

117TH CONGRESS
2D SESSION

S. 4754

To require the Secretary of Energy to conduct a study and submit a report on national resource adequacy, and for other purposes.

IN THE SENATE OF THE UNITED STATES

AUGUST 3, 2022

Mr. BRAUN 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 and submit a report on national resource adequacy, 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. STUDY AND REPORT ON NATIONAL RESOURCE**
4 **ADEQUACY.**

5 (a) DEFINITIONS.—In this section:

6 (1) RESOURCE ADEQUACY.—The term “re-
7 source adequacy” means the ability of supply side
8 and demand-side resources to meet aggregate elec-
9 tricity demand (including losses).

1 (2) SECRETARY.—The term “Secretary” means
2 the Secretary of Energy.

3 (b) STUDY.—The Secretary shall conduct a com-
4 prehensive study on national resource adequacy to deter-
5 mine—

6 (1) how recent retirements of baseload electric
7 generation have affected the regional firm capacity
8 available for all regional electric grids;

9 (2) the effects that planned retirements of base-
10 load electric generation and the increased need for
11 peaking capacity have or would have on energy
12 shortfalls;

13 (3) how the variable nature of certain sources
14 of energy production and forecasting errors may im-
15 pact resource adequacy and capacity accreditation;

16 (4)(A) a range of potential future electricity de-
17 mand trajectories that captures the uncertainty rep-
18 resented by a changing climate, decarbonization, and
19 macroeconomic factors; and

20 (B) whether that future electricity demand re-
21 quires increasing firm capacity or interregional
22 transmission to load match with regional peak power
23 demand during all hours of the year; and

24 (5) the extent to which variable generation
25 technologies in concert with other technical and non-

1 technical solutions can provide adequate capacity to
2 meet a range of potential future electricity demand
3 trajectories.

4 (c) REPORT.—Not later than 180 days after the date
5 of enactment of this Act, the Secretary shall submit to
6 the Committee on Energy and Natural Resources of the
7 Senate and the Committee on Energy and Commerce of
8 the House of Representatives a report describing the re-
9 sults of the study conducted under subsection (b), includ-
10 ing recommendations for Congress to ensure that the
11 United States maintains necessary resource adequacy to
12 meet forecasted demand.

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