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(Original Signature of Member)

117TH CONGRESS
1ST SESSION

H. R. _____

To establish a grant program to map optimal locations for electric vehicle charging stations and the derived demand for electricity, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

Mr. O'HALLERAN introduced the following bill; which was referred to the Committee on _____

A BILL

To establish a grant program to map optimal locations for electric vehicle charging stations and the derived demand for electricity, 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 “Electric Vehicle Mobil-
5 ity Area Planning Act” or the “EV MAP Act”.

6 **SEC. 2. DEFINITIONS.**

7 In this Act:

1 (1) APPROPRIATE COMMITTEES OF CON-
2 GRESS.—The term “appropriate committees of Con-
3 gress” means—

4 (A) the Committee on Appropriations of
5 the Senate;

6 (B) the Committee on Energy and Natural
7 Resources of the Senate;

8 (C) the Committee on Appropriations of
9 the House of Representatives; and

10 (D) the Committee on Energy and Com-
11 merce of the House of Representatives.

12 (2) DIRECT CURRENT FAST CHARGING EQUIP-
13 MENT.—The term “direct current fast charging
14 equipment” means electric vehicle supply equipment
15 that provides a direct current power source at a
16 minimum of 50 kilowatts.

17 (3) ELIGIBLE ENTITY.—The term “eligible enti-
18 ty” means—

19 (A) a college or university;

20 (B) a nonprofit entity;

21 (C) an electric cooperative;

22 (D) a political subdivision of a State;

23 (E) any agency, authority, corporation, or
24 instrumentality of—

25 (i) a State;

1 (ii) a political subdivision of a State;

2 or

3 (iii) an Indian Tribe;

4 (F) a municipally owned electric utility;

5 (G) a Tribally owned electric utility;

6 (H) an investor-owned electric utility;

7 (I) a private entity; and

8 (J) a partnership of 2 or more entities de-

9 scribed in any of subparagraphs (A) through

10 (I).

11 (4) ELECTRIC VEHICLE.—The term “electric

12 vehicle” means a light-, medium-, or heavy-duty ve-

13 hicle that is powered primarily by an electric motor

14 drawing current from rechargeable batteries, includ-

15 ing—

16 (A) a battery electric vehicle; and

17 (B) a plug-in hybrid vehicle.

18 (5) ELECTRIC VEHICLE CHARGING STATION.—

19 The term “electric vehicle charging station” means

20 electric vehicle supply equipment that provides elec-

21 tric current to recharge electric vehicles, including,

22 as applicable, alternating current or direct current

23 charging capabilities, at—

24 (A) a multi-unit housing structure;

25 (B) a workplace;

1 (C) a commercial location; or

2 (D) any location that is open to the public.

3 (6) EVALUATION PERIOD.—The term “evalua-
4 tion period” means the 5-year period beginning on
5 the date on which an eligible entity receives a grant
6 under the program.

7 (7) GRANT DATE.—The term “grant date”
8 means the date on which an eligible entity receives
9 a grant under the program.

10 (8) INDIAN TRIBE.—The term “Indian Tribe”
11 has the meaning given the term in section 4 of the
12 Indian Self-Determination and Education Assistance
13 Act (25 U.S.C. 5304).

14 (9) LEVEL 2 CHARGING EQUIPMENT.—The
15 term “level 2 charging equipment” means electric
16 vehicle supply equipment that provides an alter-
17 nating current power source at a minimum of 240
18 volts.

19 (10) PROGRAM.—The term “program” means
20 the program established under section 3(a).

21 (11) SECRETARY.—The term “Secretary”
22 means the Secretary of Energy.

1 **SEC. 3. ELECTRIC VEHICLE CHARGING STATION MAPPING**
2 **PROGRAM.**

3 (a) IN GENERAL.—Not later than 180 days after the
4 date of enactment of this Act, the Secretary shall establish
5 a program to provide grants to, or enter into cooperative
6 agreements with, eligible entities to carry out activities de-
7 scribed in subsection (c)—

8 (1) to determine the locations in which electric
9 vehicle charging stations will be needed to meet the
10 needs of electric vehicle drivers during the evaluation
11 period; and

12 (2) to help guide future investments for electric
13 vehicle charging stations.

14 (b) APPLICATION; CONSIDERATION.—

15 (1) APPLICATION.—To be eligible to receive a
16 grant under the program, an eligible entity shall
17 submit to the Secretary an application at such time,
18 in such manner, and containing such information as
19 the Secretary may require.

20 (2) CONSIDERATION.—In awarding grants
21 under the program, the Secretary may take into con-
22 sideration and give priority to an eligible entity that
23 will carry out activities using grant funds with re-
24 spect to—

25 (A) a rural area; or

1 (B) an area where, as of the date of enact-
2 ment of this Act, there is a low concentration
3 of electric vehicle charging stations at locations
4 open to the public.

