

115TH CONGRESS  
1ST SESSION

# H. R. 2507

To provide for a technology demonstration program related to the modernization of the electric grid.

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IN THE HOUSE OF REPRESENTATIVES

MAY 17, 2017

Mr. SARBANES (for himself and Mr. MCNERNEY) introduced the following bill; which was referred to the Committee on Energy and Commerce, and in addition to the Committee on Science, Space, and Technology, for a period to be subsequently determined by the Speaker, in each case for consideration of such provisions as fall within the jurisdiction of the committee concerned

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## A BILL

To provide for a technology demonstration program related to the modernization of the electric grid.

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 “21st Century Power  
5 Grid Act”.

1 **SEC. 2. TECHNOLOGY DEMONSTRATION ON THE DISTRIBUTION SYSTEM.**  
2

3 (a) IN GENERAL.—The Secretary of Energy shall es-  
4 tablish a financial assistance program to carry out eligible  
5 projects related to the modernization of the electric grid,  
6 including the application of technologies to improve ob-  
7 servability, advanced controls, and prediction of system  
8 performance on the distribution system and related trans-  
9 mission system interdependencies.

10 (b) ELIGIBLE PROJECTS.—To be eligible for financial  
11 assistance under subsection (a), a project shall—

12 (1) be designed to—

13 (A) improve the performance and efficiency  
14 of the future electric grid, while ensuring the  
15 continued provision of safe, secure, reliable, and  
16 affordable power; and

17 (B) provide new options for customer-  
18 owned resources;

19 (2) demonstrate—

20 (A) secure integration and management of  
21 energy resources, including distributed energy  
22 generation, combined heat and power, micro-  
23 grids, energy storage, electric vehicles, energy  
24 efficiency, demand response, and intelligent  
25 loads; and

1 (B) secure integration and interoperability  
2 of communications and information tech-  
3 nologies; and

4 (3) include the participation of a partnership  
5 consisting of two or more entities that—

6 (A) may include—

7 (i) any institution of higher education;

8 (ii) a National Laboratory;

9 (iii) a representative of a State or  
10 local government;

11 (iv) a representative of an Indian  
12 tribe; or

13 (v) a Federal power marketing admin-  
14 istration; and

15 (B) shall include at least one of any of—

16 (i) an investor-owned electric utility;

17 (ii) a publicly owned utility;

18 (iii) a technology provider;

19 (iv) a rural electric cooperative;

20 (v) a regional transmission organiza-  
21 tion; or

22 (vi) an independent system operator.

23 (c) CYBERSECURITY PLAN.—Each eligible project  
24 carried out pursuant to subsection (a) shall include the

1 development of a cybersecurity plan written in accordance  
2 with guidelines developed by the Secretary.

3 (d) PRIVACY RISK ANALYSIS.—Each eligible project  
4 carried out pursuant to subsection (a) shall include a pri-  
5 vacy impact assessment that evaluates the project against  
6 the 5 core concepts in the Voluntary Code of Conduct of  
7 the Department of Energy, commonly known as the  
8 “DataGuard Energy Data Privacy Program”, or the most  
9 recent revisions to the privacy program of the Depart-  
10 ment.

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