

111TH CONGRESS
2D SESSION

H. R. 5280

To amend title 10, United States Code, to reform Department of Defense energy policy, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

MAY 12, 2010

Ms. GIFFORDS introduced the following bill; which was referred to the Committee on Armed Services

A BILL

To amend title 10, United States Code, to reform Department of Defense energy policy, 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; TABLE OF CONTENTS.**

4 (a) SHORT TITLE.—This Act may be cited as the
5 “Department of Defense Energy Security Act of 2010”.

6 (b) TABLE OF CONTENTS.—The table of contents for
7 this Act is as follows:

Sec. 1. Short title; table of contents.

Sec. 2. Consideration of Department of Defense energy performance plan in other Department of Defense planning.

Sec. 3. Procurement preference for goods and services derived using sustainable practices.

Sec. 4. Renewable energy generation sources for Department of Defense energy needs.

- Sec. 5. Consideration of environmentally sustainable practices in Department energy performance plan.
- Sec. 6. Application of requirements regarding use of renewable forms of energy and energy efficient products to contractors operating Government-owned facilities and tenants and concessionaires.
- Sec. 7. Funding for energy conservation projects.
- Sec. 8. Improved building efficiency for Department of Defense facilities.
- Sec. 9. Conversion of Department of Defense fleet of non-tactical motor vehicles to electric and hybrid motor vehicles.
- Sec. 10. Research and development activities to incorporate hybrid-drive technology into current and future tactical fleet of military ground vehicles.
- Sec. 11. Development of biofuel derived from materials that do not compete with food stocks and is suitable for use as aviation fuel.
- Sec. 12. Implementation.
- Sec. 13. Waiver authority.

1 **SEC. 2. CONSIDERATION OF DEPARTMENT OF DEFENSE EN-**
 2 **ERGY PERFORMANCE PLAN IN OTHER DE-**
 3 **PARTMENT OF DEFENSE PLANNING.**

4 Section 2911(b) of title 10, United States Code, is
 5 amended—

6 (1) by inserting “(1)” before “The Secretary”;
 7 and

8 (2) by adding at the end the following new
 9 paragraph:

10 “(2) The energy performance plan shall be taken into
 11 consideration in the development of the following:

12 “(A) The National Security Strategy prescribed
 13 by the President pursuant to section 108 of the Na-
 14 tional Security Act of 1947 (50 U.S.C. 404a).

15 “(B) The annual report of the Secretary of De-
 16 fense submitted to the President and Congress pur-
 17 suant to section 113 of this title.

1 “(C) The Quadrennial Defense Review con-
 2 ducted by the Secretary of Defense pursuant to sec-
 3 tion 118 of this title and the national defense strat-
 4 egy delineated as part of that review.

5 “(D) The national military strategy prescribed
 6 by the Chairman of the Joint Chiefs of Staff under
 7 section 153 of this title.”.

8 **SEC. 3. PROCUREMENT PREFERENCE FOR GOODS AND**
 9 **SERVICES DERIVED USING SUSTAINABLE**
 10 **PRACTICES.**

11 (a) CONVERSION REQUIRED.—Subchapter II of
 12 chapter 173 of title 10, United States Code, is amended
 13 by adding at the end the following new section:

14 **“§ 2922g. Procurement preference for goods and serv-**
 15 **ices derived using sustainable practices**

16 “(a) GENERAL PREFERENCE.—In the acquisition of
 17 goods and services, the Secretary of each military depart-
 18 ment and the head of each defense agency shall give a
 19 preference to goods and services produced using, or other-
 20 wise utilizing, sustainable environmental practices, includ-
 21 ing goods and services that are environmentally preferable,
 22 energy-efficient, water-efficient, and contain recycled con-
 23 tent.

24 “(b) PREFERENCE FOR POST-CONSUMER CONTENT
 25 PAPER.—Except as specifically exempted by the Secretary

1 concerned, all paper used by the Department of Defense
 2 shall contain at least 30 percent post-consumer fiber con-
 3 tent.”.

4 (b) CLERICAL AMENDMENT.—The table of sections
 5 at the beginning of such subchapter is amended by adding
 6 at the end the following new item:

“2922g. Procurement preference for goods and services derived using sustain-
 able practices.”.

