AMENDMENT NO._____ Calendar No._____

Purpose: To improve the bill.

IN THE SENATE OF THE UNITED STATES—111th Cong., 1st Sess.

S. 1462

To promote clean energy technology development, enhanced energy efficiency, improved energy security, and energy innovation and workforce development, and for other purposes.

Referred to the Committee on _____ and ordered to be printed

Ordered to lie on the table and to be printed

AMENDMENTS intended to be proposed by _____

Viz:

1 Beginning on page 323, strike line 16 and all that
2 follows through page 334, line 11.

3 On page 417, between lines 4 and 5, insert the fol-
4 lowing:

5 (3) ENERGY INNOVATION HUBS.—Research
6 conducted using a Grand Challenge research grant,
7 cooperative agreement, or other transaction under
8 this subsection may be called an Energy Innovation

Hub if the research meets the requirements of this section.

On page 417, after line 24, insert the following:

(3) in subsection (d), by adding at the end the following:

"(5) COMPENSATION.—The Director shall be compensated at the rate prescribed for level IV of the Executive Schedule under section 5315 of title 5, United States Code.";

On page 418, line 1, strike "(3)" and insert "(4)".

On page 418, line 3, strike "(4)" and insert "(5)".

On page 418, line 5, strike "(5)" and insert "(6)".

On page 418, line 11, strike "(6)" and insert "(7)".

On page 418, line 12, strike "(4)" and insert "(5)".

On page 418, line 14, strike "(7)" and insert "(8)".

On page 418, line 15, strike "(4)" and insert "(5)".

On page 418, line 20, strike "(8)" and insert "(9)".

On page 418, line 21, strike "(4)" and insert "(5)".

On page 418, line 23, strike "(9)" and insert "(10)".

On page 418, line 24, strike "(4)" and insert "(5)".

On page 435, between lines 13 and 14, insert the following:

"(5) how the curricula will meet established industry standards for particular fields of training;

"(6) the degree of involvement of the energy industry with the energy career academy;

On page 435, line 14, strike "(5)" and insert "(7)".

On page 435, line 17, strike "(6)" and insert "(8)".

On page 437, line 7, strike "**TRADES**" and insert "**TECHNICIAN**".

On page 437, line 16, strike "**TRADES**" and insert "**TECHNICIAN**".

On page 438, line 7, strike ''in trades'' and insert ''as technicians in the fields''.

On page 438, lines 11 and 12, strike ''in the energy utility trades, including technicians in the nuclear utilities industry'' and insert ''for technicians in the energy utility industry, including nuclear utilities''.

On page 438, line 15, strike ''private industry'' and insert ''applicable private industries''.

On page 439, line 3, strike ''and''.

On page 439, strike lines 4 and 5 and insert the following:

''(4) compliance with established industry training standards;

''(5) the long-term sustainability of the program without Federal funding, including cost sharing by industry; and

''(6) the ability to matriculate with institutions of higher education.

On page 439, strike lines 18 and 19 and insert the following:

"(2) train existing faculty;

"(3) develop or procure core and specialized course content;

"(4) procure necessary equipments for laboratories and field training;

On page 439, line 20, strike "(3)" and insert "(5)".

On page 439, line 22, strike "(4)" and insert "(6)".

On page 439, line 24, strike "(5)" and insert "(7)".

On page 441, line 5, insert ", in consultation with applicable energy technology industries," after "Secretary".

On page 441, line 7, insert "primary" after "provide".

On page 441, line 22, strike "and".

On page 441, between lines 22 and 23, insert the following:

"(5) a listing of applicable professional societies; and

On page 441, line 23, strike "(5)" and insert "(6)".

On page 448, between lines 9 and 10, insert the following:

SEC. 440. ADVISORY COMMITTEE ON ENERGY UTILITY WORKFORCE DEVELOPMENT.

(a) ESTABLISHMENT.—Not later than 90 days after the date of enactment of this Act, the Secretary shall establish an advisory committee on energy utility workforce development.

