 efforts with—

11           “(i) Federal and State efforts;

12           “(ii) the efforts of utilities and energy  
13 service providers;

14           “(iii) the efforts of regional energy ef-  
15 ficiency organizations; and

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

18           “(4) WORKFORCE TRAINING.—

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

1           “(B) FEDERAL SHARE.—The Federal  
2           share of the cost of carrying out internship pro-  
3           grams described in subparagraph (A) shall be  
4           50 percent.

5           “(5) SMALL BUSINESS LOANS.—The Adminis-  
6           trator of the Small Business Administration shall, to  
7           the maximum extent practicable, expedite consider-  
8           ation of applications from eligible small business  
9           concerns for loans under the Small Business Act (15  
10          U.S.C. 631 et seq.) to implement recommendations  
11          of industrial research and assessment centers estab-  
12          lished under paragraph (1).

13          “(6) ADVANCED MANUFACTURING STEERING  
14          COMMITTEE.—The Secretary shall establish an advi-  
15          sory steering committee to provide recommendations  
16          to the Secretary on planning and implementation of  
17          the Advanced Manufacturing Office of the Depart-  
18          ment of Energy.”.

19 **SEC. 303. SUSTAINABLE MANUFACTURING INITIATIVE.**

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

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

24          “(a) IN GENERAL.—As part of the Office of Energy  
25          Efficiency and Renewable Energy, the Secretary, on the

1 request of a manufacturer, shall conduct onsite technical  
2 assessments to identify opportunities for—

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

5 “(2) preventing pollution and minimizing waste;

6 “(3) improving efficient use of water in manu-  
7 facturing processes;

8 “(4) conserving natural resources; and

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

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

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

1 (b) TABLE OF CONTENTS.—The table of contents of  
 2 the Energy Policy and Conservation Act (42 U.S.C. prec.  
 3 6201) is amended by adding at the end of the items relat-  
 4 ing to part E of title III the following:

“Sec. 376. Sustainable manufacturing initiative.”.

5 **SEC. 304. CONFORMING AMENDMENTS.**

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

8 (b) Sections 131, 132, 133, 2103, and 2107 of the  
 9 Energy Policy Act of 1992 (42 U.S.C. 6348, 6349, 6350,  
 10 13453, 13456) are repealed.

11 (c) Section 2101(a) of the Energy Policy Act of 1992  
 12 (42 U.S.C. 13451(a)) is amended in the third sentence  
 13 by striking “sections 2102, 2103, 2104, 2105, 2106,  
 14 2107, and 2108” and inserting “sections 2102, 2104,  
 15 2105, 2106, and 2108, section 376 of the Energy Policy  
 16 and Conservation Act,”.

17 **Subtitle B—Supply Star**

18 **SEC. 311. SUPPLY STAR.**

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

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

23 “(a) IN GENERAL.—There is established within the  
 24 Department of Energy a Supply Star program to identify  
 25 and promote practices, recognize companies, and, as ap-

1 appropriate, recognize products that use highly efficient sup-  
2 ply chains in a manner that conserves energy, water, and  
3 other resources.

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

6 “(1) consult with other appropriate agencies;  
7 and

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

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

12 “(1) promote practices, recognize companies,  
13 and, as appropriate, recognize products that comply  
14 with the Supply Star program as the preferred prac-  
15 tices, companies, and products in the marketplace  
16 for maximizing supply chain efficiency;

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

19 “(3) collect and disseminate data on supply  
20 chain energy resource consumption;

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

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

1           “(6) work with domestic and international orga-  
2           nizations to harmonize approaches to analyzing sup-  
3           ply chain efficiency, including the development of a  
4           consistent set of tools, templates, calculators, and  
5           databases; and

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

9                   “(A) developing and sharing best practices;  
10           and

11                   “(B) providing opportunities to benchmark  
12           supply chain efficiency.