7 **SEC. 4. RENEWABLE ENERGY GENERATION SOURCES FOR**
 8 **DEPARTMENT OF DEFENSE ENERGY NEEDS.**

9 (a) DEPARTMENT OF DEFENSE RENEWABLE EN-
 10 ERGY GOAL.—Section 2911(e) of title 10, United States
 11 Code, is amended—

12 (1) by redesignating paragraphs (1) and (2) as
 13 subparagraphs (A) and (B), respectively;

14 (2) by inserting “(1)” before “It shall”; and

15 (3) by adding at the end the following new
 16 paragraphs:

17 “(2) Of the amounts of electric energy produced or
 18 procured from renewable energy sources to achieve the
 19 goals in section 203(a) of the Energy Policy Act of 2005
 20 (42 U.S.C. 15852(a)) for fiscal year 2011 and each subse-
 21 quent fiscal year, and in paragraph (1)(A)—

22 “(A) at least 50 percent shall be produced or
 23 procured from renewable energy sources that became
 24 fully operational after January 1, 1999; and

1 “(B) at least 20 percent shall be produced or
2 procured from renewable energy sources that became
3 fully operational after September 30, 2009.

4 “(3) Not later than 90 days after the date of the en-
5 actment of this paragraph, the Secretary shall submit to
6 Congress an implementation plan for meeting the goals
7 described in paragraph (2) in conformance with the re-
8 quirements of that paragraph.”.

9 **SEC. 5. CONSIDERATION OF ENVIRONMENTALLY SUSTAIN-**
10 **ABLE PRACTICES IN DEPARTMENT ENERGY**
11 **PERFORMANCE PLAN.**

12 Section 2911(c) of title 10, United States Code, is
13 amended—

14 (1) in paragraph (4), by inserting “and hybrid-
15 electric drive” after “alternative fuels”;

16 (2) by redesignating paragraph (9) as para-
17 graph (11) and paragraphs (5) through (8) as para-
18 graphs (6) through (9), respectively;

19 (3) by inserting after paragraph (4) the fol-
20 lowing new paragraph:

21 “(5) Opportunities for the high-performance
22 construction, lease, operation, and maintenance of
23 buildings.”; and

1 (4) by inserting after paragraph (9) (as redesignated by paragraph (2)) the following new paragraph:

2 “(10) The value of incorporating electric, hybrid-electric, and high-efficiency vehicles into vehicle
3 fleets.”.

4 **SEC. 6. APPLICATION OF REQUIREMENTS REGARDING USE**
5 **OF RENEWABLE FORMS OF ENERGY AND ENERGY EFFICIENT PRODUCTS TO CONTRACTORS OPERATING GOVERNMENT-OWNED FACILITIES AND TENANTS AND CONCESSIONAIRES.**

6 Section 2915 of title 10, United States Code, is
7 amended by adding at the end the following new sub-
8 section:

9 “(f) APPLICATION TO CONTRACTORS OPERATING
10 GOVERNMENT-OWNED FACILITIES AND TENANTS AND
11 CONCESSIONAIRES.—(1) The Secretary of Defense shall
12 require that any contract described in paragraph (2) entered into by the Secretary of a military department or
13 the head of a defense agency after September 30, 2010,
14 include a provision requiring the non-Federal party to the
15 contract to comply with the requirements of this section
16 regarding use of renewable forms of energy and energy
17 efficient products.

1 “(2) Paragraph (1) applies to the following contracts:

2 “(A) A contract providing for contractor oper-
3 ation of a Government-owned facility of the Depart-
4 ment of Defense.

5 “(B) A contract involving a permit, lease, li-
6 cense, or other legally binding obligation between the
7 Department and a tenant or concessionaire.

8 “(3) The Secretary of Defense may authorize an ex-
9 ception to paragraph (1) on a contract-by-contract basis.”.

10 **SEC. 7. FUNDING FOR ENERGY CONSERVATION PROJECTS.**

11 (a) **AUTHORIZATION TO OBLIGATE FUNDS.**—The
12 Secretary of Defense may obligate, from amounts appro-
13 priated pursuant to the authorization of appropriations in
14 section 2403 of the Military Construction Authorization
15 for Fiscal Year 2011 to carry out energy conservation
16 projects, \$180,000,000 to carry out energy conservation
17 projects under chapter 173 of title 10, United States
18 Code, to accelerate implementation of the energy perform-
19 ance plan of the Department of Defense and achievement
20 of the energy performance goals established under section
21 2911 of such title.

22 (b) **AUTHORIZATION OF APPROPRIATIONS TO COM-**
23 **PENSATE FOR DEFICIENCY.**—There is authorized to be
24 appropriated to the Secretary of Defense an amount equal
25 to the difference between—

1 (1) the amount that may be obligated by the
 2 Secretary of Defense under subsection (a); and

3 (2) the amount appropriated pursuant to the
 4 authorization of appropriations in section 2403 of
 5 the Military Construction Authorization for Fiscal
 6 Year 2011 to carry out energy conservation projects.

