

109TH CONGRESS
2^D SESSION

H. R. 5646

IN THE SENATE OF THE UNITED STATES

JULY 13, 2006

Received

AUGUST 4 (legislative day, AUGUST 3), 2006

Read twice and referred to the Committee on Energy and Natural Resources

AN ACT

To study and promote the use of energy efficient computer servers in the United States.

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. STUDY.**

2 Not later than 180 days after the date of enactment
3 of this Act, the Administrator of the Environmental Pro-
4 tection Agency, through the Energy Star program, shall
5 transmit to the Congress the results of a study analyzing
6 the rapid growth and energy consumption of computer
7 data centers by the Federal Government and private en-
8 terprise. The study shall include—

9 (1) an overview of the growth trends associated
10 with data centers and the utilization of servers in
11 the Federal Government and private sector;

12 (2) analysis of the industry migration to the use
13 of energy efficient microchips and servers designed
14 to provide energy efficient computing and reduce the
15 costs associated with constructing, operating, and
16 maintaining large and medium scale data centers;

17 (3) analysis of the potential cost savings to the
18 Federal Government, large institutional data center
19 operators, private enterprise, and consumers avail-
20 able through the adoption of energy efficient data
21 centers and servers;

22 (4) analysis of the potential cost savings and
23 benefits to the energy supply chain through the
24 adoption of energy efficient data centers and servers,
25 including reduced demand, enhanced capacity, and
26 reduced strain on existing grid infrastructure, and

1 consideration of secondary benefits, including poten-
2 tial impact of related advantages associated with
3 substantial domestic energy savings;

4 (5) analysis of the potential impacts of energy
5 efficiency on product performance, including com-
6 puting functionality, reliability, speed, and features,
7 and overall cost;

8 (6) analysis of the potential cost savings and
9 benefits to the energy supply chain through the use
10 of stationary fuel cells for backup power and distrib-
11 uted generation;

12 (7) an overview of current government incen-
13 tives offered for energy efficient products and serv-
14 ices and consideration of similar incentives to en-
15 courage the adoption of energy efficient data centers
16 and servers;

17 (8) recommendations regarding potential incen-
18 tives and voluntary programs that could be used to
19 advance the adoption of energy efficient data centers
20 and computing; and

21 (9) a meaningful opportunity for interested
22 stakeholders, including affected industry stake-
23 holders and energy efficiency advocates, to provide
24 comments, data, and other information on the scope,
25 contents, and conclusions of the study.

1 **SEC. 2. SENSE OF CONGRESS.**

2 It is the sense of Congress that it is in the best inter-
3 est of the United States for purchasers of computer serv-
4 ers to give high priority to energy efficiency as a factor
5 in determining best value and performance for purchases
6 of computer servers.

Passed the House of Representatives July 12, 2006.

Attest:

KAREN L. HAAS,

Clerk.