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

19           “(e) GRANTS AND INCENTIVES.—

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

24                   “(A) studying supply chain energy resource  
25           efficiency; and

1           “(B) demonstrating and achieving reduc-  
2           tions in the energy resource consumption of  
3           commercial products through changes and im-  
4           provements to the production supply and dis-  
5           tribution chain of the products.

6           “(2) USE OF INFORMATION.—Any information  
7           or data generated as a result of the grants or incen-  
8           tives described in paragraph (1) shall be used to in-  
9           form the development of the Supply Star Program.

10          “(f) TRAINING.—The Secretary shall use funds to  
11          support professional training programs to develop and  
12          communicate methods, practices, and tools for improving  
13          supply chain efficiency.

14          “(g) EFFECT OF IMPACT ON CLIMATE CHANGE.—  
15          For purposes of this section, the impact on climate change  
16          shall not be a factor in determining supply chain effi-  
17          ciency.

18          “(h) EFFECT OF OUTSOURCING OF AMERICAN  
19          JOBS.—For purposes of this section, the outsourcing of  
20          American jobs in the production of a product shall not  
21          count as a positive factor in determining supply chain effi-  
22          ciency.

23          “(i) AUTHORIZATION OF APPROPRIATIONS.—There is  
24          authorized to be appropriated to carry out this section



1 \$10,000,000 for the period of fiscal years 2014 through  
2 2023.”.

3 **Subtitle C—Electric Motor Rebate**  
4 **Program**

5 **SEC. 321. ENERGY SAVING MOTOR CONTROL REBATE PRO-**  
6 **GRAM.**

7 (a) ESTABLISHMENT.—Not later than January 1,  
8 2014, the Secretary shall establish a program to provide  
9 rebates for expenditures made by entities for the purchase  
10 and installation of a new constant speed electric motor  
11 control that reduces motor energy use by not less than  
12 5 percent.

13 (b) REQUIREMENTS.—

14 (1) APPLICATION.—To be eligible to receive a  
15 rebate under this section, an entity shall submit to  
16 the Secretary an application in such form, at such  
17 time, and containing such information as the Sec-  
18 retary may require, including—

19 (A) demonstrated evidence that the entity  
20 purchased a constant speed electric motor con-  
21 trol that reduces motor energy use by not less  
22 than 5 percent; and

23 (B) the physical nameplate of the installed  
24 motor of the entity to which the energy saving  
25 motor control is attached.



1 (b) ESTABLISHMENT.—Not later than January 1,  
2 2014, the Secretary shall establish a program under which  
3 rebates are provided for expenditures made by owners of  
4 industrial or manufacturing facilities, commercial build-  
5 ings, and multifamily residential buildings for the pur-  
6 chase and installation of a new energy efficient trans-  
7 formers.

8 (c) REQUIREMENTS.—

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

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

19 (A) for 3-phase transformers—

20 (i) with a capacity of not greater than  
21 10 kVA, 15;

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

- 1 (I) the difference between—  
2 (aa) the capacity of the  
3 transformer in kVA; and  
4 (bb) 10; by  
5 (II) 9; and  
6 (iii) with a capacity greater than or  
7 equal to 100 kVA, 5; and  
8 (B) for single-phase transformers, 75 per-  
9 cent of the rebate for a 3-phase transformer of  
10 the same capacity.

11 (d) AUTHORIZATION OF APPROPRIATIONS.—There is  
12 authorized to be appropriated to carry out this section  
13 \$5,000,000 for each of fiscal years 2014 and 2015, to re-  
14 main available until expended.

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

17 **SEC. 401. ADOPTION OF INFORMATION AND COMMUNICA-**  
18 **TIONS TECHNOLOGY POWER SAVINGS TECH-**  
19 **NIQUES BY FEDERAL AGENCIES.**

20 (a) IN GENERAL.—Not later than 360 days after the  
21 date of enactment of this Act, the Secretary, in consulta-  
22 tion with the Secretary of Defense, the Secretary of Vet-  
23 erans Affairs, and the Administrator of General Services,  
24 shall issue guidance for Federal agencies to employ ad-  
25 vanced tools promoting energy efficiency and energy sav-

1 ings through the use of information and communications  
2 technologies, including computer hardware, energy effi-  
3 ciency software, and power management tools.