7 **SEC. 8. IMPROVED BUILDING EFFICIENCY FOR DEPART-**
 8 **MENT OF DEFENSE FACILITIES.**

9 (a) INSULATION RETROFITTING ASSESSMENT.—Not
 10 later than 180 days after the date of the enactment of
 11 this Act, the Secretary of Defense shall submit to Con-
 12 gress an assessment of—

13 (1) the potential for improving the insulation of
 14 Department of Defense facilities; and

15 (2) the savings that would be generated by ret-
 16 rofitting, to improve insulation, all Department fa-
 17 cilities that are not scheduled for replacement under
 18 the future-years defense program submitted to Con-
 19 gress during fiscal year 2011 under section 221 of
 20 title 10, United States Code.

21 (b) ENERGY AND WATER EVALUATIONS.—

22 (1) EVALUATIONS REQUIRED.—Energy man-
 23 agers for Department of Defense facilities shall com-
 24 plete an annual comprehensive energy and water
 25 evaluation for at least 25 percent of the Department

1 facilities. Each Department facility shall be evalu-
2 ated at least once every four years.

3 (2) ELEMENTS.—An evaluation shall, with re-
4 spect to each facility—

5 (A) identify, through means including a re-
6 commissioning or retrocommissioning process,
7 measures to improve the energy and water effi-
8 ciency of the facility, including the efficiency
9 of—

10 (i) lighting, heating, ventilating, and
11 air-conditioning systems;

12 (ii) combined heat and power systems;

13 and

14 (iii) the building envelope (including
15 insulation, roofing, and windows); and

16 (B) assess the feasibility and life cycle
17 cost-effectiveness of—

18 (i) implementing the measures identi-
19 fied in subparagraph (A); and

20 (ii) providing on-site renewable elec-
21 tricity generation.

22 (3) IMPLEMENTATION OF IDENTIFIED ENERGY
23 AND WATER EFFICIENCY MEASURES.—Not later
24 than two years after the completion of each evalua-

1 tion under this subsection, the energy manager
2 shall—

3 (A) implement any measure assessed under
4 clause (i) or (ii) of paragraph (2)(B) to be fea-
5 sible and life cycle cost-effective; and

6 (B) in implementing measures under sub-
7 paragraph (A), bundle individual measures of
8 varying paybacks together into combined
9 projects.

10 (4) FOLLOW-UP ON IMPLEMENTED MEAS-
11 URES.—For each measure implemented under para-
12 graph (3), the energy manager shall ensure that—

13 (A) equipment, including building and
14 equipment controls, is fully commissioned at ac-
15 ceptance to be operating at design specifica-
16 tions;

17 (B) a plan for appropriate operations,
18 maintenance, and repair of the equipment is in
19 place at acceptance and is followed;

20 (C) equipment and system performance is
21 measured during its entire life to ensure proper
22 operations, maintenance, and repair; and

23 (D) energy and water savings are meas-
24 ured and verified.

1 (5) CERTAIN FACILITIES EXEMPTED.—This
2 subsection does not apply to facilities that are sched-
3 uled for replacement under the future-years defense
4 program submitted to Congress during fiscal year
5 2011 under section 221 of title 10, United States
6 Code.

7 (6) LIFE CYCLE COST-EFFECTIVE DEFINED.—
8 In this subsection, the term “life cycle cost-effec-
9 tive”, with respect to a measure, means a measure,
10 the estimated net savings of which (including sav-
11 ings in estimated energy and water costs and oper-
12 ations, maintenance, repair, replacement, and other
13 direct costs) exceed the estimated costs, including
14 the cost of the initial implementation of the measure
15 but not financing costs, over the lifespan of the
16 measure. The Secretary of Defense may make such
17 modifications and provide such exceptions to the cal-
18 culation of the payback period of a measure as the
19 Secretary determines to be appropriate to achieve
20 the purposes of this Act.

21 (7) AUTHORIZATION TO OBLIGATE FUNDS.—
22 The Secretary of Defense may obligate, from funds
23 appropriated pursuant to the authorization of appro-
24 priations for operation and maintenance in section
25 301 of the Military Construction Authorization for

1 Fiscal Year 2011, such sums as are necessary to
2 carry out this subsection.

3 (8) RULE OF CONSTRUCTION.—This subsection
4 shall not be construed to require or to obviate any
5 contractor savings guarantees.

