

115TH CONGRESS  
1ST SESSION

# H. R. 306

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## AN ACT

To amend the Energy Independence and Security Act of 2007 to promote energy efficiency via information and computing technologies, 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,*

1 **SECTION 1. SHORT TITLE.**

2       This Act may be cited as the “Energy Efficient Gov-  
3 ernment Technology Act”.

4 **SEC. 2. ENERGY-EFFICIENT AND ENERGY-SAVING INFOR-**  
5 **MATION TECHNOLOGIES.**

6       (a) IN GENERAL.—Subtitle C of title V of the Energy  
7 Independence and Security Act of 2007 (Public Law 110–  
8 140; 121 Stat. 1661) is amended by adding at the end  
9 the following:

10 **“SEC. 530. ENERGY-EFFICIENT AND ENERGY-SAVING INFOR-**  
11 **MATION TECHNOLOGIES.**

12       “(a) DEFINITIONS.—In this section:

13               “(1) DIRECTOR.—The term ‘Director’ means  
14 the Director of the Office of Management and Budg-  
15 et.

16               “(2) INFORMATION TECHNOLOGY.—The term  
17 ‘information technology’ has the meaning given that  
18 term in section 11101 of title 40, United States  
19 Code.

20       “(b) DEVELOPMENT OF IMPLEMENTATION STRAT-  
21 EGY.—Not later than 1 year after the date of enactment  
22 of this section, each Federal agency shall coordinate with  
23 the Director, the Secretary, and the Administrator of the  
24 Environmental Protection Agency to develop an implemen-  
25 tation strategy (that includes best practices and measure-  
26 ment and verification techniques) for the maintenance,

1 purchase, and use by the Federal agency of energy-effi-  
2 cient and energy-saving information technologies, taking  
3 into consideration the performance goals established under  
4 subsection (d).

5 “(c) ADMINISTRATION.—In developing an implemen-  
6 tation strategy under subsection (b), each Federal agency  
7 shall consider—

8 “(1) advanced metering infrastructure;

9 “(2) energy-efficient data center strategies and  
10 methods of increasing asset and infrastructure utili-  
11 zation;

12 “(3) advanced power management tools;

13 “(4) building information modeling, including  
14 building energy management;

15 “(5) secure telework and travel substitution  
16 tools; and

17 “(6) mechanisms to ensure that the agency re-  
18 alizes the energy cost savings brought about through  
19 increased efficiency and utilization.

20 “(d) PERFORMANCE GOALS.—

21 “(1) IN GENERAL.—Not later than 180 days  
22 after the date of enactment of this section, the Di-  
23 rector, in consultation with the Secretary, shall es-  
24 tablish performance goals for evaluating the efforts  
25 of Federal agencies in improving the maintenance,

1 purchase, and use of energy-efficient and energy-sav-  
 2 ing information technology.

3 “(2) BEST PRACTICES.—The Chief Information  
 4 Officers Council established under section 3603 of  
 5 title 44, United States Code, shall recommend best  
 6 practices for the attainment of the performance  
 7 goals, which shall include Federal agency consider-  
 8 ation of, to the extent applicable by law, the use  
 9 of—

10 “(A) energy savings performance con-  
 11 tracting; and

12 “(B) utility energy services contracting.

13 “(e) REPORTS.—

14 “(1) AGENCY REPORTS.—Each Federal agency  
 15 shall include in the report of the agency under sec-  
 16 tion 527 a description of the efforts and results of  
 17 the agency under this section.

18 “(2) OMB GOVERNMENT EFFICIENCY REPORTS  
 19 AND SCORECARDS.—Effective beginning not later  
 20 than October 1, 2017, the Director shall include in  
 21 the annual report and scorecard of the Director re-  
 22 quired under section 528 a description of the efforts  
 23 and results of Federal agencies under this section.”.

24 (b) CONFORMING AMENDMENT.—The table of con-  
 25 tents for the Energy Independence and Security Act of

1 2007 is amended by adding after the item relating to sec-  
2 tion 529 the following:

“Sec. 530. Energy-efficient and energy-saving information technologies.”.

