

113TH CONGRESS  
1ST SESSION

# S. 1230

To reduce oil consumption and improve energy security, and for other purposes.

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IN THE SENATE OF THE UNITED STATES

JUNE 26, 2013

Mr. WYDEN (for himself and Ms. STABENOW) introduced the following bill; which was read twice and referred to the Committee on Energy and Natural Resources

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## A BILL

To reduce oil consumption and improve energy security, 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 “Alternative Fueled Vehicles Competitiveness and Energy  
6 Security Act of 2013”.

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

- Sec. 1. Short title; table of contents.
- Sec. 2. Definitions.
- Sec. 3. Loan guarantees for alternative fuel infrastructure.
- Sec. 4. Advanced technology vehicles manufacturing incentive program.

- Sec. 5. Conventional fuel replacement calculation and assessment.
- Sec. 6. Technical assistance and coordination.
- Sec. 7. Workforce training.
- Sec. 8. Reduction of engine idling and conventional fuel consumption.
- Sec. 9. Electric, hydrogen, and natural gas utility and oil pipeline participation.
- Sec. 10. Federal fleets.
- Sec. 11. HOV lane access extension.

1 **SEC. 2. DEFINITIONS.**

2 In this Act:

3 (1) **ALTERNATIVE FUEL.**—The term “alter-  
 4 native fuel” has the meaning given the term in sec-  
 5 tion 301 of the Energy Policy Act of 1992 (42  
 6 U.S.C. 13211).

7 (2) **ALTERNATIVE FUELED VEHICLE.**—The  
 8 term “alternative fueled vehicle” has the meaning  
 9 given the term in section 301 of the Energy Policy  
 10 Act of 1992 (42 U.S.C. 13211).

11 (3) **COMMUNITY COLLEGE.**—The term “commu-  
 12 nity college” has the meaning given the term “junior  
 13 or community college” in section 312 of the Higher  
 14 Education Act of 1965 (20 U.S.C. 1058).

15 (4) **DEPARTMENT.**—The term “Department”  
 16 means the Department of Energy.

17 (5) **NONROAD VEHICLE.**—

18 (A) **IN GENERAL.**—The term “nonroad ve-  
 19 hicle” means a vehicle that is not licensed for  
 20 onroad use.

1 (B) INCLUSIONS.—The term “nonroad ve-  
2 hicle” includes a vehicle described in subpara-  
3 graph (A) that is used principally—

4 (i) for industrial, farming, or commer-  
5 cial use;

6 (ii) for rail transportation;

7 (iii) at an airport; or

8 (iv) for marine purposes.

9 (6) SECRETARY.—The term “Secretary” means  
10 the Secretary of Energy.

11 **SEC. 3. LOAN GUARANTEES FOR ALTERNATIVE FUEL IN-**  
12 **FRASTRUCTURE.**

13 Section 1703(b) of the Energy Policy Act of 2005  
14 (42 U.S.C. 16513(b)) is amended by adding at the end  
15 the following:

16 “(11) Infrastructure for provision and distribu-  
17 tion of alternative fuels.”.

18 **SEC. 4. ADVANCED TECHNOLOGY VEHICLES MANUFAC-**  
19 **TURING INCENTIVE PROGRAM.**

20 Section 136 of the Energy Independence and Security  
21 Act of 2007 (42 U.S.C. 17013) is amended—

22 (1) in subsection (a)—

23 (A) in paragraph (1)—

24 (i) by redesignating subparagraphs

25 (A) through (C) as clauses (i) through

1 (iii), respectively, and indenting appro-  
2 priately;

3 (ii) in the matter preceding clause (i)  
4 (as redesignated by clause (i)), by striking  
5 “means an ultra efficient vehicle or a light  
6 duty vehicle that meets—” and inserting  
7 “means—  
8 “(A) an ultra efficient vehicle or a light  
9 duty vehicle that meets—”;

10 (iii) in clause (iii) (as redesignated by  
11 clause (i)), by striking the period at the  
12 end and inserting a semicolon; and

