

AMENDMENT TO H.R. 2304
OFFERED BY MR. HALL OF TEXAS

Page 3, after line 11, insert the following new paragraph:

1 (4) GEOPRESSURED RESOURCES.—The term
2 “geopressured resources” mean geothermal deposits
3 found in sedimentary rocks under higher than nor-
4 mal pressure and saturated with gas or methane.

Page 3, lines 12 through 21, redesignate paragraphs (4) through (7) as paragraphs (5) through (8), respectively.

Page 8, line 20, through page 16, line 1, redesignate sections 7 through 12 as sections 8 through 13, respectively.

Page 8, after line 19, insert the following new section:

1 **SEC. 7. GEOTHERMAL ENERGY PRODUCTION FROM OIL**
2 **AND GAS FIELDS AND RECOVERY AND PRO-**
3 **DUCTION OF GEOPRESSURED GAS RE-**
4 **SOURCES.**

5 (a) IN GENERAL.—The Secretary shall establish a
6 program of research, development, demonstration, and
7 commercial application to support development of geo-
8 thermal energy production from oil and gas fields and pro-
9 duction and recovery of energy from geopressured re-
10 sources. In addition, the Secretary shall conduct such sup-
11 porting activities including research, resource character-
12 ization, and technology development as necessary.

13 (b) GEOTHERMAL ENERGY PRODUCTION FROM OIL
14 AND GAS FIELDS.—The Secretary shall implement a
15 grant program in support of geothermal energy production
16 from oil and gas fields. The program shall include grants
17 for a total of not less than three demonstration projects
18 of the use of geothermal techniques such as organic
19 rankine cycle systems at marginal, unproductive, and pro-
20 ductive oil and gas wells. The Secretary shall, to the extent
21 practicable and in the public interest, make awards that—

22 (1) include not less than five oil or gas well
23 sites per project award;

24 (2) use a range of oil or gas well hot water
25 source temperatures from 150 degrees Fahrenheit to
26 300 degrees Fahrenheit;

1 (3) cover a range of sizes up to one megawatt;

2 (4) are located at a range of sites;

3 (5) can be replicated at a wide range of sites;

4 (6) facilitate identification of optimum tech-
5 niques among competing alternatives;

6 (7) include business commercialization plans
7 that have the potential for production of equipment
8 at high volumes and operation and support at a
9 large number of sites; and

10 (8) satisfy other criteria that the Secretary de-
11 termines are necessary to carry out the program and
12 collect necessary data and information.

13 The Secretary shall give preference to assessments that
14 address multiple elements contained in paragraphs (1)
15 through (8).

16 (c) GRANT AWARDS.—Each grant award for dem-
17 onstration of geothermal technology such as organic
18 rankine cycle systems at oil and gas wells made by the
19 Secretary under subsection (b) shall include—

20 (1) necessary and appropriate site engineering
21 study;

22 (2) detailed economic assessment of site specific
23 conditions;

24 (3) appropriate feasibility studies to determine
25 whether the demonstration can be replicated;

1 (4) design or adaptation of existing technology
2 for site specific circumstances or conditions;

3 (5) installation of equipment, service, and sup-
4 port;

5 (6) operation for a minimum of one year and
6 monitoring for the duration of the demonstration;
7 and

8 (7) validation of technical and economic as-
9 sumptions and documentation of lessons learned.

10 (d) GEOPRESSURED GAS RESOURCE RECOVERY AND
11 PRODUCTION.—(1) The Secretary shall implement a pro-
12 gram to support the research, development, demonstra-
13 tion, and commercial application of cost-effective tech-
14 niques to produce energy from geopressured resources sit-
15 uated in and near the Gulf of Mexico.

16 (2) The Secretary shall solicit preliminary engineer-
17 ing designs for geopressured resources production and re-
18 covery facilities.

19 (3) Based upon a review of the preliminary designs,
20 the Secretary shall award grants, which may be cost-
21 shared, to support the detailed development and comple-
22 tion of engineering, architectural and technical plans need-
23 ed to support construction of new designs.

24 (4) Based upon a review of the final design plans
25 above, the Secretary shall award cost-shared development

1 and construction grants for demonstration geopressured
2 production facilities that show potential for economic re-
3 covery of the heat, kinetic energy and gas resources from
4 geopressured resources.

5 (e) COMPETITIVE GRANT SELECTION.—Not less than
6 90 days after the date of the enactment of this Act, the
7 Secretary shall conduct a national solicitation for applica-
8 tions for grants under the programs outlined in sub-
9 sections (b) and (d). Grant recipients shall be selected on
10 a competitive basis based on criteria in the respective sub-
11 section.

12 (f) WELL DRILLING.—No funds may be used under
13 this section for the purpose of drilling new wells.

Page 8, line 20, strike “**GUIDELINES FOR**”.

Page 8, line 22 through page 10, lines 16, strike
subsections (a) through (c) and insert the following new
subsection:

14 (a) FEDERAL SHARE.—(1) The Federal share of
15 costs of projects funded under this Act shall be in accord-
16 ance with section 988 of the Energy Policy Act of 2005.

17 (2) The Secretary may waive the Federal cost share
18 requirement for grants awarded to universities, national
19 laboratories, or similar noncommercial entities awarded
20 grants under this Act.

1 (3) The Secretary shall allow for a competitive bid-
2 ding process to play a role in determining the final cost-
3 share ratio.

