AMENDMENT IN THE NATURE OF A SUBSTITUTE TO H.R. 364

OFFERED BY MRS. BIGGERT OF ILLINOIS

Strike all after the enacting clause and insert the following:

1 SECTION 1. ARPA-E STUDY.

- 2 (a) In General.—The Secretary of Energy shall
- 3 enter into an arrangement with the National Academy of
- 4 Sciences to conduct a detailed study of, and make further
- 5 recommendations on, the October 2005 National Academy
- 6 of Sciences recommendation to establish an Advanced Re-
- 7 search Projects Agency—Energy (in this section referred
- 8 to as ARPA-E).
- 9 (b) REPORT.—Not later than 12 months after the
- 10 date of enactment of this Act, the Secretary shall transmit
- 11 to Congress the study described in subsection (a) and the
- 12 Secretary's response to the findings, conclusions, and rec-
- 13 ommendations of that study.
- 14 (c) Terms of Reference.—The Secretary shall en-
- 15 sure that the study described in subsection (a) addresses
- 16 at a minimum the following questions:
- 17 (1) What basic research related to new energy
- technologies is occurring now, what entities are

1	funding it, and what is preventing the results of that
2	research from reaching the market?
3	(2) What economic evidence indicates that the
4	limiting factor in the market penetration of new en-
5	ergy technologies is a lack of basic research on path-
6	breaking new technologies? What barriers do those
7	trying to develop new energy technologies face dur-
8	ing later stages of research and development?
9	(3) To what extent is the Defense Advanced
10	Research Projects Agency an appropriate model for
11	an energy research agency, given that the Federal
12	Government would not be the primary customer for
13	its technology and where cost is an important con-
14	cern?
15	(4) How would research and development spon-
16	sored by ARPA-E differ from research and develop-
17	ment conducted by the National Laboratories or
18	sponsored by the Department of Energy through the
19	Office of Science, the Office of Energy Efficiency
20	and Renewable Energy, the Office of Fossil Energy
21	the Office of Electricity Delivery and Energy Reli
22	ability, and the Office of Nuclear Energy?
23	(5) Should industry or National Laboratories be
24	recipients of ARPA-E grants? What institutional or
25	organizational arrangements would be required to

- 1 ensure that ARPA-E sponsors transformational,
- 2 rather than incremental, research and development?