

111TH CONGRESS  
2D SESSION

# H. R. 5230

To direct the Secretary of Defense to carry out a pilot program on collaborative energy security.

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## IN THE HOUSE OF REPRESENTATIVES

MAY 6, 2010

Mr. HEINRICH introduced the following bill; which was referred to the Committee on Armed Services, and in addition to the Committee on Science 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 direct the Secretary of Defense to carry out a pilot program on collaborative energy security.

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 “Military Energy Secu-  
5 rity Act” or the “MESA Act”.

6 **SEC. 2. PILOT PROGRAM ON COLLABORATIVE ENERGY SE-**  
7 **CURITY.**

8 (a) PILOT PROGRAM.—The Secretary of Defense, in  
9 coordination with the Secretary of Energy, shall carry out

1 a collaborative energy security pilot program involving one  
2 or more partnerships between one military installation and  
3 one national laboratory, for the purpose of evaluating and  
4 validating secure, salable microgrid components and sys-  
5 tems for deployment.

6 (b) SELECTION OF MILITARY INSTALLATION AND  
7 NATIONAL LABORATORY.—The Secretary of Defense and  
8 the Secretary of Energy shall jointly select a military in-  
9 stallation and a national laboratory for the purpose of car-  
10 rying out the pilot program under this section. In making  
11 such selections, the Secretaries shall consider each of the  
12 following:

13 (1) A commitment to participate made by a  
14 military installation being considered for selection.

15 (2) The findings and recommendations of rel-  
16 evant energy security assessments of military instal-  
17 lations being considered for selection.

18 (3) The availability of renewable energy sources  
19 at a military installation being considered for selec-  
20 tion.

21 (4) Potential synergies between the expertise  
22 and capabilities of a national laboratory being con-  
23 sidered for selection and the infrastructure, inter-  
24 ests, or other energy security needs of a military in-  
25 stallation being considered for selection.

1           (5) The effects of any utility tariffs, surcharges,  
2           or other considerations on the feasibility of enabling  
3           any excess electricity generated on a military instal-  
4           lation being considered for selection to be sold or  
5           otherwise made available to the local community  
6           near the installation.

7           (c) PROGRAM ELEMENTS.—The pilot program shall  
8           be carried out as follows:

9           (1) Under the pilot program, the Secretaries  
10          shall evaluate and validate the performance of new  
11          energy technologies that may be incorporated into  
12          operating environments.

13          (2) The pilot program shall involve collabora-  
14          tion with the Office of Electricity Delivery and En-  
15          ergy Reliability of the Department of Energy and  
16          other offices and agencies within the Department of  
17          Energy, as appropriate, and the Environmental Se-  
18          curity Technical Certification Program of the De-  
19          partment of Defense.

20          (3) Under the pilot program, the Secretary of  
21          Defense shall investigate opportunities for any ex-  
22          cess electricity created for the military installation to  
23          be sold or otherwise made available the local commu-  
24          nity near the installation.

1           (4) The Secretary of Defense shall use the re-  
2           sults of the pilot program as the basis for informing  
3           key performance parameters and validating energy  
4           components and designs that could be implemented  
5           in various military installations across the country  
6           and at forward operating bases.

7           (5) The pilot program shall support the effort  
8           of the Secretary of Defense to use the military as a  
9           test bed to demonstrate innovative energy tech-  
10          nologies.

11          (d) IMPLEMENTATION AND DURATION.—The Sec-  
12          retary of Defense shall begin the pilot program under this  
13          section by not later than July 1, 2011. Such pilot program  
14          shall be not less than three years in duration.

15          (e) REPORTS.—

16                (1) INITIAL REPORT.—Not later than October  
17                1, 2011, the Secretary of Defense shall submit to  
18                the Committees on Armed Services of the Senate  
19                and House of Representatives, the Committee on  
20                Energy and Commerce of the House of Representa-  
21                tives, and the Committee on Energy and Natural  
22                Resources of the Senate an initial report that pro-  
23                vides an update on the implementation of the pilot  
24                program under this section, including an identifica-  
25                tion of the selected military installation and national

1 laboratory partner and a description of technologies  
2 under evaluation.

3 (2) FINAL REPORT.—Not later than 90 days  
4 after completion of the pilot program under this sec-  
5 tion, the Secretary shall submit to the Committees  
6 on Armed Services of the Senate and House of Rep-  
7 resentatives, the Committee on Energy and Com-  
8 merce of the House of Representatives, and the  
9 Committee on Energy and Natural Resources of the  
10 Senate a report on the pilot program, including any  
11 findings and recommendations of the Secretary.

12 (f) AUTHORIZATION OF APPROPRIATIONS.—There is  
13 authorized to be appropriated to the Secretary of Defense  
14 to carry out this section—

15 (1) \$5,000,000 for fiscal year 2011;

16 (2) \$10,000,000 for fiscal year 2012; and

17 (3) \$10,000,000 for fiscal year 2012.

18 (g) DEFINITIONS.—For purposes of this section:

19 (1) The term “microgrid” means an integrated  
20 energy system consisting of interconnected loads and  
21 distributed energy resources (including generators,  
22 energy storage devices, and smart controls) that can  
23 operate with the utility grid or in an intentional  
24 islanding mode.

25 (2) The term “national laboratory” means—

1           (A) a national laboratory (as defined in  
2           section 2 of the Energy Policy Act of 2005 (42  
3           U.S.C. 15801)); or

4           (B) a national security laboratory (as de-  
5           fined in section 3281 of the National Nuclear  
6           Security Administration Act (50 U.S.C. 2471)).

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