

119TH CONGRESS
1ST SESSION

H. R. 3638

AN ACT

To direct the Secretary of Energy to prepare periodic assessments and submit reports on the supply chain for the generation and transmission of electricity, 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 “Electric Supply Chain
3 Act”.

4 **SEC. 2. ASSESSMENT AND REPORT ON THE SUPPLY CHAIN**
5 **FOR THE GENERATION AND TRANSMISSION**
6 **OF ELECTRICITY.**

7 (a) ASSESSMENT.—In carrying out the requirements
8 of the Department of Energy Organization Act (42 U.S.C.
9 7101 et seq.), the Secretary shall, for purposes of moni-
10 toring the supply chain for the generation and trans-
11 mission of electricity and in consultation with relevant
12 stakeholders, prepare periodic assessments on such supply
13 chain that—

14 (1) include information on—

15 (A) efforts and opportunities to strength-
16 en, secure, and expand such supply chain, in-
17 cluding with respect to overcoming obstacles to
18 broader deployment of advanced transmission
19 technologies, including advanced conductors and
20 other technologies that can be installed to in-
21 crease the transfer capacity, efficiency, afford-
22 ability, reliability, or resiliency of transmission
23 infrastructure;

24 (B) any trends, risks, and vulnerabilities in
25 the supply, demand, and availability of compo-
26 nents for or related to generating or transmit-

1 ting electricity, including components that are
2 necessary for the construction or deployment of
3 facilities that generate or transmit electricity or
4 can support advanced transmission tech-
5 nologies, including advanced conductors and
6 other technologies that can be installed to in-
7 crease the transfer capacity, efficiency, afford-
8 ability, reliability, or resiliency of transmission
9 infrastructure;

10 (C) national security and energy security
11 considerations for strengthening, securing, and
12 expanding such supply chain, including efforts
13 of any foreign entity of concern to exploit sup-
14 ply chain disruptions for the purposes of under-
15 mining United States leadership in artificial in-
16 telligence development;

17 (D) barriers to expanding the capacity
18 to—

19 (i) manufacture, deliver, and install
20 components for or related to generating or
21 transmitting electricity in the United
22 States; and

23 (ii) process critical materials in the
24 United States;

1 (E) domestic policies that deter or other-
2 wise inhibit greater investment into such supply
3 chain;

4 (F) the effects of any reliance of the
5 United States on any foreign entity of concern
6 for—

7 (i) components for or related to gener-
8 ating or transmitting electricity; and

9 (ii) the exploration, development, or
10 production of critical materials necessary
11 for manufacturing such components;

12 (G) workforce challenges affecting such
13 supply chain;

14 (H) any vulnerabilities from the employ-
15 ment of any non-United States citizen at a fa-
16 cility located in the United States that gen-
17 erates or transmits electricity; and

18 (I) opportunities to expand participation in
19 the workforce supporting such supply chain by
20 veterans, transitioning servicemembers, and
21 military spouses, including any barriers to entry
22 in such workforce and opportunities for en-
23 hanced Federal coordination;

24 (2) identify emerging issues in such supply
25 chain; and

1 (3) include recommendations to—

2 (A) address any emerging issues identified
3 under paragraph (2); and

4 (B) secure and expand such supply chain.

5 (b) REPORT.—Not later than one year after the date
6 of enactment of this Act, and periodically thereafter, the
7 Secretary shall submit to the appropriate committees of
8 Congress a report on the most recent assessment prepared
9 under subsection (a).

10 (c) DEFINITIONS.—In this section:

11 (1) APPROPRIATE COMMITTEES OF CON-
12 GRESS.—The term “appropriate committees of Con-
13 gress” means—

14 (A) the Committee on Energy and Com-
15 merce of the House of Representatives; and

16 (B) the Committee on Energy and Natural
17 Resources of the Senate.

18 (2) CRITICAL MATERIAL.—The term “critical
19 material” has the meaning given such term in sec-
20 tion 7002(a) of the Energy Act of 2020 (30 U.S.C.
21 1606(a)).

22 (3) ELECTRIC RELIABILITY ORGANIZATION.—
23 The term “Electric Reliability Organization” has the
24 meaning given such term in section 215(a) of the
25 Federal Power Act (42 U.S.C. 824o(a)).

1 (4) ELECTRIC UTILITY.—The term “electric
2 utility” has the meaning given such term in section
3 3 of the Federal Power Act (16 U.S.C. 796).

4 (5) FOREIGN ENTITY OF CONCERN.—The term
5 “foreign entity of concern” has the meaning given
6 such term in section 40207(a) of the Infrastructure
7 Investment and Jobs Act (42 U.S.C. 18741(a)).

8 (6) RELEVANT STAKEHOLDER.—The term “rel-
9 evant stakeholder”—

10 (A) means a stakeholder that is involved
11 in—

12 (i) the generation, storage, trans-
13 mission, or distribution of electricity; or

14 (ii) the supply chain for such genera-
15 tion, storage, transmission, or distribution;
16 and

17 (B) includes an electric utility, an electric
18 grid component manufacturer, a person who
19 constructs an electric generating facility, an
20 electric power system cybersecurity expert, the
21 Electric Reliability Organization, a ratepayer
22 advocacy stakeholder, and any other related pri-
23 vate sector stakeholder.

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

 Passed the House of Representatives December 11,
2025.

Attest:

Clerk.

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