6 (9) COMMENCEMENT.—The requirement im-
7 posed by this subsection shall commence 180 days
8 after the date of enactment of this Act.

9 (c) INSTALLATION OF HIGH-EFFICIENCY INSULA-
10 TION ON FACILITIES AT FORWARD OPERATING LOCA-
11 TIONS.—The Secretary of each military department shall
12 require the installation of high-efficiency insulation on any
13 climate-controlled structure at a forward operating loca-
14 tion of the Armed Forces under the jurisdiction of the Sec-
15 retary if the Secretary determines that inclusion of high-
16 efficiency insulation will result in a reduction in energy
17 use and will be life cycle cost-effective.

18 (d) GOAL TO DEVELOP ON-SITE RENEWABLE ELEC-
19 TRICITY GENERATION.—In the case of all new construc-
20 tion initiated after September 30, 2020, the Secretary of
21 Defense shall ensure that, with respect to the total esti-
22 mated energy to be consumed by all new facilities funded
23 in a fiscal year, at least 20 percent of the energy is derived
24 from renewable electricity generation occurring on the par-
25 cels on which new facilities will be located.

1 **SEC. 9. CONVERSION OF DEPARTMENT OF DEFENSE FLEET**
2 **OF NON-TACTICAL MOTOR VEHICLES TO**
3 **ELECTRIC AND HYBRID MOTOR VEHICLES.**

4 (a) CONVERSION REQUIRED.—

5 (1) IN GENERAL.—Subchapter II of chapter
6 173 of title 10, United States Code, is amended by
7 inserting after section 2922c the following new sec-
8 tion:

9 **“§ 2922c-1. Conversion of Department of Defense non-**
10 **tactical motor vehicle fleet to motor vehi-**
11 **cles using electric or hybrid propulsion**
12 **systems**

13 “(a) DEADLINE FOR CONVERSION.—Not later than
14 September 30, 2015, the Secretary of each military de-
15 partment and the head of each defense agency shall con-
16 vert the fleet of non-tactical motor vehicles of the depart-
17 ment or defense agency that is powered by petroleum-de-
18 rived fuel to motor vehicles using—

19 “(1) electric propulsion;

20 “(2) hybrid propulsion; or

21 “(3) an alternative propulsion system with at
22 least a 30 percent net increase in energy efficiency
23 per vehicle over the conventional propulsion system.

24 “(b) PREFERENCE.—To comply with the deadline
25 specified in subsection (a), in procuring motor vehicles for
26 use by a military department or defense agency after the

1 date of the enactment of this section, the Secretary of the
2 military department or the head of the defense agency
3 shall provide a preference for the procurement of non-tac-
4 tical motor vehicles with a propulsion system described in
5 paragraph (1), (2), or (3) of subsection (a), including
6 plug-in hybrid systems, if the motor vehicles—

7 “(1) will meet the requirement or the need for
8 the procurement; and

9 “(2) are commercially available at a cost rea-
10 sonably comparable, on the basis of life-cycle cost, to
11 motor vehicles containing only an internal combus-
12 tion or heat engine using combustible fuel.

13 “(c) EXCEPTION.—This section shall not apply to
14 motor vehicles that are on a replacement cycle greater
15 than 10 years on the date of the enactment of this section.

16 “(d) HYBRID DEFINED.—In this section, the term
17 ‘hybrid’, with respect to a motor vehicle, means a motor
18 vehicle that draws propulsion energy from onboard sources
19 of stored energy that are both—

20 “(1) an internal combustion or heat engine
21 using combustible fuel; and

22 “(2) a rechargeable energy storage system.”.

23 (2) CLERICAL AMENDMENT.—The table of sec-
24 tions at the beginning of such subchapter is amend-

1 ed by inserting after the item relating to section
 2 2922c the following new item:

“2922c-1. Conversion of Department of Defense non-tactical motor vehicle fleet
 to motor vehicles using electric or hybrid propulsion systems.”.

3 (b) EXTENSION TO CONTRACTOR-OPERATED, GOV-
 4 ERNMENT-OWNED VEHICLES.—The Secretary of Defense
 5 shall require that contracts entered into by the Secretary
 6 of a military department or the head of a defense agency
 7 after the date of the enactment of this Act for contractor
 8 operation of Government-owned vehicles include a provi-
 9 sion requiring the contractor to comply with section
 10 2922c-1 of title 10, United States Code, as added by sub-
 11 section (a), to the same extent as the Department is re-
 12 quired to comply with such section.

