

117TH CONGRESS
1ST SESSION

S. 2310

To require the Secretary of Energy to conduct a study regarding codes and standards for use of energy storage systems across sectors and demonstrate certain second-life applications of electric vehicle batteries, and for other purposes.

IN THE SENATE OF THE UNITED STATES

JULY 12, 2021

Mr. KING introduced the following bill; which was read twice and referred to the Committee on Energy and Natural Resources

A BILL

To require the Secretary of Energy to conduct a study regarding codes and standards for use of energy storage systems across sectors and demonstrate certain second-life applications of electric vehicle batteries, 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,*

1 **SECTION 1. STUDY OF CODES AND STANDARDS FOR USE OF**
2 **ENERGY STORAGE SYSTEMS ACROSS SEC-**
3 **TORS.**

4 (a) IN GENERAL.—The Secretary shall conduct a
5 study of types and commercial applications of codes and
6 standards applied to—

- 7 (1) stationary energy storage systems;
8 (2) mobile energy storage systems; and
9 (3) energy storage systems that move between
10 stationary and mobile applications, such as electric
11 vehicle batteries or batteries repurposed for new ap-
12 plications.

13 (b) PURPOSES.—The purposes of the study con-
14 ducted under subsection (a) shall be—

- 15 (1) to identify barriers, foster collaboration, and
16 increase conformity across sectors relating to—

17 (A) use of emerging energy storage tech-
18 nologies; and

19 (B) use cases, such as vehicle-to-grid inte-
20 gration;

- 21 (2) to identify all existing codes and standards
22 that apply to energy storage systems;

23 (3) to identify codes and standards that require
24 revision or enhancement;

25 (4) to enhance the safe implementation of en-
26 ergy storage systems; and

1 (5) to receive formal input from stakeholders
 2 regarding—

3 (A) existing codes and standards; and

4 (B) new or revised codes and standards.

5 (c) CONSULTATION.—In conducting the study under
 6 subsection (a), the Secretary shall consult with all relevant
 7 standards-developing organizations and other entities with
 8 expertise regarding energy storage system safety.

9 (d) REPORT.—Not later than 18 months after the
 10 date of enactment of this Act, the Secretary shall submit
 11 to Congress a report describing the results of the study
 12 conducted under subsection (a).

13 **SEC. 2. DEMONSTRATION OF ELECTRIC VEHICLE BATTERY**
 14 **SECOND-LIFE APPLICATIONS FOR GRID**
 15 **SERVICES.**

16 Section 3201(c) of the Energy Act of 2020 (42
 17 U.S.C. 17232(c)) is amended—

18 (1) in paragraph (1)—

19 (A) by striking the period at the end and
 20 inserting “; and”;

21 (B) by striking “including at” and insert-
 22 ing the following: “including—

23 “(A) at”; and

24 (C) by adding at the end the following:

1 “(B) 1 project to demonstrate second-life
 2 applications of electric vehicle batteries as ag-
 3 gregated energy storage installations to provide
 4 services to the electric grid, in accordance with
 5 paragraph (3).”;

6 (2) by redesignating paragraphs (3) and (4) as
 7 paragraphs (4) and (5), respectively; and

8 (3) by inserting after paragraph (2) the fol-
 9 lowing:

10 “(3) DEMONSTRATION OF ELECTRIC VEHICLE
 11 BATTERY SECOND-LIFE APPLICATIONS FOR GRID
 12 SERVICES.—

13 “(A) IN GENERAL.—The Secretary shall
 14 enter into an agreement to carry out a project
 15 to demonstrate second-life applications of elec-
 16 tric vehicle batteries as aggregated energy stor-
 17 age installations to provide services to the elec-
 18 tric grid.

19 “(B) PURPOSES.—The purposes of the
 20 project under subparagraph (A) shall be—

21 “(i) to demonstrate power safety and
 22 the reliability of the applications dem-
 23 onstrated under the program;

24 “(ii) to demonstrate the ability of
 25 electric vehicle batteries—

1 “(I) to provide ancillary services
2 for grid stability and management;
3 and

4 “(II) to reduce the peak loads of
5 homes and businesses;

6 “(iii) to extend the useful life of elec-
7 tric vehicle batteries and the components
8 of electric vehicle batteries prior to the col-
9 lection, recycling, and reprocessing of the
10 batteries and components; and

11 “(iv) to increase acceptance of, and
12 participation in, the use of second-life ap-
13 plications of electric vehicle batteries by
14 utilities.

15 “(C) PRIORITY.—In selecting a project to
16 carry out under subparagraph (A), the Sec-
17 retary shall give priority to projects in which
18 the demonstration of the applicable second-life
19 applications is paired with 1 or more facilities
20 that could particularly benefit from increased
21 resiliency and lower energy costs, such as a
22 multi-family affordable housing facility, a senior
23 care facility, and a community health center.”.

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