To amend the United States Energy Storage Competitiveness Act of 2007 to direct the Secretary of Energy to establish new goals for the Department of Energy relating to energy storage and to carry out certain demonstration projects relating to energy storage.

IN THE SENATE OF THE UNITED STATES

JUNE 28, 2017

Mr. Flake (for himself and Mr. Heinrich) introduced the following bill; which was read twice and referred to the Committee on Energy and Natural Resources

A BILL

To amend the United States Energy Storage Competitiveness Act of 2007 to direct the Secretary of Energy to establish new goals for the Department of Energy relating to energy storage and to carry out certain demonstration projects relating to energy storage.

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 “Energy Storage Goals
5 and Demonstration Projects Act”.

Be it enacted by the Senate and House of Representa-
tives of the United States of America in Congress assembled,
The United States Energy Storage Competitiveness Act of 2007 (42 U.S.C. 17231) is amended—

(1) by striking subsection (d) and inserting the following:

“(d) COORDINATION; RESEARCH GOALS.—

“(1) COORDINATION.—In carrying out the activities under this section, the Secretary shall coordinate the activities with—

“(A) appropriate Federal agencies, including the Department of Transportation and the Federal Energy Regulatory Commission; and

“(B) to advance the development of commercially viable energy storage systems, members of private industry.

“(2) RESEARCH GOALS.—The Secretary shall—

“(A) establish subgoals for the program established under subsection (c) that support the conduct of demonstration projects under subsection (i)(5); and

“(B) align specific activities carried out under the program established under subsection (c) with priorities identified through direct consultations between—
“(i) the Department;
“(ii) national laboratories;
“(iii) traditional end-users, such as electric utilities; and
“(iv) potential end-users of new generations of energy storage systems.”; and

(2) in subsection (i), by adding at the end the following:

“(5) PHASE 2 OF GRID-SCALE ENERGY STORAGE DEMONSTRATION PROJECTS.—

“(A) IN GENERAL.—Not later than September 30, 2028, as part of the program established under subsection (c), the Secretary shall, to the maximum extent practicable, enter into agreements to carry out not fewer than 3 grid-scale energy storage demonstration projects.

“(B) OBJECTIVES.—Each demonstration project carried out under subparagraph (A) shall be designed—

“(i) to demonstrate that grid-scale energy storage technologies can be commercially deployed;

“(ii) to be deployed at an installed energy capital cost of less than $100 per kWh;
“(iii) to have a minimum of 1 full charge and discharge cycle per day; and
“(iv) to have a lifetime of at least 5,000 cycles of discharge at full output.”.