13 (iv) by adding at the end the fol-  
14 lowing:

15 “(B) a vehicle (such as a medium-duty or  
16 heavy-duty work truck, bus, or rail transit vehi-  
17 cle) that—

18 “(i) is used on a public street, road,  
19 highway, or transitway;

20 “(ii) meets each applicable emission  
21 standard that is established as of the date  
22 of the application; and

23 “(iii) will reduce consumption of con-  
24 ventional motor fuel by 25 percent or  
25 more, as compared to existing surface

1 transportation technologies that perform a  
2 similar function, unless the Secretary de-  
3 termines that—

4 “(I) the percentage is not achiev-  
5 able for a vehicle type or class; and

6 “(II) an alternative percentage  
7 for that vehicle type or class will re-  
8 sult in substantial reductions in motor  
9 fuel consumption within the United  
10 States.”;

11 (B) in paragraph (3)(B)—

12 (i) by striking “equipment and” and  
13 inserting “equipment,”; and

14 (ii) by inserting “, and manufacturing  
15 process equipment” after “suppliers”; and

16 (C) by striking paragraph (4) and insert-  
17 ing the following:

18 “(4) QUALIFYING COMPONENTS.—The term  
19 ‘qualifying components’ means components, systems,  
20 or groups of subsystems that the Secretary deter-  
21 mines—

22 “(A) to be designed to improve fuel econ-  
23 omy or otherwise substantially reduce consump-  
24 tion of conventional motor fuel; or

1 “(B) to contribute measurably to the over-  
 2 all improved fuel use of an advanced technology  
 3 vehicle, including idle reduction technologies.”;

4 (2) in subsection (b), in the matter preceding  
 5 paragraph (1), by striking “to automobile” and in-  
 6 serting “to advanced technology vehicle”;

7 (3) in subsection (d)(1), in the first sentence,  
 8 by striking “a total of not more than  
 9 \$25,000,000,000 in”;

10 (4) in subsection (h)—

11 (A) in the subsection heading, by striking  
 12 “AUTOMOBILE” and inserting “ADVANCED  
 13 TECHNOLOGY VEHICLE”; and

14 (B) in paragraph (1)(B), by striking  
 15 “automobiles” each place it appears and insert-  
 16 ing “advanced technology vehicles”; and

17 (5) in subsection (i), by striking “2012” and in-  
 18 serting “2018”.

19 **SEC. 5. CONVENTIONAL FUEL REPLACEMENT CALCULA-**  
 20 **TION AND ASSESSMENT.**

21 (a) **METHODOLOGY.**—Not later than 180 days after  
 22 the date of enactment of this Act, the Secretary shall, by  
 23 rule, develop a methodology for calculating the equivalent  
 24 volumes of conventional fuel displaced by use of each alter-

1 native fuel to assess the effectiveness of alternative fuel  
2 and alternative fueled vehicles in reducing oil imports.

3 (b) NATIONAL ASSESSMENT.—Not later than 3 years  
4 after the date of enactment of this Act, the Secretary  
5 shall—

6 (1) conduct a national assessment (using the  
7 methodology developed under subsection (a)) of the  
8 effectiveness of alternative fuel and alternative  
9 fueled vehicles in reducing oil imports into the  
10 United States, including as assessment of—

11 (A) market penetration of alternative fuel  
12 and alternative fueled vehicles in the United  
13 States;

14 (B) successes and barriers to deployment  
15 identified by the programs established under  
16 this Act; and

17 (C) the maximum feasible deployment of  
18 alternative fuel and alternative fueled vehicles  
19 by 2020 and 2030; and

20 (2) report to Congress the results of the assess-  
21 ment.

22 **SEC. 6. TECHNICAL ASSISTANCE AND COORDINATION.**

23 (a) TECHNICAL ASSISTANCE TO STATE, LOCAL, AND  
24 TRIBAL GOVERNMENTS.—

1           (1) IN GENERAL.—In carrying out this title, the  
2 Secretary shall provide, at the request of the Gov-  
3 ernor, mayor, county executive, public utility com-  
4 missioner, or other appropriate official or designee,  
5 technical assistance to State, local, and tribal gov-  
6 ernments or to a public-private partnership de-  
7 scribed in paragraph (2) to assist with the deploy-  
8 ment of alternative fuel and alternative fueled vehi-  
9 cles and infrastructure.

