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(Original Signature of Member)

119TH CONGRESS
1ST SESSION

H. R.

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 system, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

M. _____ introduced the following bill; which was referred to the
Committee on _____

A BILL

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 system, 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. SHORT TITLE.**

4 This Act may be cited as the “Affordable Innovation
5 for the Grid Act”.

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

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

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

18 (1) the current applications, and levels of adop-
19 tion, of artificial intelligence and high-performance
20 computing technologies with respect to the operation
21 of the bulk-power system; and

22 (2) any technical, regulatory, cybersecurity, or
23 operational limitation affecting such adoption.

24 (c) **REPORT.**—Not later than one year after the date
25 of enactment of this Act, the Secretary of Energy shall
26 submit to the Committee on Energy and Commerce of the

1 House of Representatives and the Committee on Energy
2 and Natural Resources of the Senate a report on the as-
3 sessment conducted under subsection (a), including rec-
4 ommendations to—

5 (1) overcome any limitation assessed under sub-
6 section (b)(2); and

7 (2) facilitate the adoption and integration of ar-
8 tificial intelligence and high-performance computing
9 technologies with respect to the operation of the
10 bulk-power system.

11 (d) DEFINITIONS.—In this section, the terms “bulk-
12 power system”, “Electric Reliability Organization”, and
13 “reliable operation” have the meanings given those terms
14 in section 215(a) of the Federal Power Act (16 U.S.C.
15 824o(a)).