

111TH CONGRESS
1ST SESSION

H. R. 2347

To encourage the manufacture and use of efficient and advanced electric transmission cables, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

MAY 12, 2009

Mr. HOYER introduced the following bill; which was referred to the Committee on Energy and Commerce, and in addition to the Committee on Science and Technology, for a period to be subsequently determined by the Speaker, in each case for consideration of such provisions as fall within the jurisdiction of the committee concerned

A BILL

To encourage the manufacture and use of efficient and advanced electric transmission cables, 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 “Advanced Cable De-
5 ployment Authorization Act of 2009”.

1 **SEC. 2. SUPPORT FOR QUALIFIED ADVANCED ELECTRIC**
2 **TRANSMISSION MANUFACTURING PLANTS,**
3 **QUALIFIED HIGH EFFICIENCY TRANSMISSION**
4 **PROPERTY, AND QUALIFIED ADVANCED**
5 **ELECTRIC TRANSMISSION PROPERTY.**

6 (a) LOAN GUARANTEES PRIOR TO SEPTEMBER 30,
7 2011.—Section 1705(a) of the Energy Policy Act of 2005
8 (42 U.S.C. 15801 and following), as added by section 406
9 of the American Recovery and Reinvestment Act of 2009
10 (Public Law 109–58; 119 Stat. 594) is amended by add-
11 ing the following new paragraph at the end thereof:

12 “(5) The development, construction, acquisition,
13 retrofitting, or engineering integration of a qualified
14 advanced electric transmission manufacturing plant
15 or the construction of a qualified high efficiency
16 transmission property or a qualified advanced elec-
17 tric transmission property (whether by construction
18 of new facilities or the modification of existing facili-
19 ties). For purposes of this paragraph—

20 “(A) The term ‘qualified advanced electric
21 transmission property’ means any high voltage
22 electric transmission cable, related substation,
23 converter station, or other integrated facility
24 that—

25 “(i) utilizes advanced ultra low resist-
26 ance superconductive material or other ad-

1 vanced technology that has been deter-
2 mined by the Secretary of Energy as—

3 “(I) reasonably likely to become
4 commercially viable within 10 years
5 after the date of enactment of this
6 paragraph;

7 “(II) capable of reliably transmit-
8 ting at least 5 gigawatts of high-volt-
9 age electric energy for distances
10 greater than 300 miles with energy
11 losses not exceeding 3 percent of the
12 total power transported; and

13 “(III) not creating an electro-
14 magnetic field;

15 “(ii) has been determined by an ap-
16 propriate energy regulatory body, upon ap-
17 plication, to be in the public interest and
18 thereby eligible for inclusion in regulated
19 rates;

20 “(iii) can be located safely and eco-
21 nomically in a permanent underground
22 right of way not to exceed 25 feet in width;
23 and

24 “(iv) TERMINATION.—The term
25 ‘qualified advanced electric transmission

1 property' shall not include any property
2 placed in service after December 31, 2016.

3 “(B)(i) The term ‘qualified high efficiency
4 transmission property’ means any high voltage
5 overhead electric transmission line, related sub-
6 station, or other integrated facility that—

7 “(I) utilizes advanced conductor
8 core technology that—

9 “(aa) has been determined
10 by the Secretary of Energy as
11 reasonably likely to become com-
12 mercially viable within 10 years
13 after the date of enactment of
14 this paragraph;

15 “(bb) is suitable for use on
16 transmission lines up to 765kV;
17 and

18 “(cc) exhibits power losses
19 at least 30 percent lower than
20 that of transmission lines using
21 conventional “ACSR” conduc-
22 tors;

23 “(II) has been determined by an
24 appropriate energy regulatory body,
25 upon application, to be in the public

1 interest and thereby eligible for inclu-
2 sion in regulated rates; and

3 “(III) can be located safely and
4 economically in a right of way not to
5 exceed that used by conventional
6 “ACSR” conductors; and

7 “(ii) TERMINATION.—The term ‘qualified
8 high efficiency transmission property’ shall not
9 include any property placed in service after De-
10 cember 31, 2016.

11 “(C) The term ‘qualified advanced electric
12 transmission manufacturing plant’ means any
13 industrial facility located in the United States
14 which can be equipped, re-equipped, expanded,
15 or established to produce in whole or in part
16 qualified advanced electric transmission prop-
17 erty.”.

18 (b) ADDITIONAL LOAN GUARANTEE AUTHORITY.—
19 Section 1703 of the Energy Policy Act of 2005 (42 U.S.C.
20 15801 and following) is amended by adding the following
21 new paragraph at the end of subsection (b):

22 “(11) The development, construction, acquisi-
23 tion, retrofitting, or engineering integration of a
24 qualified advanced electric transmission manufac-
25 turing plant or the construction of a qualified ad-

1 vanced electric transmission property (whether by
2 construction of new facilities or the modification of
3 existing facilities). For purposes of this paragraph,
4 the terms ‘qualified advanced electric transmission
5 property’ and ‘qualified advanced electric trans-
6 mission manufacturing plant’ have the meanings
7 provided by section 1705(a)(5).”.

8 (c) GRANTS.—The Secretary of Energy is authorized
9 to provide grants for up to 50 percent of costs incurred
10 in connection with the development, construction, acquisi-
11 tion of components or engineering of a qualified advanced
12 electric transmission property defined in paragraph (5) of
13 section 1705(a) of the Energy Policy Act of 2005 (42
14 U.S.C. 15801 and following). Such grants may only be
15 made to the first project which qualifies under that para-
16 graph. There are authorized to be appropriated for pur-
17 poses of this section not more than \$100,000,000 for fiscal
18 year 2010. The United States shall take no equity or other
19 ownership interest in the qualified advanced electric trans-
20 mission manufacturing plant or qualified advanced electric
21 transmission property for which funding is provided under
22 this section.

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