5 (c) USE OF GRANT.—An eligible entity may use a
6 grant received under the program—

7 (1) to evaluate, in an area in the United States
8 designated by the eligible entity—

9 (A) the locations of electric vehicle owners
10 on the grant date; and

11 (B) the potential locations of electric vehi-
12 cle owners during the evaluation period, based
13 on data such as commuting and travel patterns;

14 (2) to evaluate, in the area designated by the
15 eligible entity, estimated commuting and travel pat-
16 terns of electric vehicles—

17 (A) on the grant date; and

18 (B) during the evaluation period;

19 (3) to estimate, for the area designated by the
20 eligible entity, the quantity of electricity required to
21 serve electric vehicle charging stations—

22 (A) on the grant date; and

23 (B) during the evaluation period;

24 (4) to develop a map identifying concentrations
25 of electric vehicle charging stations to meet the

1 needs of current and future electric vehicle drivers in
2 the area designated by the eligible entity, based on
3 data such as commuting and travel patterns;

4 (5) to estimate future needs for electric vehicle
5 charging stations in the area designated by the eligi-
6 ble entity to support the adoption and use of electric
7 vehicles in shared mobility solutions, such as micro-
8 transit and transportation network companies; or

9 (6) to develop an analytical model to allow a
10 city, county, or other political subdivision of a State
11 or a local agency to compare and evaluate different
12 adoption and use scenarios for electric vehicles and
13 electric vehicle charging stations, with the ability to
14 adjust factors to account for locally and regionally
15 specific characteristics.

16 (d) ELECTRIC VEHICLE CHARGING STATION DATA-
17 BASE.—Not later than 1 year after the date of enactment
18 of this Act, the Secretary shall establish and maintain a
19 fully searchable database, which shall be accessible on the
20 website of the Department of Energy, that contains, at
21 a minimum—

22 (1) information maintained by the Office of En-
23 ergy Efficiency and Renewable Energy of the De-
24 partment of Energy with respect to the locations of
25 electric vehicle charging stations;

1 (2) potential locations for electric vehicle charg-
2 ing stations identified by eligible entities through the
3 program; and

4 (3) the ability for a user of the database to sort
5 generated electric vehicle charging station results by
6 various characteristics with respect to those electric
7 vehicle charging stations, including—

8 (A) location, in terms of the State, city, or
9 other area specified by the user;

10 (B) accessibility, in terms whether the sta-
11 tion is public or private;

12 (C) status, in terms of whether the station
13 is available, planned, or a potential location
14 identified by an eligible entity under the pro-
15 gram; and

16 (D) charging type, in terms of—

17 (i) level 2 charging equipment; or

18 (ii) direct current fast charging equip-
19 ment.

20 (e) REPORTS.—

21 (1) REPORTS TO CONGRESS.—Not later than
22 18 months after the date of enactment of this Act,
23 and annually thereafter during for duration of the
24 program, the Secretary shall submit to the appro-

1 appropriate committees of Congress a report on the out-
2 comes of the program, including—

3 (A) the concentrations and, to the max-
4 imum extent practicable, number of locations of
5 electric vehicle charging stations identified by
6 eligible entities in—

7 (i) rural areas;

8 (ii) urban areas; or

9 (iii) other areas with a combination of
10 rural and urban areas;

11 (B) an analysis, based on the concentra-
12 tions or number of locations of electric vehicle
13 charging stations identified by eligible entities,
14 of—

15 (i) the potential of electric vehicle
16 charging stations to reasonably support
17 travel patterns of various distances for op-
18 erators of electric vehicles; and

19 (ii) any relevant variables with respect
20 to the quantity of electricity required to
21 serve, or that may impact the efficacy of,
22 electric vehicle charging stations in—

23 (I) rural areas;

24 (II) urban areas; or

1 (III) other areas with a combina-
2 tion of rural and urban areas;

3 (C) a summary of characteristics, trends,
4 or lessons learned by eligible entities in identi-
5 fying concentrations or locations of electric ve-
6 hicle charging stations in—

7 (i) rural areas;

8 (ii) urban areas; or

9 (iii) other areas with a combination of
10 rural and urban areas; and

11 (D) such other information as the Sec-
12 retary determines to be appropriate.

13 (2) REPORTS TO THE SECRETARY.—

14 (A) IN GENERAL.—To facilitate the prepa-
15 ration of each report described in paragraph
16 (1), each eligible entity receiving a grant under
17 the program shall submit to the Secretary 1 or
18 more reports containing, as applicable, the pre-
19 liminary or complete findings, data, and results
20 of each activity carried out by the eligible entity
21 using the grant.

22 (B) TIMING.—

23 (i) FIRST REPORT.—The first report
24 submitted under subparagraph (A) shall be
25 submitted on the earlier of—

1 (I) the date on which the find-
2 ings, data, and results described in
3 that subparagraph are available; and

4 (II) the date that is 1 year after
5 the grant date.

6 (ii) **SUBSEQUENT REPORTS.**—If the
7 first report submitted by an eligible entity
8 under this paragraph does not contain the
9 complete findings, data, and results of
10 each activity carried out by the eligible en-
11 tity using the applicable grant, a subse-
12 quent report shall be submitted as soon as
13 practicable after the date on which those
14 complete findings, data, and results are
15 available.

16 **SEC. 4. AUTHORIZATION OF APPROPRIATIONS.**

17 (a) **IN GENERAL.**—There is authorized to be appro-
18 priated to carry out this Act \$2,000,000 for each of fiscal
19 years 2022 through 2027.

20 (b) **ADMINISTRATIVE COSTS.**—Of the amounts made
21 available to the Secretary under subsection (a) each fiscal
22 year, the Secretary may use not more than 5 percent for
23 administrative expenses necessary to carry out this Act.