

119TH CONGRESS  
1ST SESSION

# H. R. 3638

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IN THE SENATE OF THE UNITED STATES

DECEMBER 15, 2025

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

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## 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.

