

## Union Calendar No. 105

110TH CONGRESS  
1ST SESSION

# H. R. 1716

[Report No. 110-173]

To authorize higher education curriculum development and graduate training  
in advanced energy and green building technologies.

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### IN THE HOUSE OF REPRESENTATIVES

MARCH 27, 2007

Mr. McCAUL of Texas (for himself, Mr. HILL, Mr. EHLERS, Ms. SCHWARTZ,  
and Mr. McCOTTER) introduced the following bill; which was referred to  
the Committee on Science and Technology

JUNE 5, 2007

Additional sponsors: Mrs. BIGGERT, Ms. GRANGER, Mr. GILCHREST, and Ms.  
EDDIE BERNICE JOHNSON of Texas

JUNE 5, 2007

Reported with an amendment, committed to the Committee of the Whole  
House on the State of the Union, and ordered to be printed

[Strike out all after the enacting clause and insert the part printed in italic]

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## A BILL

To authorize higher education curriculum development and  
graduate training in advanced energy and green building  
technologies.

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 “Green Energy Edu-  
3 cation Act of 2007”.

4 **SEC. 2. DEFINITION.**

5 For the purposes of this Act:

6 (1) **DIRECTOR.**—The term “Director” means  
7 the Director of the National Science Foundation.

8 (2) **HIGH PERFORMANCE BUILDING.**—The term  
9 “high performance building” has the meaning given  
10 that term in section 914(a) of the Energy Policy Act  
11 of 2005 (42 U.S.C. 16194(a)).

12 (3) **SECRETARY.**—The term “Secretary” means  
13 the Secretary of Energy.

14 **SEC. 3. GRADUATE TRAINING IN ENERGY RESEARCH AND**  
15 **DEVELOPMENT.**

16 (a) **FUNDING.**—In carrying out research, develop-  
17 ment, demonstration, and commercial application activi-  
18 ties authorized for the Department of Energy, the Sec-  
19 retary may contribute funds to the National Science Foun-  
20 dation for the Integrative Graduate Education and Re-  
21 search Traineeship program to support projects that en-  
22 able graduate education related to such activities.

23 (b) **CONSULTATION.**—The Director shall consult with  
24 the Secretary when preparing solicitations and awarding  
25 grants for projects described in subsection (a).

1 **SEC. 4. CURRICULUM DEVELOPMENT FOR HIGH PERFORM-**  
2 **ANCE BUILDING DESIGN.**

3 (a) **FUNDING.**—In carrying out advanced energy  
4 technology research, development, demonstration, and  
5 commercial application activities authorized for the De-  
6 partment of Energy related to high performance buildings,  
7 the Secretary may contribute funds to curriculum develop-  
8 ment activities at the National Science Foundation for the  
9 purpose of improving undergraduate or graduate inter-  
10 disciplinary engineering and architecture education related  
11 to the design and construction of high performance build-  
12 ings, including development of curricula, of laboratory ac-  
13 tivities, of training practicums, or of design projects. A  
14 primary goal of curriculum development activities sup-  
15 ported under this section shall be to improve the ability  
16 of engineers, architects, and planners to work together on  
17 the incorporation of advanced energy technologies during  
18 the design and construction of high performance buildings.

19 (b) **CONSULTATION.**—The Director shall consult with  
20 the Secretary when preparing solicitations and awarding  
21 grants for projects described in subsection (a).

22 (c) **PRIORITY.**—In awarding grants with respect to  
23 which the Secretary has contributed funds under this sec-  
24 tion, the Director shall give priority to applications from  
25 departments, programs, or centers of a school of engineer-  
26 ing that are partnered with schools, departments, or pro-

1 grams of design, architecture, and city, regional, or urban  
2 planning.

3 **SECTION 1. SHORT TITLE.**

4 *This Act may be cited as the “Green Energy Education*  
5 *Act of 2007”.*

6 **SEC. 2. DEFINITION.**

7 *For the purposes of this Act:*

8 (1) *DIRECTOR.*—*The term “Director” means the*  
9 *Director of the National Science Foundation.*

10 (2) *HIGH PERFORMANCE BUILDING.*—*The term*  
11 *“high performance building” has the meaning given*  
12 *that term in section 914(a) of the Energy Policy Act*  
13 *of 2005 (42 U.S.C. 16194(a)).*

14 (3) *SECRETARY.*—*The term “Secretary” means*  
15 *the Secretary of Energy.*

16 **SEC. 3. GRADUATE TRAINING IN ENERGY RESEARCH AND**  
17 **DEVELOPMENT.**

18 (a) *FUNDING.*—*In carrying out research, development,*  
19 *demonstration, and commercial application activities au-*  
20 *thorized for the Department of Energy, the Secretary may*  
21 *contribute funds to the National Science Foundation for the*  
22 *Integrative Graduate Education and Research Traineeship*  
23 *program to support projects that enable graduate education*  
24 *related to such activities.*

1           (b) *CONSULTATION.*—*The Director shall consult with*  
2 *the Secretary when preparing solicitations and awarding*  
3 *grants for projects described in subsection (a).*

4 **SEC. 4. CURRICULUM DEVELOPMENT FOR HIGH PERFORM-**  
5 **ANCE BUILDING DESIGN.**

6           (a) *FUNDING.*—*In carrying out advanced energy tech-*  
7 *nology research, development, demonstration, and commer-*  
8 *cial application activities authorized for the Department of*  
9 *Energy related to high performance buildings, the Secretary*  
10 *may contribute funds to curriculum development activities*  
11 *at the National Science Foundation for the purpose of im-*  
12 *proving undergraduate or graduate interdisciplinary engi-*  
13 *neering and architecture education related to the design and*  
14 *construction of high performance buildings, including devel-*  
15 *opment of curricula, of laboratory activities, of training*  
16 *practicums, or of design projects. A primary goal of cur-*  
17 *riculum development activities supported under this section*  
18 *shall be to improve the ability of engineers, architects, land-*  
19 *scape architects, and planners to work together on the incor-*  
20 *poration of advanced energy technologies during the design*  
21 *and construction of high performance buildings.*

22           (b) *CONSULTATION.*—*The Director shall consult with*  
23 *the Secretary when preparing solicitations and awarding*  
24 *grants for projects described in subsection (a).*

1       (c) *PRIORITY.*—*In awarding grants with respect to*  
2 *which the Secretary has contributed funds under this sec-*  
3 *tion, the Director shall give priority to applications from*  
4 *departments, programs, or centers of a school of engineering*  
5 *that are partnered with schools, departments, or programs*  
6 *of design, architecture, and city, regional, or urban plan-*  
7 *ning.*



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110<sup>TH</sup> CONGRESS  
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