10           (2) PUBLIC-PRIVATE PARTNERSHIP.—Technical  
11 assistance under this section may be awarded to a  
12 public-private partnership, comprised of State, local  
13 or tribal governments and nongovernmental entities,  
14 including—

15                   (A) electric or natural gas utilities or other  
16 alternative fuel distributors;

17                   (B) vehicle manufacturers;

18                   (C) alternative fueled vehicle or alternative  
19 fuel technology providers;

20                   (D) vehicle fleet owners;

21                   (E) transportation and freight service pro-  
22 viders; or

23                   (F) other appropriate non-Federal entities,  
24 as determined by the Secretary.



1           (3) ASSISTANCE.—The technical assistance de-  
2       scribed in paragraph (1) may include—

3           (A) coordination in the selection, location,  
4       and timing of alternative fuel recharging and  
5       refueling equipment and distribution infrastruc-  
6       ture, including the identification of transpor-  
7       tation corridors and specific alternative fuels  
8       that would be made available;

9           (B) development of protocols and commu-  
10      nication standards that facilitate vehicle refuel-  
11      ing and recharging into electric, natural gas,  
12      and other alternative fuel distribution systems;

13          (C) development of codes and standards  
14      for the installation of alternative fuel distribu-  
15      tion and recharging and refueling equipment;

16          (D) education and outreach for the deploy-  
17      ment of alternative fuel and alternative fueled  
18      vehicles; and

19          (E) utility rate design and integration of  
20      alternative fueled vehicles into electric and nat-  
21      ural gas utility distribution systems.

22      (b) COST SHARING.—Cost sharing for assistance  
23      awarded under this section shall be consistent with section  
24      988 of the Energy Policy Act of 2005 (42 U.S.C. 16352).

1 (c) AUTHORIZATION OF APPROPRIATIONS.—There is  
2 authorized to be appropriated to carry out this section  
3 \$50,000,000 for each of fiscal years 2014 through 2018.

4 **SEC. 7. WORKFORCE TRAINING.**

5 (a) IN GENERAL.—The Secretary, in consultation  
6 with the Secretary of Labor, shall award grants to commu-  
7 nity colleges, other institutions of higher education, and  
8 other qualified training and education institutions for the  
9 establishment or expansion of programs to provide train-  
10 ing and education for vocational workforce development  
11 for—

12 (1) the manufacture and maintenance of alter-  
13 native fueled vehicles; and

14 (2) the manufacture, installation, support, and  
15 inspection of alternative fuel recharging, refueling,  
16 and distribution infrastructure.

17 (b) PURPOSE.—Training funded under this section  
18 shall be intended to ensure that the workforce has the nec-  
19 essary skills needed to manufacture, install, and maintain  
20 alternative fuel infrastructure and alternative fueled vehi-  
21 cles.

22 (c) SCOPE.—Training funded under this section shall  
23 include training for—

24 (1) electricians, plumbers, pipefitters, and other  
25 trades and contractors who will be installing, main-

1 taining, or providing safety support for alternative  
 2 fuel recharging, refueling, and distribution infra-  
 3 structure;

4 (2) building code inspection officials;

5 (3) vehicle, engine, and powertrain dealers and  
 6 mechanics; and

7 (4) others positions as the Secretary determines  
 8 necessary to successfully deploy alternative fuels and  
 9 vehicles.

10 (d) AUTHORIZATION OF APPROPRIATIONS.—There is  
 11 authorized to be appropriated to carry out this section  
 12 \$50,000,000 for each of fiscal years 2014 through 2018.

