

115TH CONGRESS
1ST SESSION

H. R. 306

To amend the Energy Independence and Security Act of 2007 to promote energy efficiency via information and computing technologies, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

JANUARY 5, 2017

Ms. ESHOO (for herself and Mr. KINZINGER) introduced the following bill;
which was referred to the Committee on Energy and Commerce

A BILL

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,*

3 **SECTION 1. SHORT TITLE.**

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

6 **SEC. 2. ENERGY-EFFICIENT AND ENERGY-SAVING INFOR-**
7 **MATION TECHNOLOGIES.**

8 (a) IN GENERAL.—Subtitle C of title V of the Energy
9 Independence and Security Act of 2007 (Public Law 110–

1 140; 121 Stat. 1661) is amended by adding at the end
2 the following:

3 **“SEC. 530. ENERGY-EFFICIENT AND ENERGY-SAVING INFOR-**
4 **MATION TECHNOLOGIES.**

5 “(a) DEFINITIONS.—In this section:

6 “(1) DIRECTOR.—The term ‘Director’ means
7 the Director of the Office of Management and Budg-
8 et.

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

13 “(b) DEVELOPMENT OF IMPLEMENTATION STRAT-
14 EGY.—Not later than 1 year after the date of enactment
15 of this section, each Federal agency shall coordinate with
16 the Director, the Secretary, and the Administrator of the
17 Environmental Protection Agency to develop an implemen-
18 tation strategy (that includes best practices and measure-
19 ment and verification techniques) for the maintenance,
20 purchase, and use by the Federal agency of energy-effi-
21 cient and energy-saving information technologies, taking
22 into consideration the performance goals established under
23 subsection (d).

1 “(c) ADMINISTRATION.—In developing an implemen-
2 tation strategy under subsection (b), each Federal agency
3 shall consider—

4 “(1) advanced metering infrastructure;

5 “(2) energy-efficient data center strategies and
6 methods of increasing asset and infrastructure utili-
7 zation;

8 “(3) advanced power management tools;

9 “(4) building information modeling, including
10 building energy management;

11 “(5) secure telework and travel substitution
12 tools; and

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

16 “(d) PERFORMANCE GOALS.—

17 “(1) IN GENERAL.—Not later than 180 days
18 after the date of enactment of this section, the Di-
19 rector, in consultation with the Secretary, shall es-
20 tablish performance goals for evaluating the efforts
21 of Federal agencies in improving the maintenance,
22 purchase, and use of energy-efficient and energy-sav-
23 ing information technology.

24 “(2) BEST PRACTICES.—The Chief Information
25 Officers Council established under section 3603 of

1 title 44, United States Code, shall recommend best
 2 practices for the attainment of the performance
 3 goals, which shall include Federal agency consider-
 4 ation of, to the extent applicable by law, the use
 5 of—

6 “(A) energy savings performance con-
 7 tracting; and

8 “(B) utility energy services contracting.

9 “(e) REPORTS.—

10 “(1) AGENCY REPORTS.—Each Federal agency
 11 shall include in the report of the agency under sec-
 12 tion 527 a description of the efforts and results of
 13 the agency under this section.

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

20 (b) CONFORMING AMENDMENT.—The table of con-
 21 tents for the Energy Independence and Security Act of
 22 2007 is amended by adding after the item relating to sec-
 23 tion 529 the following:

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

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

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

4 (1) in subsection (b)—

5 (A) in paragraph (2)(D)(iv), by striking
6 “determined by the organization” and inserting
7 “proposed by the stakeholders”; and

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

9 (2) by striking subsections (c) through (g) and
10 inserting the following:

11 “(c) **STAKEHOLDER INVOLVEMENT.**—The Secretary
12 and the Administrator shall carry out subsection (b) in
13 collaboration with information technology industry and
14 other key stakeholders, with the goal of producing results
15 that accurately reflect the most relevant and useful infor-
16 mation. In such collaboration, the Secretary and the Ad-
17 ministrator shall pay particular attention to organizations
18 that—

19 “(1) have members with expertise in energy ef-
20 ficiency and in the development, operation, and
21 functionality of data centers, information technology
22 equipment, and software, such as representatives of
23 hardware manufacturers, data center operators, and
24 facility managers;

25 “(2) obtain and address input from Department
26 of Energy National Laboratories or any college, uni-

1 versity, research institution, industry association,
2 company, or public interest group with applicable ex-
3 pertise;

4 “(3) follow—

5 “(A) commonly accepted procedures for
6 the development of specifications; and

7 “(B) accredited standards development
8 processes; and

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

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

19 “(e) STUDY.—The Secretary, in collaboration with
20 the Administrator, shall, not later than 18 months after
21 the date of enactment of the Energy Efficient Government
22 Technology Act, make available to the public an update
23 to the Report to Congress on Server and Data Center En-
24 ergy Efficiency published on August 2, 2007, under sec-

tion 1 of Public Law 109–431 (120 Stat. 2920), that provides—

“(1) a comparison and gap analysis of the estimates and projections contained in the original report with new data regarding the period from 2008 through 2015;

“(2) an analysis considering the impact of information technologies, including virtualization and cloud computing, in the public and private sectors;

“(3) an evaluation of the impact of the combination of cloud platforms, mobile devices, social media, and big data on data center energy usage;

“(4) an evaluation of water usage in data centers and recommendations for reductions in such water usage; and

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

“(f) DATA CENTER ENERGY PRACTITIONER PROGRAM.—The Secretary, in collaboration with key stakeholders and the Director of the Office of Management and Budget, shall maintain a data center energy practitioner program that leads to the certification of energy practitioners qualified to evaluate the energy usage and efficiency opportunities in Federal data centers. Each Federal agency shall consider having the data centers of the agen-

1 cy evaluated every 4 years, in accordance with section
2 543(f) of the National Energy Conservation Policy Act,
3 by energy practitioners certified pursuant to such pro-
4 gram.

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

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

19 “(i) DATA CENTER UTILIZATION METRIC.—The Sec-
20 retary, in collaboration with key stakeholders, shall facili-
21 tate in the development of an efficiency metric that meas-
22 ures the energy efficiency of a data center (including
23 equipment and facilities).

24 “(j) PROTECTION OF PROPRIETARY INFORMATION.—
25 The Secretary and the Administrator shall not disclose

1 any proprietary information or trade secrets provided by
2 any individual or company for the purposes of carrying
3 out this section or the programs and initiatives established
4 under this section.”.

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