117TH CONGRESS 2D SESSION

H. R. 7453

To require the Secretary of Energy to complete and publish a study and develop a plan related to the ability of the electric system to meet the electricity demand of new electric vehicle charging infrastructure, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

April 7, 2022

Mr. Casten (for himself and Mr. Tonko) introduced the following bill; which was referred to the Committee on Energy and Commerce

A BILL

To require the Secretary of Energy to complete and publish a study and develop a plan related to the ability of the electric system to meet the electricity demand of new electric vehicle charging infrastructure, 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 Grid
- 5 Readiness, Improvement, and Development Act" or the
- 6 "EV GRID Act".

1	SEC. 2. STUDY AND PLAN RELATED TO ABILITY OF THE
2	ELECTRIC SYSTEM TO MEET THE ELEC-
3	TRICITY DEMAND OF NEW ELECTRIC VEHI-
4	CLE CHARGING INFRASTRUCTURE.
5	(a) Study.—
6	(1) In general.—Not later than 6 months
7	after the date of enactment of this section, the Sec-
8	retary of Energy shall complete and publish on the
9	website of the Department of Energy a study that
0	assesses the ability of the electric system to meet the
1	electricity demand of electric vehicle charging infra-
2	structure that is installed on or after the date of en-
3	actment of this section.
4	(2) Inclusions.—The study completed and
5	published under paragraph (1) shall—
6	(A) include an estimate of—
7	(i) the amount of growth in the use of
8	electric vehicles that is necessary to meet
9	the President's greenhouse gas reduction
20	target; and
21	(ii) how much additional electrical
22	generation, transmission, and distribution
23	capacity will need to be added to the elec-
24	tric system to meet the electricity demand
25	of electric vehicle charging infrastructure
26	that is installed on or after the date of en-

actment of this section, including how such
electricity demand varies by geography,
population density, vehicle-grid interaction
scenario, and the time of usage of such
electric vehicle charging infrastructure;
and

- (B) identify geographic areas in which greater investment in the electric system is necessary to meet the electricity demand of electric vehicle charging infrastructure installed on or after the date of enactment of this section in such geographic areas.
- 13 (b) PLAN AND RECOMMENDATIONS.—Not later than
 14 3 months after the date on which the study is published
 15 under subsection (a), the Secretary of Energy shall, in co16 ordination with the Building a Better Grid Initiative of
 17 the Office of Electricity and the Vehicle Technologies Of18 fice of the Office of Energy Efficiency and Renewable En19 ergy—
 - (1) develop a plan, based on such study, for how the Department of Energy may assist the electric system with meeting the increase in the demand for electricity estimated in such study; and
- 24 (2) provide to Congress recommendations for 25 legislation that would support the Department of

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- 1 Energy with assisting the electric system as de-
- 2 scribed in paragraph (1).
- 3 (c) AUTHORIZATION OF APPROPRIATIONS.—There is
- 4 authorized to be appropriated to the Secretary of Energy
- 5 to carry out this section \$4,000,000 for fiscal year 2023.
- 6 (d) Definitions.—In this section:
- 7 (1)ELECTRIC VEHICLE CHARGING 8 STRUCTURE.—The term "electric vehicle charging 9 infrastructure" means the charging infrastructure 10 necessary to support light duty, medium duty, and 11 heavy duty on-road electric vehicles, including such 12 charging infrastructure that is located at a work-13 place, recreational destination, vehicle corridor, 14 home, or depot.
 - (2) President's Greenhouse Gas reduction target" means the President's target of reducing greenhouse gas pollution by 50 to 52 percent from 2005 levels by 2030.

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