

**Calendar No. 173**116TH CONGRESS  
1ST SESSION**S. 174****[Report No. 116-71]**

To provide for the establishment of a pilot program to identify security vulnerabilities of certain entities in the energy sector.

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## IN THE SENATE OF THE UNITED STATES

JANUARY 17, 2019

Mr. KING (for himself, Mr. RISCH, Mr. HEINRICH, Ms. COLLINS, and Mr. CRAPO) introduced the following bill; which was read twice and referred to the Committee on Energy and Natural Resources

AUGUST 16, 2019

Reported under authority of the order of the Senate of August 1, 2019, by  
Ms. MURKOWSKI, with an amendment

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**A BILL**

To provide for the establishment of a pilot program to identify security vulnerabilities of certain entities in the energy sector.

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 “Securing Energy Infra-  
3 structure Act”.

4 **SEC. 2. DEFINITIONS.**

5 In this Act:

6 (1) APPROPRIATE COMMITTEE OF CONGRESS.—

7 The term “appropriate committee of Congress”  
8 means—

9 (A) the Select Committee on Intelligence,  
10 the Committee on Homeland Security and Gov-  
11 ernmental Affairs, and the Committee on En-  
12 ergy and Natural Resources of the Senate; and

13 (B) the Permanent Select Committee on  
14 Intelligence, the Committee on Homeland Secu-  
15 rity, and the Committee on Energy and Com-  
16 merce of the House of Representatives.

17 (2) COVERED ENTITY.—The term “covered en-  
18 tity” means an ~~entity identified pursuant to section~~  
19 ~~9(a)~~ *owner or operator described in section 9(c)* of  
20 Executive Order 13636 of February 12, 2013 (78  
21 Fed. Reg. 11742), relating to identification of crit-  
22 ical infrastructure where a cybersecurity incident  
23 could reasonably result in catastrophic regional or  
24 national effects on public health or safety, economic  
25 security, or national security.

1           (3) EXPLOIT.—The term “exploit” means a  
2 software tool designed to take advantage of a secu-  
3 rity vulnerability.

4           (4) INDUSTRIAL CONTROL SYSTEM.—

5           (A) IN GENERAL.—The term “industrial  
6 control system” means an operational tech-  
7 nology used to measure, control, or manage in-  
8 dustrial functions.

9           (B) INCLUSIONS.—The term “industrial  
10 control system” includes supervisory control  
11 and data acquisition systems, distributed con-  
12 trol systems, and programmable logic or embed-  
13 ded controllers.

14          (5) NATIONAL LABORATORY.—The term “Na-  
15 tional Laboratory” has the meaning given the term  
16 in section 2 of the Energy Policy Act of 2005 (42  
17 U.S.C. 15801).

18          (6) PROGRAM.—The term “Program” means  
19 the pilot program established under section 3.

20          (7) SECRETARY.—The term “Secretary” means  
21 the Secretary of Energy.

22          (8) SECURITY VULNERABILITY.—The term “se-  
23 curity vulnerability” means any attribute of hard-  
24 ware, software, process, or procedure that could en-  
25 able or facilitate the defeat of a security control.

1 **SEC. 3. PILOT PROGRAM FOR SECURING ENERGY INFRA-**  
2 **STRUCTURE.**

3 Not later than 180 days after the date of enactment  
4 of this Act, the Secretary shall establish a 2-year control  
5 systems implementation pilot program within the National  
6 Laboratories for the purposes of—

7 (1) partnering with covered entities in the en-  
8 ergy sector (including critical component manufac-  
9 turers in the supply chain) that voluntarily partici-  
10 pate in the Program to identify new classes of secu-  
11 rity vulnerabilities of the covered entities; and

12 (2) evaluating technology and standards, in  
13 partnership with covered entities, to isolate and de-  
14 fend industrial control systems of covered entities  
15 from security vulnerabilities and exploits in the most  
16 critical systems of the covered entities, including—

17 (A) analog and nondigital control systems;

18 (B) purpose-built control systems; and

19 (C) physical controls.

20 **SEC. 4. WORKING GROUP TO EVALUATE PROGRAM STAND-**  
21 **ARDS AND DEVELOP STRATEGY.**

22 (a) ESTABLISHMENT.—The Secretary shall establish  
23 a working group—

24 (1) to evaluate the technology and standards  
25 used in the Program under section 3(2); and

1           (2) to develop a national cyber-informed engi-  
2           neering strategy to isolate and defend covered enti-  
3           ties from security vulnerabilities and exploits in the  
4           most critical systems of the covered entities.