(b) MEMBERSHIP.—The advisory committee shall consist of individuals who are broadly representative and knowledgeable in the energy utility workforce fields.

(c) MEETING.—The advisory committee shall convene not less twice a year.

(d) REPORTING.—The advisory committee shall—

(1) report annually on whether the programs administered by the Department of Energy are adequately meeting the needs of the United States in providing a trained technical workforce to the energy utility industries; and

(2) make specific recommendations for areas of improvement.

(e) FEDERAL ADVISORY COMMITTEE ACT.—The Federal Advisory Committee Act (5 U.S.C. App.) shall apply to the activities carried out under this section.

On page 476, between lines 4 and 5, insert the following:

SEC. 472. FUTURE-YEARS DEPARTMENT OF ENERGY PROGRAM.

(a) IN GENERAL.—Part C of title VI of the Department of Energy Organization Act (42 U.S.C. 7251 et seq.) is amended by adding at the end the following:

"SEC. 664. FUTURE-YEARS DEPARTMENT OF ENERGY PROGRAM.

"(a) IN GENERAL.—At or about the time the budget of the President is submitted to Congress for each year under section 1105(a) of title 31, United States Code, the Secretary shall submit to Congress a future-years Department of Energy program (including associated annexes) reflecting the estimated expenditures and proposed appropriations included in the budget.

"(b) FISCAL YEAR.—Any future-years Department of Energy program submitted under subsection (a) shall cover—

"(1) the fiscal year with respect to which the budget is submitted; and

"(2) at least the 4 succeeding fiscal years.

"(c) CONSISTENT AMOUNTS.—

"(1) IN GENERAL.—The Secretary shall ensure that amounts described in paragraph (2)(A) for any fiscal year are consistent with amounts described in paragraph (2)(B) for that fiscal year.

"(2) AMOUNTS.—Amounts referred to in paragraph (1) are the following:

"(A) The amounts specified in program and budget information submitted to Congress by the Secretary in support of expenditure estimates and proposed appropriations in the budget submitted to Congress by the President under section 1105(a) of title 31, United States Code, for any fiscal year, as indicated in the future-years Department of Energy program submitted pursuant to subsection (a).

"(B) The total amounts of estimated expenditures and proposed appropriations necessary to support the programs, projects, and activities of the Department of Energy included pursuant to section 1105(a)(5) of title 31,

United States Code, in the budget submitted to Congress under that section for any fiscal year.

''(d) MANAGEMENT CONTINGENCIES.—Subject to subsection (c), nothing in this section prohibit the inclusion in the future-years Department of Energy programs of amounts for management contingencies.''.

(b) CONFORMING AMENDMENT.—The table of contents in the first section of the Department of Energy Organization Act (42 U.S.C. 7101) is amended by adding at the end of the items relating to part C of title VI the following:

''Sec. 664. Future-years Department of Energy program.''.

On page 476, line 5, strike ''**472**'' and insert ''**473**''.

On page 476, between lines 10 and 11, insert the following:

SEC. 474. SOLID-STATE LIGHTING MANUFACTURING.

Section 912(b) of the Energy Policy Act of 2005 (42 U.S.C. 16192(b)) is amended by inserting ''and manufacturing'' after ''technologies''.

SEC. 475. MERIT REVIEW OF PROPOSALS.

Section 989(b) of the Energy Policy Act of 2005 (42 U.S.C. 16353(b)) is amended by striking paragraph (5) and inserting the following:

"(5) Other Federal agencies.

"(6) Consortia of entities described in paragraphs (1) through (5).".

SEC. 476. REPORT ON WORKFORCE TRENDS.

Section 1101(b)(2) of the Energy Policy Act of 2005 (42 U.S.C. 16411(b)(2)) is amended by inserting "and annually thereafter through fiscal year 2020" after "this Act".

On page 476, line 11, strike "**473**" and insert "**477**".

On page 477, line 6, strike "**474**" and insert "**478**".