110TH CONGRESS 1ST SESSION

H. R. 3775

To support research and development of new industrial processes and technologies that optimize energy efficiency and environmental performance, utilize diverse sources of energy, and increase economic competitiveness.

IN THE HOUSE OF REPRESENTATIVES

October 9, 2007

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

A BILL

To support research and development of new industrial processes and technologies that optimize energy efficiency and environmental performance, utilize diverse sources of energy, and increase economic competitiveness.

- 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 "Industrial Energy Effi-
- 5 ciency Research and Development Act of 2007".
- 6 SEC. 2. FINDINGS.
- 7 The Congress finds the following:

- 1 (1) According to the Energy Information Ad2 ministration's 2006 Annual Energy Review, the in3 dustrial sector in 2006 accounted for more energy
 4 use (32 percent) than the residential (21 percent),
 5 commercial (18 percent), or transportation sector
 6 (29 percent).
 - (2) The Department of Energy has demonstrated the success of public-private partnerships to research, develop, and deploy new energy efficient technologies which reduce emissions and improve manufacturing competitiveness.
 - (3) Innovations in manufacturing processes may be translated into efficiency improvements in buildings, transportation, and other economic sectors.
 - (4) While past public-private partnerships have resulted in significant energy efficiency improvements in manufacturing processes, there is a need for new technologies to achieve continual energy efficiency improvements.
 - (5) Innovations made in the last few decades assisted the United States in remaining competitive in the global market. Continued innovation in the areas of energy efficiency and feedstock diversifica-

- tion are necessary to enable the United States to
 maintain a competitive edge.
- 3 (6) The Department of Energy should continue 4 collaborative efforts with industry, particularly the 5 manufacturing sector, to broaden and accelerate the 6 high-risk research and development of new manufac-7 turing processes that optimize energy efficiency and 8 utilize diverse sources of energy.
- 9 (7) These partnerships support critical research 10 and development capabilities at universities and 11 other research institutions while training engineers 12 in critical areas of energy systems and efficient in-13 dustrial process technologies.

14 SEC. 3. INDUSTRIAL TECHNOLOGIES PROGRAM.

- 15 (a) IN GENERAL.—The Secretary of Energy (in this Act referred to as the "Secretary") shall establish a pro-16 17 gram, in cooperation with energy-intensive industries, in-18 dustry trade associations representing such industries, 19 and institutions of higher education, to conduct research, 20 development, demonstration, and commercial application 21 activities with respect to new industrial and commercial 22 processes, technologies, and methods to—
- 23 (1) achieve—
- 24 (A) substantial improvements in energy ef-25 ficiency; and

1	(B) environmental performance improve-
2	ments such as waste reduction, emissions reduc-
3	tions, and more efficient water use; and
4	(2) enhance the economic competitiveness of the
5	United States industrial sector.
6	(b) Program Activities.—Research, development,
7	demonstration, and commercial application activities
8	under this section may include—
9	(1) activities to support the development and
10	use of technologies and processes that improve the
11	quality and quantity of feedstocks recovered or recy-
12	cled from process and waste streams;
13	(2) research to meet manufacturing feedstock
14	requirements with alternative resources;
15	(3) research to develop and demonstrate tech-
16	nologies and processes that utilize alternative energy
17	sources to supply heat, power, and new feedstocks
18	for energy-intensive industries;
19	(4) research to achieve energy efficiency in
20	steam, power, control system, and process heat tech-
21	nologies, and in other manufacturing processes; and
22	(5) a program to fund research, development,
23	and demonstration relating to inventors' and small
24	companies' technology proposals, based on energy

1	savings potential, commercial viability, and technical
2	merit.
3	(c) Financial Assistance.—Financial assistance
4	under this section may be in the form of grants, contracts
5	and cooperative agreements, which shall be subject to cost
6	sharing as required under applicable Federal law.
7	(d) Competitive Awards.—All awards under this
8	section shall be made on a competitive, merit-reviewed
9	basis.
10	(e) COORDINATION AND NONDUPLICATION.—The
11	Secretary shall, coordinate efforts under this section with
12	other programs of the Department and other Federal
13	agencies, to avoid duplication of effort.
	SEC. 4. UNIVERSITY-BASED INDUSTRIAL RESEARCH AND
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	ASSESSMENT CENTERS.
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15 16 17 18 19 20 21	ASSESSMENT CENTERS. To strengthen the program under section 3, the Sectorary shall provide funding to university-based industrial research and assessment centers, whose purpose shall be— (1) to identify opportunities for optimizing energy efficiency and environmental performance;

1	(3) to promote the research and development
2	for usage of alternative energy sources to supply
3	heat, power, and new feedstocks for energy intensive
4	industries;

- (4) to coordinate with appropriate State research offices, and provide a clearinghouse for industrial process and energy efficiency technical assistance resources; and
- 9 (5) to coordinate with State-accredited technical 10 training centers and community colleges, while en-11 suring appropriate services to all regions of the 12 United States.

13 SEC. 5. AUTHORIZATION OF APPROPRIATIONS.

There are authorized to be appropriated to the Sec-15 retary to carry out this Act \$150,000,000 for each of the 16 fiscal years 2009 through 2013.

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