13 **SEC. 10. RESEARCH AND DEVELOPMENT ACTIVITIES TO IN-**
 14 **CORPORATE HYBRID-DRIVE TECHNOLOGY**
 15 **INTO CURRENT AND FUTURE TACTICAL**
 16 **FLEET OF MILITARY GROUND VEHICLES.**

17 (a) IDENTIFICATION OF USABLE HYBRID-DRIVE
 18 TECHNOLOGY.—Not later than 90 days after the date of
 19 enactment of this Act, the Secretary of each military de-
 20 partment shall submit to Congress a report identifying hy-
 21 brid-drive technologies suitable for incorporation into the
 22 next reset and recap of motor vehicles of the current tac-
 23 tical fleet of each Armed Force under the jurisdiction of
 24 the Secretary. In identifying suitable hybrid-drive tech-

1 nologies, the Secretary shall consider the feasibility and
2 cost of incorporating a hybrid-drive technology into each
3 vehicle and the design changes and amount of time re-
4 quired for incorporation.

5 (b) AUTHORIZATION OF OBLIGATION.—The Sec-
6 retary of Defense is authorized to obligate, from funds ap-
7 propriated for research, development, test, and evaluation
8 for fiscal year 2011, \$50,000,000 to incorporate hybrid-
9 drive technologies identified under subsection (a) into the
10 current tactical fleets of the Armed Forces.

11 (c) HYBRID-DRIVE TECHNOLOGY DEFINED.—In this
12 section, the term “hybrid-drive technology” means a pro-
13 pulsion system, including the engine and drive train, that
14 draws energy from onboard sources of stored energy that
15 involve—

16 (1) an internal combustion or heat engine using
17 combustible fuel; and

18 (2) a rechargeable energy storage system.

19 **SEC. 11. DEVELOPMENT OF BIOFUEL DERIVED FROM MA-**
20 **TERIALS THAT DO NOT COMPETE WITH FOOD**
21 **STOCKS AND IS SUITABLE FOR USE AS AVIA-**
22 **TION FUEL.**

23 (a) DEVELOPMENT PLAN REQUIRED.—Not later
24 than 180 days after the date of the enactment of this Act,
25 the Secretary of Defense shall submit to Congress a test-

1 ing and certification plan to develop and put into oper-
2 ational use by September 30, 2016, a biofuel derived from
3 materials that do not compete with food stocks and is suit-
4 able for use as or in an aviation fuel for military purposes.

5 (b) NOTIFICATION OF OPERATIONAL AVAILABILITY
6 OF BIOFUEL.—The Secretary of Defense shall notify Con-
7 gress as soon as practicable after the Secretary determines
8 that an aviation fuel that consists of at least 50 percent
9 biofuels described under subsection (a) is available for
10 operational use by the Armed Forces for military aviation
11 purposes.

12 **SEC. 12. IMPLEMENTATION.**

13 (a) RESPONSIBLE OFFICIALS.—The Deputy Under-
14 secretary of Defense for Installations and Environment
15 and the Director of Operational Energy Plans and Pro-
16 gram shall be the officials of the Department of Defense
17 responsible for the implementation of this Act and the
18 amendments made by this Act. The designated officials
19 shall monitor the implementation plans of the military de-
20 partments and Defense agencies and keep the Secretary
21 of Defense informed of all guidance issued and activities
22 carried out within the Department of Defense that relate
23 to the implementation of this Act and the amendments
24 made by this Act.

1 (b) APPLICABILITY.—This Act and the amendments
2 made by this Act shall apply with respect to the activities,
3 personnel, resources, and facilities of the Department of
4 Defense that are located within the United States as well
5 as those facilities, regardless of whether permanent or
6 temporary, that are located outside the United States.

7 (c) REPORTING REQUIREMENTS.—The Secretary of
8 Defense shall submit to Congress a semiannual progress
9 report on the implementation of this Act and the amend-
10 ments made by this Act.

11 **SEC. 13. WAIVER AUTHORITY.**

12 (a) IN GENERAL.—The Secretary of Defense may
13 waive the implementation or operation of provision of this
14 Act or an amendment made by this Act if the Secretary
15 certifies to the Congress that implementation or continued
16 operation of the provision would adversely impact the na-
17 tional security of the United States.

18 (b) INTELLIGENCE ACTIVITY WAIVER.—The Direc-
19 tor of National Intelligence, in consultation with the Sec-
20 retary of Defense, may exempt an intelligence activity of
21 the United States, and related personnel, resources, and
22 facilities, from a provision of this Act or an amendment
23 made by this Act to the extent the Director and Secretary

- 1 determine necessary to protect intelligence sources and
- 2 methods from unauthorized disclosure.