13 **SEC. 8. REDUCTION OF ENGINE IDLING AND CONVEN-**  
 14 **TIONAL FUEL CONSUMPTION.**

15 (a) DEFINITION OF IDLE REDUCTION TECH-  
 16 NOLOGY.—Section 756(a) of the Energy Policy Act of  
 17 2005 (42 U.S.C. 16104(a)) is amended by striking para-  
 18 graph (5) and inserting the following:

19 “(5) IDLE REDUCTION TECHNOLOGY.—The  
 20 term ‘idle reduction technology’ means an advanced  
 21 truck stop electrification system, auxiliary power  
 22 unit, or other technology that—

23 “(A)(i) is used to reduce long-duration  
 24 idling; and



1 vehicles to be used for grid storage, ancillary serv-  
2 ices provision, and backup power;

3 (3) integration of plug-in electric drive vehicles  
4 with smart grid technology, including protocols and  
5 standards, necessary equipment, and information  
6 technology systems;

7 (4) technical and economic barriers to trans-  
8 shipment of biofuels by oil pipelines, or distribution  
9 of hydrogen; and

10 (5) any other barriers to installing sufficient  
11 and appropriate alternative fuel recharging and re-  
12 fueling infrastructure.

13 (b) CONSULTATION.—The Secretary shall carry out  
14 this section in consultation with—

15 (1) the Federal Energy Regulatory Commission;

16 (2) State public utility commissions;

17 (3) State consumer advocates;

18 (4) electric and natural gas utility and trans-  
19 mission owners and operators;

20 (5) oil pipeline owners and operators;

21 (6) hydrogen suppliers; and

22 (7) other affected entities.

23 (c) REPORT.—Not later than 2 years after the date  
24 of enactment of this Act, the Secretary shall submit to

1 Congress a report describing actions taken to carry out  
2 this section.

3 **SEC. 10. FEDERAL FLEETS.**

4 (a) IN GENERAL.—The Secretary (in consultation  
5 with the Administrator of General Services, the Secretary  
6 of Defense, the Postmaster General, and the Director of  
7 the Office of Management and Budget) shall establish an  
8 interagency coordination council for the development and  
9 procurement of alternative fueled vehicles by Federal  
10 agencies.

11 (b) ELECTRICITY AND NATURAL GAS.—Electricity  
12 and natural gas consumed by Federal agencies to fuel al-  
13 ternative fueled vehicles shall be—

14 (1) considered an alternative fuel; and

15 (2) accounted for under Federal fleet manage-  
16 ment reporting requirements, rather than under  
17 Federal building management reporting require-  
18 ments.

19 (c) ASSESSMENT AND REPORT.—Not later than 180  
20 days after the date of enactment of this Act, the Secretary  
21 (in consultation with the Administrator of General Serv-  
22 ices, the Secretary of Defense, the Postmaster General,  
23 and the Director of the Office of Management and Budg-  
24 et) shall complete an assessment of Federal Government  
25 fleets (including the United States Postal Service and the

1 Department of Defense) and submit to Congress a report  
2 that describes—

3           (1) for each Federal agency with a fleet of more  
4 than 200 vehicles, which types of vehicles the agency  
5 uses that would or would not be suitable for alter-  
6 native fuel use either through the procurement of  
7 new alternative fueled vehicles, or the conversion to  
8 alternative fuel, taking into account the types of ve-  
9 hicles for which alternative fuel could provide com-  
10 parable functionality and lifecycle costs;

11           (2) the quantity of alternative fueled vehicles  
12 that could be deployed by the Federal Government  
13 in 5 years and in 10 years, assuming that the vehi-  
14 cles are available and are purchased when new vehi-  
15 cles are needed or existing vehicles are replaced; and

16           (3) the estimated cost and benefits to the Fed-  
17 eral Government for vehicle purchases or conversions  
18 described in this subsection.

19 **SEC. 11. HOV LANE ACCESS EXTENSION.**

20 Section 166(b)(5) of title 23, United States Code, is  
21 amended—

22           (1) in subparagraph (A), by striking “Before  
23 September 30, 2017, the State” and inserting “The  
24 State”; and

1           (2) in subparagraph (B), by striking “Before  
2           September 30, 2017, the State” and inserting “The  
3           State”.

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