	(Original	Signature	of Member)	

117TH CONGRESS 2D SESSION

## H.R.

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

Mr.	Casten	of Illinois	introduced	the	following	bill;	which	was	referred	to	the
		Commit	tee on						_		

## 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
10	assesses the ability of the electric system to meet the
11	electricity demand of electric vehicle charging infra-
12	structure that is installed on or after the date of en-
13	actment of this section.
14	(2) Inclusions.—The study completed and
15	published under paragraph (1) shall—
16	(A) include an estimate of—
17	(i) the amount of growth in the use of
18	electric vehicles that is necessary to meet
19	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-

1	actment of this section, including how such
2	electricity demand varies by geography,
3	population density, vehicle-grid interaction
4	scenario, and the time of usage of such
5	electric vehicle charging infrastructure;
6	and
7	(B) identify geographic areas in which
8	greater investment in the electric system is nec-
9	essary to meet the electricity demand of electric
10	vehicle charging infrastructure installed on or
11	after the date of enactment of this section in
12	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 co-
16	ordination with the Building a Better Grid Initiative of
17	the Office of Electricity and the Vehicle Technologies Of-
18	fice of the Office of Energy Efficiency and Renewable En-
19	ergy—
20	(1) develop a plan, based on such study, for
21	how the Department of Energy may assist the elec-
22	tric system with meeting the increase in the demand
23	for electricity estimated in such study; and
24	(2) provide to Congress recommendations for
25	legislation that would support the Department of

1 Energy with assisting the electric system as de-2 scribed in paragraph (1). 3 (c) AUTHORIZATION OF APPROPRIATIONS.—There is 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. 15 (2) President's greenhouse gas reduc-TION TARGET.—The term "President's greenhouse 16 17 gas reduction target" means the President's target 18 of reducing greenhouse gas pollution by 50 to 52 19 percent from 2005 levels by 2030.