

**AMENDMENT**

**TO THE COMMITTEE PRINT TO H.R. 2986**

Page 1, line 9, strike “(n) through (r)” and insert “(p) through (t)”.

Page 13, line 15, strike “(r)” and insert “(t)”.

Page 14, line 8, strike all that follows through page 15, line 13, and insert the following:

1 **SEC. 3. CRITICAL MINERAL RECYCLING AND REUSE RE-**  
2 **SEARCH, DEVELOPMENT, AND DEMONSTRA-**  
3 **TION PROGRAM.**

4 The United States Energy Storage Competitiveness  
5 Act of 2007 (42 U.S.C. 17231) is amended by inserting  
6 after subsection (m), as so designated by section 2, the  
7 following:

8 “(n) CRITICAL MINERAL RECYCLING AND REUSE  
9 RESEARCH, DEVELOPMENT, AND DEMONSTRATION PRO-  
10 GRAM.—

11 “(1) DEFINITIONS.—In this subsection:

12 “(A) CRITICAL MINERAL.—The term ‘crit-  
13 ical mineral’ means any of a class of chemical  
14 elements that have a high risk of a supply dis-  
15 ruption and are critical to one or more new, en-

1           ergy-related technologies such that a shortage  
2           of such element would significantly inhibit  
3           large-scale deployment of technologies that  
4           store energy.

5           “(B) RECYCLING.—The term ‘recycling’  
6           means the separation of critical minerals em-  
7           bedded within an energy storage system  
8           through physical or chemical means and reuse  
9           of those separated critical minerals in other  
10          technologies.

11          “(2) ESTABLISHMENT.—Not later than 180  
12          days after the date of enactment of the BEST Act,  
13          the Secretary shall establish a research, develop-  
14          ment, and demonstration program of recycling of en-  
15          ergy storage systems containing critical minerals.

16          “(3) RESEARCH, DEVELOPMENT, AND DEM-  
17          ONSTRATION.—In carrying out the program, the  
18          Secretary may focus research, development, and  
19          demonstration activities on—

20                  “(A) technologies, process improvements,  
21                  and design optimizations that facilitate and  
22                  promote recycling, including—

23                          “(i) improvement of efficiency and  
24                          rates of collection of products and scrap

1 containing critical minerals from con-  
2 sumer, industrial, and other waste streams;

3 “(ii) separation and sorting of compo-  
4 nent materials in energy storage systems  
5 containing critical minerals, including im-  
6 proving the recyclability of such energy  
7 storage systems;

8 “(iii) safe storage of energy storage  
9 systems, including reducing fire risk;

10 “(iv) safe transportation of energy  
11 storage systems and components; and

12 “(v) development of technologies to  
13 advance energy storage recycling facility  
14 infrastructure, including integrated recy-  
15 cling facilities that can process multiple  
16 materials;

17 “(B) research and development of tech-  
18 nologies that mitigate emissions and environ-  
19 mental impacts that arise from recycling, in-  
20 cluding disposal of toxic reagents and byprod-  
21 ucts related to recycling processes;

22 “(C) research and development of tech-  
23 nologies to enable recycling of critical materials  
24 from batteries in electric vehicles;

1           “(D) research on and analysis of non-tech-  
2           nical barriers to improving the transportation of  
3           energy storage systems containing critical min-  
4           erals; and

5           “(E) research on technologies and methods  
6           to enable the safe disposal of energy storage  
7           systems containing critical minerals, including  
8           waste materials and components recovered dur-  
9           ing the recycling process.

10          “(4) REPORT TO CONGRESS.—Not later than 2  
11          years after the date of enactment of the BEST Act,  
12          and every 3 years thereafter, the Secretary shall  
13          submit to the Committee on Science, Space, and  
14          Technology of the House of Representatives and the  
15          Committee on Energy and Natural Resources of the  
16          Senate a report summarizing the activities, findings,  
17          and progress of the program.

18          “(o) DEFINITIONS.—For purposes of subsections (l),  
19          (m), and (n), the following definitions apply:

20                 “(1) ENERGY STORAGE SYSTEM.—The term  
21                 ‘energy storage system’ means a system, equipment,  
22                 facility, or technology relating to the electric grid  
23                 that—

1           “(A) is capable of absorbing energy, stor-  
2           ing such energy for a period of time, and dis-  
3           patching such energy after storage; and

4           “(B) uses a mechanical, electrical, chem-  
5           ical, electrochemical, or thermal process to store  
6           such energy, or any other process that the Sec-  
7           retary determines relevant.

8           “(2) ISLAND.—The term ‘island’ means one or  
9           more distributed generators or energy storage sys-  
10          tems that continues to power a location in the ab-  
11          sence of electricity from the electric grid.

12          “(3) MICROGRID.—The term ‘microgrid’ means  
13          an integrated energy system consisting of inter-con-  
14          nected loads and distributed energy resources, in-  
15          cluding generators and energy storage systems, with-  
16          in clearly defined electrical boundaries that—

17                 “(A) acts as a single controllable entity  
18                 with respect to the grid; and

19                 “(B) can connect and disconnect from the  
20                 grid to operate in either grid-connected mode or  
21                 island-mode; or

22                 “(C) can operate in the absence of the  
23                 grid.

24          “(4) NATIONAL LABORATORY.—The term ‘na-  
25          tional laboratory’ has the meaning given the term in

1 section 2 of the Energy Policy Act of 2005 (42  
2 U.S.C. 15801).”.

