

110TH CONGRESS
1ST SESSION

H. R. 2774

To support the research, development, and commercial application of solar energy technologies, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

JUNE 19, 2007

Ms. GIFFORDS introduced the following bill; which was referred to the Committee on Science and Technology

A BILL

To support the research, development, and commercial application of solar energy technologies, 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 “Solar Energy Research
5 and Advancement Act of 2007”.

6 **SEC. 2. DEFINITIONS.**

7 For purposes of this Act:

8 (1) The term “Department” means the Depart-
9 ment of Energy.

1 (2) The term “Secretary” means the Secretary
2 of Energy.

3 **SEC. 3. THERMAL ENERGY STORAGE RESEARCH AND DE-**
4 **VELOPMENT PROGRAM.**

5 (a) ESTABLISHMENT.—The Secretary shall establish
6 a program of research and development to provide lower
7 cost and more viable thermal energy storage technologies
8 to enable the shifting of electric power loads on demand
9 and extend the operating time of concentrating solar
10 power electric generating plants.

11 (b) AUTHORIZATION OF APPROPRIATIONS.—There
12 are authorized to be appropriated to the Secretary for car-
13 rying out this section \$5,000,000 for fiscal year 2008,
14 \$7,000,000 for fiscal year 2009, \$9,000,000 for fiscal year
15 2010, \$10,000,000 for fiscal year 2011, and \$12,000,000
16 for fiscal year 2012.

17 **SEC. 4. CONCENTRATING SOLAR POWER COMMERCIAL AP-**
18 **PLICATION STUDIES.**

19 (a) INTEGRATION.—The Secretary shall conduct a
20 study on methods to integrate concentrating solar power
21 into regional electricity transmission systems, and to iden-
22 tify new transmission or transmission upgrades needed to
23 bring electricity from high concentrating solar power re-
24 source areas to growing electric power load centers
25 throughout the United States. The study shall analyze and

1 assess approaches for management and integration of con-
2 centrating solar power into regional electric transmission
3 grids to improve electric reliability, to efficiently manage
4 load, and to reduce demand on the natural gas trans-
5 mission system for electric power. The Secretary shall sub-
6 mit a report to Congress on the results of this study not
7 later than 12 months after the date of enactment of this
8 Act.

9 (b) WATER CONSUMPTION.—Not later than 6
10 months after the date of the enactment of this Act, the
11 Secretary of Energy shall transmit to Congress a report
12 on the results of a study on methods to reduce the amount
13 of water consumed by concentrating solar power systems.

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