110TH CONGRESS 1ST SESSION H.R. 3775

AN ACT

- 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,

1 SECTION 1. SHORT TITLE.

2 This Act may be cited as the "Industrial Energy Effi-

3 ciency Research and Development Act of 2007".

4 SEC. 2. FINDINGS.

5 The Congress finds the following:

6 (1) According to the Energy Information Ad-7 ministration's 2006 Annual Energy Review, the in-8 dustrial sector in 2006 accounted for more energy 9 use (32 percent) than the residential (21 percent), 10 commercial (18 percent), or transportation sector 11 (29 percent).

(2) The primary energy intensive industries
vital to maintaining our country's infrastructure and
economic and national security include steel, chemicals, metal casting, forest products, glass, aluminum,
petroleum refining, and mining, as well as other energy intensive manufacturers.

(3) The Department of Energy has demonstrated the success of public-private partnerships
with these industries resulting in research, development, and deployment of new energy efficient technologies which reduce emissions and improve manufacturing competitiveness.

24 (4) Innovations in manufacturing processes
25 within these industries may be translated into effi26 ciency improvements in buildings, transportation,
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and other economic sectors that depend upon these
 industries.

3 (5) While past public-private partnerships have
4 resulted in significant energy efficiency improve5 ments in manufacturing processes, there is a need
6 for new technologies to achieve continual energy effi7 ciency improvements.

8 (6) Innovations made in the last few decades 9 assisted the United States in remaining competitive 10 in the global market. Continued innovation in the 11 areas of energy efficiency and feedstock diversifica-12 tion are necessary to enable the United States to 13 maintain a competitive edge.

(7) The Department of Energy should continue
collaborative efforts with industry, particularly the
manufacturing sector, to broaden and accelerate the
high-risk research and development of new manufacturing processes that optimize energy efficiency and
utilize diverse sources of energy.

20 (8) These partnerships support critical research
21 and development capabilities at universities and
22 other research institutions while training future gen23 erations of engineers in critical areas of energy sys24 tems and efficient industrial process technologies for
25 our domestic industries.

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1 SEC. 3. INDUSTRIAL TECHNOLOGIES PROGRAM.

2	(a) IN GENERAL.—The Secretary of Energy (in this
3	Act referred to as the "Secretary") shall establish a pro-
4	gram, in cooperation with energy-intensive industries,
5	trade and industry research collaborations representing
6	such industries, and institutions of higher education—
7	(1) to conduct energy research, development,
8	demonstration, and commercial application activities
9	with respect to new industrial and commercial proc-
10	esses, technologies, and methods to—
11	(A) achieve substantial improvements in
12	energy efficiency; and
13	(B) enhance the economic competitiveness
14	of the United States industrial sector; and
15	(2) to conduct environmental research and de-
16	velopment with respect to new industrial and com-
17	mercial processes, technologies, and methods to
18	achieve environmental performance improvements
19	such as waste reduction, emissions reductions, and
20	more efficient water use.
21	(b) PROGRAM ACTIVITIES.—Research, development,
22	demonstration, and commercial application activities
23	under this section may include—
24	(1) activities to support the development and
25	use of technologies and processes that improve the

1	quality and quantity of feedstocks recovered or recy-
2	cled from process and waste streams;
3	(2) research to meet manufacturing feedstock
4	requirements with alternative resources;
5	(3) research to develop and demonstrate tech-
6	nologies and processes that utilize alternative energy
7	sources to supply heat, power, and new feedstocks
8	for energy-intensive industries;
9	(4) research to achieve energy efficiency in
10	steam, power, control system, and process heat tech-
11	nologies, and in other manufacturing processes; and
12	(5) a program to fund research, development,
13	and demonstration relating to inventors' and small
14	companies' technology proposals, based on energy
15	savings potential, commercial viability, and technical
16	merit.
17	(c) Competitive Awards.—All awards under this
18	section shall be made on a competitive, merit-reviewed
19	basis.
20	(d) Coordination and Nonduplication.—The
21	Secretary shall, coordinate efforts under this section with
22	other programs of the Department and other Federal
23	agencies, to avoid duplication of effort.
24	(e) ANNUAL REPORT.—Not later than 1 year after

(e) ANNUAL REPORT.—Not later than 1 year afterthe date of enactment of this Act, and once every 2 years

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thereafter, the Secretary shall submit to the Congress a
 report on the activities conducted pursuant to this Act,
 including—

4 (1) a description of the activities used to facili5 tate cooperation with energy-intensive industries,
6 universities, and other participants in the program;
7 and

8 (2) a description of ongoing projects and new
9 projects initiated, and the anticipated energy savings
10 associated with achievement of each project's goals.
11 SEC. 4. UNIVERSITY-BASED INDUSTRIAL RESEARCH AND
12 ASSESSMENT CENTERS.

To strengthen the program under section 3, the Secretary shall provide funding to university-based industrial
research and assessment centers, whose purpose shall
be—

17 (1) to identify opportunities for optimizing en18 ergy efficiency and environmental performance;

19 (2) to promote application of emerging concepts
20 and technologies in small and medium-sized manu21 facturers;

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

(4) to coordinate with appropriate State re search offices, and provide a clearinghouse for indus trial process and energy efficiency technical assist ance resources; and

5 (5) to coordinate with State-accredited technical
6 training centers and community colleges, while en7 suring appropriate services to all regions of the
8 United States.

9 SEC. 5. AUTHORIZATION OF APPROPRIATIONS.

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

Passed the House of Representatives October 22, 2007.

Attest:

Clerk.

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