5           (b) MEMBERSHIP.—The working group established  
6           under subsection (a) shall be composed of not fewer than  
7           10 members, to be appointed by the Secretary, at least  
8           1 member of which shall represent each of the following:

9           (1) The Department of Energy.

10           (2) The energy industry, including electric utili-  
11           ties and manufacturers recommended by the Energy  
12           Sector coordinating councils.

13           (3)(A) The Department of Homeland Security;  
14           or

15           (B) the Industrial Control Systems Cyber  
16           Emergency Response Team.

17           (4) The North American Electric Reliability  
18           Corporation.

19           (5) The Nuclear Regulatory Commission.

20           (6)(A) The Office of the Director of National  
21           Intelligence; or

22           (B) the intelligence community (as defined in  
23           section 3 of the National Security Act of 1947 (50  
24           U.S.C. 3003)).

25           (7)(A) The Department of Defense; or

1 (B) the Assistant Secretary of Defense for  
2 Homeland Security and America's Security Affairs.

3 (8) A State or regional energy agency.

4 (9) A national research body or academic insti-  
5 tution.

6 (10) The National Laboratories.

7 **SEC. 5. REPORTS ON THE PROGRAM.**

8 (a) INTERIM REPORT.—Not later than 180 days  
9 after the date on which funds are first disbursed under  
10 the Program, the Secretary shall submit to the appro-  
11 priate committees of Congress an interim report that—

12 (1) describes the results of the Program;

13 (2) includes an analysis of the feasibility of  
14 each method studied under the Program; and

15 (3) describes the results of the evaluations con-  
16 ducted by the working group established under sec-  
17 tion 4(a).

18 (b) FINAL REPORT.—Not later than 2 years after the  
19 date on which funds are first disbursed under the Pro-  
20 gram, the Secretary shall submit to the appropriate com-  
21 mittees of Congress a final report that—

22 (1) describes the results of the Program;

23 (2) includes an analysis of the feasibility of  
24 each method studied under the Program; and

1           (3) describes the results of the evaluations con-  
2           ducted by the working group established under sec-  
3           tion 4(a).

4 **SEC. 6. EXEMPTION FROM DISCLOSURE.**

5           Information shared by or with the Federal Govern-  
6           ment or a State, Tribal, or local government under this  
7           Act shall be—

8           (1) deemed to be voluntarily shared informa-  
9           tion;

10          (2) exempt from disclosure under section 552 of  
11          title 5, United States Code, or any provision of any  
12          State, Tribal, or local freedom of information law,  
13          open government law, open meetings law, open  
14          records law, sunshine law, or similar law requiring  
15          the disclosure of information or records; and

16          (3) withheld from the public, without discretion,  
17          under section 552(b)(3) of title 5, United States  
18          Code, or any provision of a State, Tribal, or local  
19          law requiring the disclosure of information or  
20          records.

21 **SEC. 7. PROTECTION FROM LIABILITY.**

22          (a) IN GENERAL.—A cause of action against a cov-  
23          ered entity for engaging in the voluntary activities author-  
24          ized under section 3—

1           (1) shall not lie or be maintained in any court;

2           and

3           (2) shall be promptly dismissed by the applica-

4           ble court.

5           (b) VOLUNTARY ACTIVITIES.—Nothing in this Act

6           subjects any covered entity to liability for not engaging

7           in the voluntary activities authorized under section 3.

8           **SEC. 8. NO NEW REGULATORY AUTHORITY FOR FEDERAL**  
9                                   **AGENCIES.**

10          Nothing in this Act authorizes the Secretary or the

11          head of any other department or agency of the Federal

12          Government to issue new regulations.

13          **SEC. 9. AUTHORIZATION OF APPROPRIATIONS.**

14          (a) PILOT PROGRAM.—There is authorized to be ap-

15          propriated \$10,000,000 to carry out section 3.

16          (b) WORKING GROUP AND REPORT.—There is au-

17          thorized to be appropriated \$1,500,000 to carry out sec-

18          tions 4 and 5.

19          (c) AVAILABILITY.—Amounts made available under

20          subsections (a) and (b) shall remain available until ex-

21          pending.





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