

118TH CONGRESS
2D SESSION

S. 4080

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

APRIL 9, 2024

Mr. BRAUN (for himself and Mr. SCOTT of Florida) 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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