Page 12, line 18, strike “7(d)(7)” and insert
“8(b)(7)”.

Page 13, line 14, strike “7(d)(7)” and insert
“8(b)(7)”.

Page 14, lines 19 and 20, strike “**STUDY ON AD-
VANCED USES OF GEOTHERMAL ENERGY**” and insert
“**REPORTS**”.

Page 14, line 21, insert “(a) STUDY ON ADVANCED
USES OF GEOTHERMAL ENERGY.—” before “Not later
than”.

Page 15, after line 18, insert the following new sub-
section:

4 (b) PROGRESS REPORTS.—(1) Not later than 36
5 months after the date of enactment of this Act, the Sec-
6 retary shall submit to the Committee on Science and Tech-
7 nology of the House of Representatives and the Committee
8 on Energy and Natural Resources of the Senate an in-
9 terim report describing the progress made under this Act.
10 At the end of 60 months, the Secretary shall submit to
11 Congress a report on the results of projects undertaken

1 under this Act and other such information the Secretary
2 considers appropriate.

3 (2) As necessary, the Secretary shall report to the
4 Congress on any legal, regulatory, or other barriers en-
5 countered that hinder economic development of these re-
6 sources, and provide recommendations on legislative or
7 other actions needed to address such impediments.

Page 15, line 12, insert “and” after the semicolon.

Page 15, lines 13 through 15, strike paragraph (6).

Page 15, line 16, redesignate paragraph (7) as para-
graph (6).

Page 16, lines 3 and 4, strike “\$80,000,000 for each
of the fiscal years 2008 through 2012” and insert
“\$90,000,000 for each of the fiscal years 2008 through
2012, of which \$10,000,000 for each fiscal year shall be
for carrying out section 7”.



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AMENDMENT TO H.R. 2304
OFFERED BY Rep. Bartlett (MD)

Page 14, line 19, strike "STUDY" and insert "RE-
PORTS".

Rep. Roscoe Bartlett (MD-6)
Statement on the Amendment
H.R. 2304
Geothermal bill
Changes “study” to “reports”

Page 14, line 19 change

On page 14, line 19 the word “study” is changed to “reports”. The title of section 10 currently reads “Study on Advanced Uses of Geothermal Energy”, but the section contains no studies and instead directs the Secretary to “report” to relevant House Committees on advanced concepts and technologies to maximize the geothermal resource potential of the United States. The section also lays out what the “reports” shall include. The amendment simply makes the title of the section reflect what the section is directing the Secretary to do.



AMENDMENT TO H.R. 2304
OFFERED BY Rep. Bartlett (MD)

Page 14, line 12, strike "GEOPOWER" and insert
"GEOPOWERING".

Page 14, line 16, strike "GeoPower" and insert
"GeoPowering".

Rep. Roscoe Bartlett (MD-6)
Statement on the Amendment
H.R. 2304
Geothermal bill
Change “GeoPower” to “GeoPowering”

Page 14, line 12 and line 16 change

The amendment changes all instances of “GeoPower” to “GeoPowering”. The name of DOE’s program is GeoPowering the West, not GeoPower the West, as it is stated in the bill. The amendment simply corrects this mistake.



AMENDMENT TO H.R. 2304
OFFERED BY Rep. Bartlett (MD)

Page 6, after line 20, insert the following:

- 1 Any potential environmental impacts identified as part of
- 2 the development, production, and use of geothermal en-
- 3 ergy shall be measured and examined against the potential
- 4 emissions offsets of greenhouses gases gained by geo-
- 5 thermal energy development, production, and use.

Rep. Roscoe Bartlett (MD-6)
Statement on the Amendment
H.R. 2304
Geothermal bill
Environmental Pros/Cons

Page 6, after line 20 change

The amendment directs the Secretary in conjunction with EPA to weigh the pros and cons of any environmental impacts of geothermal energy compared to the reduction of GHG emissions as a result of using geothermal energy.

Geothermal energy is a potentially huge source of clean, renewable, domestic base load power. Therefore, any impacts it may have on the environment should be weighed against the fact that it will be reducing the amount of carbon dioxide released into the atmosphere as it reduces the need for power plants that burn fossil fuels.

AMENDMENT TO H.R. 2304
OFFERED BY Mr. McCaul

Page 11, lines 11 through 23, redesignate paragraphs (4) through (7) as paragraphs (5) through (8), respectively.

Page 11, after line 10, insert the following new paragraph:

1 (4) The Secretary shall coordinate with, and
2 where appropriate may provide funds in furtherance
3 of the purposes of this Act to, other Department of
4 Energy research and development programs focused
5 on drilling, subsurface characterization, and other
6 related technologies.

Page 12, line 18, strike “7(d)(7)” and insert
“7(d)(8)”.

Page 13, line 14, strike “7(d)(7)” and insert
“7(d)(8)”.

AMENDMENT TO H.R. 2304

OFFERED BY Mr McCaul

Page 7, line 16, strike “and”.

Page 7, line 18, strike the period and insert “; and”.

Page 7, after line 18, insert the following new sub-paragraph:

1 (G) laser-based drilling technology.

AMENDMENT TO H.R. 2304
OFFERED BY Mrs. Biggert

Page 13, line 21, strike "Mississippi River" and insert "Rocky Mountains".