

119TH CONGRESS  
1ST SESSION

# H. R. 5410

To direct the Secretary of Energy to support research and development on extraction of critical minerals from brine to reduce the dependence of the United States on the importation of such minerals, illustrating that innovative technology for domestic extraction could be a more cost efficient and environmentally friendly alternative than traditional extraction methods, and for other purposes.

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## IN THE HOUSE OF REPRESENTATIVES

SEPTEMBER 16, 2025

Mr. SCHWEIKERT introduced the following bill; which was referred to the Committee on Science, Space, and Technology

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## A BILL

To direct the Secretary of Energy to support research and development on extraction of critical minerals from brine to reduce the dependence of the United States on the importation of such minerals, illustrating that innovative technology for domestic extraction could be a more cost efficient and environmentally friendly alternative than traditional extraction methods, 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 “Critical Mineral Brine  
3 Extraction Research and Development Act”.

4 **SEC. 2. RESEARCH AND DEVELOPMENT.**

5       (a) IN GENERAL.—The Secretary of Energy shall—

6           (1) support research and development on the  
7       scale-up, evaluation, and potential commercialization  
8       of the technology for extraction of critical minerals  
9       from brine; and

10          (2) conduct demonstrations of such technology,  
11       in collaboration with private sector industry, in order  
12       to—

13           (A) further performance enhancement re-  
14       lating to such technology; and

15           (B) reduce associated costs.

16       (b) REPORT TO CONGRESS.—Not later than one year  
17 after the date of the enactment of this Act, the Secretary  
18 of Energy, in coordination with the Secretary of Com-  
19 merce and the Secretary of Defense, shall submit to the  
20 Committee on Science, Space, and Technology, the Com-  
21 mittee on Energy and Commerce, and the Committee on  
22 Armed Services of the House of Representatives, and the  
23 Committee on the Environment and Public Works, the  
24 Committee on Energy and Natural Resources, and the  
25 Committee on Armed Services of the Senate a report on  
26 the technical and economic feasibility of technology for the

1 extraction of critical minerals from brine, and potential  
2 barriers for the expansion of the use of such technology  
3 for domestic purposes, including options for Federal-pri-  
4 vate partnerships for reducing costs and improving the ef-  
5 ficiency of extraction of critical minerals from brine.

6 (c) AUTHORIZATION OF APPROPRIATIONS.—There is  
7 authorized to be appropriated \$2,000,000 dollars for each  
8 of fiscal years 2026 through 2030 to carry out subsection  
9 (a).

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