

113TH CONGRESS
1ST SESSION

S. _____

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

IN THE SENATE OF THE UNITED STATES

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

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 “(ii) allows for the main drive engine or
2 auxiliary refrigeration engine to be shut down;
3 or

4 “(B) uses an alternative fuel to reduce
5 consumption of conventional fuel and environ-
6 mental emissions.”.

7 (b) FUNDING.—Section 756(b)(4)(B) of the Energy
8 Policy Act of 2005 (42 U.S.C. 16104(b)(4)(B)) is amend-
9 ed in clauses (i) and (ii) by striking “fiscal year 2008”
10 each place it appears and inserting “each of fiscal years
11 2008 through 2018”.

12 **SEC. 9. ELECTRIC, HYDROGEN, AND NATURAL GAS UTILITY**
13 **AND OIL PIPELINE PARTICIPATION.**

14 (a) IN GENERAL.—The Secretary shall identify bar-
15 riers and remedies in existing electric and natural gas and
16 oil pipeline transmission and distribution systems to the
17 distribution of alternative fuels and the deployment of al-
18 ternative fuel recharging and refueling capability, at eco-
19 nomically competitive costs of alternative fuel for con-
20 sumers, including—

21 (1) model regulatory rate design and billing for
22 recharging and refueling alternative fueled vehicles;

23 (2) electric grid load management and applica-
24 tions that will allow batteries in plug-in electric drive

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”.