

114TH CONGRESS  
1ST SESSION

# S. 1528

To improve energy savings by the Department of Defense, and for other purposes.

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IN THE SENATE OF THE UNITED STATES

JUNE 9, 2015

Ms. HIRONO (for herself and Mr. WYDEN) introduced the following bill; which was read twice and referred to the Committee on Armed Services

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## A BILL

To improve energy savings by the Department of Defense,  
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 “Department of Defense  
5 Energy Security Act of 2015”.

1 **SEC. 2. AUTHORIZATION FOR RESEARCH TO IMPROVE MILI-**  
2 **TARY VEHICLE TECHNOLOGY TO INCREASE**  
3 **FUEL ECONOMY OR REDUCE FUEL CONSUMP-**  
4 **TION OF MILITARY VEHICLES USED IN COM-**  
5 **BAT.**

6 (a) RESEARCH AUTHORIZED.—The Secretary of De-  
7 fense, acting through the Assistant Secretary of Defense  
8 for Research and Engineering and in collaboration with  
9 the Secretary of the Army and the Secretary of the Navy,  
10 may carry out research to improve military vehicle tech-  
11 nology to increase fuel economy or reduce fuel consump-  
12 tion of military vehicles used in combat.

13 (b) PREVIOUS SUCCESSES.—The Secretary of De-  
14 fense shall ensure that research carried out under sub-  
15 section (a) takes into account the successes of, and lessons  
16 learned during, the development of the Fuel Efficient  
17 Ground Vehicle Alpha and Bravo programs to identify, as-  
18 sess, develop, demonstrate, and prototype technologies  
19 that support increasing fuel economy and decreasing fuel  
20 consumption of light tactical vehicles, while balancing sur-  
21 vivability.

1 **SEC. 3. REQUIREMENT TO ESTABLISH REPOSITORY FOR**  
2 **OPERATIONAL ENERGY-RELATED RESEARCH**  
3 **AND DEVELOPMENT EFFORTS OF DEPART-**  
4 **MENT OF DEFENSE.**

5 (a) REPOSITORY REQUIRED.—Not later than Decem-  
6 ber 31, 2016, the Secretary of Defense, acting through  
7 the Assistant Secretary of Defense for Research and Engi-  
8 neering and in collaboration with the Assistant Secretary  
9 of Defense for Operational Energy Plans and Programs  
10 and the Secretaries of the military departments, shall es-  
11 tablish a centralized repository for all operational energy-  
12 related research and development efforts of the Depart-  
13 ment of Defense, including with respect to the inception,  
14 operational, and complete phases of such efforts.

15 (b) INTERNET ACCESS.—The Secretary of Defense  
16 shall ensure that the repository required by subsection (a)  
17 is accessible through an Internet website of the Depart-  
18 ment of Defense and by all employees of the Department  
19 and members of the Armed Forces whom the Secretary  
20 determines appropriate, including all program managers  
21 involved in such research and development efforts, to en-  
22 able improved collaboration between military departments  
23 on research and development efforts described in sub-  
24 section (a), enable sharing of best practices and lessons  
25 learned relating to such efforts, and reduce redundancy  
26 in such efforts.

1 **SEC. 4. SECURE ENERGY INNOVATION PROGRAM.**

2 (a) IN GENERAL.—The Secretary of Defense shall  
3 conduct a program to develop and support projects de-  
4 signed to foster secure and reliable sources of energy for  
5 military installations, including incorporation of advanced  
6 energy metering, renewable energy, energy storage, and  
7 redundant power systems.

8 (b) METRICS.—The Secretary of Defense shall de-  
9 velop metrics for assessing the costs and benefits associ-  
10 ated with secure energy projects proposed or implemented  
11 as part of the program conducted under subsection (a).  
12 The metrics shall take into account financial and oper-  
13 ational costs associated with sustained losses of power re-  
14 sulting from natural disasters or attacks that damage elec-  
15 trical grids serving military installations.

