

119TH CONGRESS
2D SESSION

H. R. 9339

IN THE SENATE OF THE UNITED STATES

SEPTEMBER 16, 2026

Received; read twice and referred to the Committee on Energy and Natural
Resources

AN ACT

To require the Secretary of Energy to conduct an assessment
on the use of artificial intelligence and high-performance
computing technologies to enhance the bulk-power sys-
tem, 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. SHORT TITLE.**

2 This Act may be cited as the “Affordable Innovation
3 for the Grid Act”.

4 **SEC. 2. ASSESSMENT ON USE OF ARTIFICIAL INTEL-**
5 **LIGENCE AND HIGH-PERFORMANCE COM-**
6 **PUTING TECHNOLOGIES TO ENHANCE BULK-**
7 **POWER SYSTEM.**

8 (a) **ASSESSMENT.**—Not later than 90 days after the
9 date of enactment of this Act, the Secretary of Energy,
10 in consultation with the Federal Energy Regulatory Com-
11 mission and the Electric Reliability Organization, shall
12 conduct an assessment on the use of artificial intelligence
13 and high-performance computing technologies, including
14 an assessment of the employment of probabilistic oper-
15 ating techniques by artificial intelligence and high-per-
16 formance computing technologies, to enhance the capacity,
17 reliable operation, and operational efficiency of the bulk-
18 power system.

19 (b) **MATTERS.**—The assessment conducted under
20 subsection (a) shall include an assessment of—

21 (1) the potential for artificial intelligence and
22 high-performance computing technologies to expedite
23 generator and load interconnection studies;

24 (2) the current applications, and levels of adop-
25 tion, of artificial intelligence and high-performance

1 computing technologies with respect to the operation
2 of the bulk-power system; and

3 (3) any technical, regulatory, cybersecurity, or
4 operational limitation affecting such adoption.

5 (c) REPORT.—Not later than one year after the date
6 of enactment of this Act, the Secretary of Energy shall
7 submit to the Committee on Energy and Commerce of the
8 House of Representatives and the Committee on Energy
9 and Natural Resources of the Senate a report on the as-
10 sessment conducted under subsection (a), including rec-
11 ommendations to—

12 (1) overcome any limitation assessed under sub-
13 section (b)(3); and

14 (2) facilitate the adoption and integration of ar-
15 tificial intelligence and high-performance computing
16 technologies with respect to the operation of the
17 bulk-power system.

18 (d) DEFINITIONS.—In this section, the terms “bulk-
19 power system”, “Electric Reliability Organization”, and
20 “reliable operation” have the meanings given those terms

1 in section 215(a) of the Federal Power Act (16 U.S.C.
2 824o(a)).

Passed the House of Representatives September 15,
2026.

Attest: KEVIN F. MCCUMBER,
Clerk.