4 (b) REPORTS ON PLANS AND SAVINGS.—Not later  
5 than 180 days after the date of the issuance of the guid-  
6 ance under subsection (a), each Federal agency shall sub-  
7 mit to the Secretary a report that describes—

8 (1) the plan of the agency for implementing the  
9 guidance within the agency; and

10 (2) estimated energy and financial savings from  
11 employing the tools and processes described in sub-  
12 section (a).

13 **SEC. 402. AVAILABILITY OF FUNDS FOR DESIGN UPDATES.**

14 Section 3307 of title 40, United States Code, is  
15 amended—

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

18 (2) by inserting after subsection (c) the fol-  
19 lowing:

20 “(d) AVAILABILITY OF FUNDS FOR DESIGN UP-  
21 DATES.—

22 “(1) IN GENERAL.—Subject to paragraph (2),  
23 for any project for which congressional approval is  
24 received under subsection (a) and for which the de-  
25 sign has been substantially completed but construc-

1 tion has not begun, the Administrator of General  
2 Services may use appropriated funds to update the  
3 project design to meet applicable Federal building  
4 energy efficiency standards established under section  
5 305 of the Energy Conservation and Production Act  
6 (42 U.S.C. 6834) and other requirements estab-  
7 lished under section 3312.

8 “(2) LIMITATION.—The use of funds under  
9 paragraph (1) shall not exceed 125 percent of the  
10 estimated energy or other cost savings associated  
11 with the updates as determined by a life cycle cost  
12 analysis under section 544 of the National Energy  
13 Conservation Policy Act (42 U.S.C. 8254).”.

14 **SEC. 403. NATURAL GAS AND ELECTRIC VEHICLE INFRA-**  
15 **STRUCTURE.**

16 Section 804(4) of the National Energy Conservation  
17 Policy Act (42 U.S.C. 8287c(4)) is amended—

18 (1) in subparagraph (A), by striking “or” after  
19 the semicolon;

20 (2) in subparagraph (B), by striking the period  
21 at the end and inserting “; or”; and

22 (3) by adding at the end the following:

23 “(C) a measure to support the use of nat-  
24 ural gas vehicles and electric vehicles or the  
25 fueling or charging infrastructure necessary for

1 natural gas vehicles and electric vehicles, in-  
2 cluding the use of utility energy service con-  
3 tracts to support those vehicles or infrastruc-  
4 ture.”.

5 **SEC. 404. FEDERAL DATA CENTER CONSOLIDATION.**

6 Not later than 180 days after the date of enactment  
7 of this Act, the Administrator for the Office of E-Govern-  
8 ment and Information Technology within the Office of  
9 Management and Budget shall develop and publish a goal  
10 for the total amount of planned energy and cost savings  
11 and increased productivity by the Federal Government  
12 through the consolidation of Federal data centers during  
13 the 5-year period beginning on the date of enactment of  
14 this Act, which shall include a breakdown on a year-by-  
15 year basis of the projected savings and productivity gains.

16 **TITLE V—MISCELLANEOUS**

17 **SEC. 501. BUDGETARY EFFECTS.**

18 The budgetary effects of this Act, for the purpose of  
19 complying with the Statutory Pay-As-You-Go Act of 2010,  
20 shall be determined by reference to the latest statement  
21 titled “Budgetary Effects of PAYGO Legislation” for this  
22 Act, submitted for printing in the Congressional Record  
23 by the Chairman of the Senate Budget Committee, pro-  
24 vided that such statement has been submitted prior to the  
25 vote on passage.

1 **SEC. 502. ADVANCE APPROPRIATIONS REQUIRED.**

2       The authorization of amounts under this Act and the  
3 amendments made by this Act shall be effective for any  
4 fiscal year only to the extent and in the amount provided  
5 in advance in appropriations Acts.

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