3 **SEC. 3. ENERGY EFFICIENT DATA CENTERS.**

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

6 (1) in subsection (b)—

7 (A) in paragraph (2)(D)(iv), by striking

8 “determined by the organization” and inserting

9 “proposed by the stakeholders”; and

10 (B) by striking paragraph (3); and

11 (2) by striking subsections (c) through (g) and

12 inserting the following:

13 “(c) **STAKEHOLDER INVOLVEMENT.**—The Secretary

14 and the Administrator shall carry out subsection (b) in

15 collaboration with information technology industry and

16 other key stakeholders, with the goal of producing results

17 that accurately reflect the most relevant and useful infor-

18 mation. In such collaboration, the Secretary and the Ad-

19 ministrator shall pay particular attention to organizations

20 that—

21 “(1) have members with expertise in energy ef-

22 ficiency and in the development, operation, and

23 functionality of data centers, information technology

24 equipment, and software, such as representatives of

1 hardware manufacturers, data center operators, and  
2 facility managers;

3 “(2) obtain and address input from Department  
4 of Energy National Laboratories or any college, uni-  
5 versity, research institution, industry association,  
6 company, or public interest group with applicable ex-  
7 pertise;

8 “(3) follow—

9 “(A) commonly accepted procedures for  
10 the development of specifications; and

11 “(B) accredited standards development  
12 processes; and

13 “(4) have a mission to promote energy effi-  
14 ciency for data centers and information technology.

15 “(d) MEASUREMENTS AND SPECIFICATIONS.—The  
16 Secretary and the Administrator shall consider and assess  
17 the adequacy of the specifications, measurements, best  
18 practices, and benchmarks described in subsection (b) for  
19 use by the Federal Energy Management Program, the En-  
20 ergy Star Program, and other efficiency programs of the  
21 Department of Energy or the Environmental Protection  
22 Agency.

23 “(e) STUDY.—The Secretary, in collaboration with  
24 the Administrator, shall, not later than 18 months after  
25 the date of enactment of the Energy Efficient Government

1 Technology Act, make available to the public an update  
2 to the Report to Congress on Server and Data Center En-  
3 ergy Efficiency published on August 2, 2007, under sec-  
4 tion 1 of Public Law 109–431 (120 Stat. 2920), that pro-  
5 vides—

6 “(1) a comparison and gap analysis of the esti-  
7 mates and projections contained in the original re-  
8 port with new data regarding the period from 2008  
9 through 2015;

10 “(2) an analysis considering the impact of in-  
11 formation technologies, including virtualization and  
12 cloud computing, in the public and private sectors;

13 “(3) an evaluation of the impact of the com-  
14 bination of cloud platforms, mobile devices, social  
15 media, and big data on data center energy usage;

16 “(4) an evaluation of water usage in data cen-  
17 ters and recommendations for reductions in such  
18 water usage; and

19 “(5) updated projections and recommendations  
20 for best practices through fiscal year 2020.

21 “(f) DATA CENTER ENERGY PRACTITIONER PRO-  
22 GRAM.—The Secretary, in collaboration with key stake-  
23 holders and the Director of the Office of Management and  
24 Budget, shall maintain a data center energy practitioner  
25 program that leads to the certification of energy practi-

1 tioners qualified to evaluate the energy usage and effi-  
2 ciency opportunities in Federal data centers. Each Federal  
3 agency shall consider having the data centers of the agen-  
4 cy evaluated every 4 years, in accordance with section  
5 543(f) of the National Energy Conservation Policy Act,  
6 by energy practitioners certified pursuant to such pro-  
7 gram.

8       “(g) OPEN DATA INITIATIVE.—The Secretary, in col-  
9 laboration with key stakeholders and the Office of Man-  
10 agement and Budget, shall establish an open data initia-  
11 tive for Federal data center energy usage data, with the  
12 purpose of making such data available and accessible in  
13 a manner that encourages further data center innovation,  
14 optimization, and consolidation. In establishing the initia-  
15 tive, the Secretary shall consider the use of the online  
16 Data Center Maturity Model.

17       “(h) INTERNATIONAL SPECIFICATIONS AND  
18 METRICS.—The Secretary, in collaboration with key  
19 stakeholders, shall actively participate in efforts to har-  
20 monize global specifications and metrics for data center  
21 energy and water efficiency.

22       “(i) DATA CENTER UTILIZATION METRIC.—The Sec-  
23 retary, in collaboration with key stakeholders, shall facili-  
24 tate in the development of an efficiency metric that meas-



1 ures the energy efficiency of a data center (including  
2 equipment and facilities).

3 “(j) PROTECTION OF PROPRIETARY INFORMATION.—  
4 The Secretary and the Administrator shall not disclose  
5 any proprietary information or trade secrets provided by  
6 any individual or company for the purposes of carrying  
7 out this section or the programs and initiatives established  
8 under this section.”.

Passed the House of Representatives January 10,  
2017.

Attest:

*Clerk.*

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