16 **SEC. 5. AUTHORITY TO USE ENERGY SAVINGS INVESTMENT**  
17 **FUND FOR ENERGY MANAGEMENT INITIA-**  
18 **TIVES.**

19 Section 2919(b)(2) of title 10, United States Code,  
20 is amended by striking “, to the extent provided for in  
21 an appropriations Act,”.

22 **SEC. 6. ESTABLISHMENT OF DEPARTMENT OF DEFENSE AL-**  
23 **TERNATIVE FUELED VEHICLE INFRASTRUC-**  
24 **TURE FUND.**

25 (a) ESTABLISHMENT OF FUND.—There is estab-  
26 lished in the Treasury a fund to be known as the “Depart-

1 ment of Defense Alternative Fuel Vehicle Infrastructure  
2 Fund”.

3 (b) DEPOSITS.—The Fund shall consist of the fol-  
4 lowing:

5 (1) Amounts appropriated to the Fund.

6 (2) Amounts earned through investment under  
7 subsection (c).

8 (3) Any other amounts made available to the  
9 Fund by law.

10 (c) INVESTMENTS.—The Secretary shall invest any  
11 part of the Fund that the Secretary decides is not required  
12 to meet current expenses. Each investment shall be made  
13 in an interest-bearing obligation of the United States Gov-  
14 ernment, or an obligation that has its principal and inter-  
15 est guaranteed by the Government, that the Secretary de-  
16 cides has a maturity suitable for the Fund.

17 (d) USE OF FUNDS.—Amounts in the Fund shall be  
18 available to the Secretary, acting through the Under Sec-  
19 retary of Defense for Acquisition, Training, and Logistics,  
20 to install, operate, and maintain alternative fuel dis-  
21 pensing stations for use by alternative fueled vehicles of  
22 the Department of Defense and other infrastructure nec-  
23 essary to fuel alternative fueled vehicles of the Depart-  
24 ment.

25 (e) DEFINITIONS.—In this section:

1           (1) ALTERNATIVE FUEL.—The term “alter-  
2           native fuel” has the meaning given such term in sec-  
3           tion 32901 of title 49, United States Code.

4           (2) ALTERNATIVE FUELED VEHICLE.—The  
5           term “alternative fueled vehicle” means a vehicle  
6           that operates on alternative fuel.

7           (3) FUND.—The term “Fund” means the fund  
8           established under subsection (a).

9   **SEC. 7. STUDY ON POWER STORAGE CAPACITY REQUIRE-**  
10                                   **MENT.**

11           Not later than September 30, 2016, the Secretary of  
12   Defense shall submit to the congressional defense commit-  
13   tees a report on the costs and benefits associated with re-  
14   quiring 25 percent of National Guard and Reserve facili-  
15   ties to have at least a 21-day on-site power storage capac-  
16   ity to assist with providing support to civil authorities in  
17   case of manmade or natural disasters.

18   **SEC. 8. PLAN TO ENHANCE MISSION READINESS THROUGH**  
19                                   **GREATER ENERGY SECURITY AT CRITICAL**  
20                                   **MILITARY INSTALLATIONS.**

21           (a) REPORT REQUIRED.—Not later than September  
22   30, 2016, the Secretary of Defense shall submit to the  
23   congressional defense committees a report with a plan for  
24   integrating energy storage, micro-grid technologies, and  
25   on-site power generation systems at military installations

1 at risk of interruptions of power due to geographic loca-  
2 tion, dependence on connections to the electric grid, or  
3 other factors determined by the Secretary.

4 (b) FORM.—The report required under subsection (a)  
5 shall be submitted in unclassified form, but may contain  
6 a classified annex as necessary.

7 **SEC. 9. CONGRESSIONAL DEFENSE COMMITTEES DEFINED.**

8 In this Act, the term “congressional defense commit-  
9 tees” has the meaning given the term in section  
10 101(a)(16) of title 10, United States Code.

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