technologies to maximize the geothermal resource potential of the United States.

(f) Progress reports

Not later than 1 year after December 27, 2020, and every 2 years thereafter, the Secretary shall submit to the Committee on Science and Technology of the House of Representatives and the Committee on Energy and Natural Resources of the Senate a report on the results of projects undertaken under this part and other such information the Secretary considers appropriate.

(Pub. L. 110–140, title VI, § 617, Dec. 19, 2007, 121 Stat. 1682; Pub. L. 116–260, div. Z, title III, § 3002(f)(1), Dec. 27, 2020, 134 Stat. 2493.)

Editorial Notes

REFERENCES IN TEXT

This part, referred to in subsec. (f), probably should be a reference to ''this subtitle'', meaning subtitle B of title VI of Pub. L. 110–140, which is classified to this part.

AMENDMENTS

2020—Pub. L. 116–260, § 3002(f)(1)(A), substituted ''Organization and administration of programs'' for ''Cost sharing and proposal evaluation'' in section catchline.

Subsec. (b)(2) to (4). Pub. L. 116–260, § 3002(f)(1)(B), redesignated pars. (3) and (4) as (2) and (3), respectively, and struck out former par. (2) which read as follows: ''In evaluating proposals, the Secretary shall give priority to proposals that demonstrate clear evidence of employing a systems approach.''

Subsecs. (c) to (f). Pub. L. 116–260, § 3002(f)(1)(C), added subsecs. (c) to (f).

Statutory Notes and Related Subsidiaries

EFFECTIVE DATE

Section effective on the date that is 1 day after Dec. 19, 2007, see section 1601 of Pub. L. 110–140, set out as a note under section 1824 of Title 2, The Congress.

§ 17197. Advanced geothermal computing and data science research and development

(a) In general

The Secretary shall carry out a program of research and development of advanced computing and data science tools for geothermal energy.

(b) Programs

The program authorized in subsection (a) shall include the following:

(1) Advanced computing for geothermal systems technologies

Research, development, and demonstration of technologies to develop advanced data, machine learning, artificial intelligence, and related computing tools to assist in locating geothermal resources, to increase the reliability of site characterization, to increase the rate and efficiency of drilling, to improve induced seismicity mitigation, and to support enhanced geothermal systems technologies.

(2) Geothermal systems reservoir modeling

Research, development, and demonstration of models of geothermal reservoir performance and enhanced geothermal systems reservoir stimulation technologies and techniques, with an emphasis on accurately modeling fluid and heat flow, permeability evolution, geomechanics, geochemistry, seismicity, and operational performance over time, including collaboration with industry and field validation.

(c) Coordination

In carrying out these programs, the Secretary shall ensure coordination and consultation with the Department of Energy's Office of Science. The Secretary shall ensure, to the maximum extent practicable, coordination of these activities with the Department of Energy National Laboratories, institutes of higher education, and the private sector.

(Pub. L. 110–140, title VI, § 618, Dec. 19, 2007, 121 Stat. 1683; Pub. L. 116–260, div. Z, title III, § 3002(g)(1), Dec. 27, 2020, 134 Stat. 2494.)

Editorial Notes

AMENDMENTS

2020—Pub. L. 116–260 amended section generally. Prior to amendment, section related to Center for Geothermal Technology Transfer.

Statutory Notes and Related Subsidiaries

EFFECTIVE DATE

Section effective on the date that is 1 day after Dec. 19, 2007, see section 1601 of Pub. L. 110–140, set out as a note under section 1824 of Title 2, The Congress.

§ 17198. Geothermal workforce development

The Secretary shall support the development of a geothermal energy workforce through a program that—

(1) facilitates collaboration between university students and researchers at the National Laboratories; and

(2) prioritizes science in areas relevant to the mission of the Department through the application of geothermal energy tools and technologies.

(Pub. L. 110–140, title VI, § 619, Dec. 19, 2007, 121 Stat. 1683; Pub. L. 116–260, div. Z, title III, § 3002(h)(1), Dec. 27, 2020, 134 Stat. 2495.)

Editorial Notes

AMENDMENTS

2020—Pub. L. 116–260 amended section generally. Prior to amendment, section read as follows: ''The Secretary shall expand the Department of Energy's GeoPowering the West program to extend its geothermal technology transfer activities throughout the entire United States. The program shall be renamed 'GeoPowering America'. The program shall continue to be based in the Department of Energy office in Golden, Colorado.''

Statutory Notes and Related Subsidiaries

EFFECTIVE DATE

Section effective on the date that is 1 day after Dec. 19, 2007, see section 1601 of Pub. L. 110–140, set out as a note under section 1824 of Title 2, The Congress.

§§ 17199, 17200. Repealed. Pub. L. 116–260, div. Z, title III, § 3002(i)(1), Dec. 27, 2020, 134 Stat. 2495

Section 17199, Pub. L. 110–140, title VI, § 620, Dec. 19, 2007, 121 Stat. 1683, related to educational pilot program.

Section 17200, Pub. L. 110–140, title VI, §621, Dec. 19, 2007, 121 Stat. 1684, related to reports to Congress.

§ 17201. Applicability of other laws

Nothing in this part shall be construed as waiving, modifying, or superseding the applicability of any requirement under any environmental or other Federal or State law. To the extent that activities authorized in this part take place in coastal and ocean areas, the Secretary shall consult with the Secretary of Commerce, acting through the Under Secretary of Commerce for Oceans and Atmosphere, regarding the potential marine environmental impacts and measures to address such impacts.

(Pub. L. 110–140, title VI, §622, Dec. 19, 2007, 121 Stat. 1684.)

Statutory Notes and Related Subsidiaries

EFFECTIVE DATE

Section effective on the date that is 1 day after Dec. 19, 2007, see section 1601 of Pub. L. 110–140, set out as a note under section 1824 of Title 2, The Congress.

§ 17202. Authorization of appropriations

There are authorized to be appropriated to the Secretary to carry out the programs under this part $170,000,000 for each of fiscal years 2021 through 2025.

(Pub. L. 110–140, title VI, §623, Dec. 19, 2007, 121 Stat. 1684; Pub. L. 116–260, div. Z, title III, §3002(j), Dec. 27, 2020, 134 Stat. 2495.)

Editorial Notes

AMENDMENTS

2020—Pub. L. 116–260 amended section generally. Prior to amendment, section related to authorization of appropriations for fiscal years 2008 to 2012.

Statutory Notes and Related Subsidiaries

EFFECTIVE DATE

Section effective on the date that is 1 day after Dec. 19, 2007, see section 1601 of Pub. L. 110–140, set out as a note under section 1824 of Title 2, The Congress.

§ 17203. International geothermal energy development

(a) In general

The Secretary of Energy, in coordination with other appropriate Federal and multilateral agencies (including the United States Agency for International Development) shall support collaborative efforts with international partners to promote the research, development, and demonstration of geothermal technologies used to develop hydrothermal and enhanced geothermal system resources.

(b) United States Trade and Development Agency

The Director of the United States Trade and Development Agency may—

(1) encourage participation by United States firms in actions taken to carry out subsection (a); and

(2) provide grants and other financial support for feasibility and resource assessment studies conducted in, or intended to benefit, less developed countries.

(Pub. L. 110–140, title VI, §624, Dec. 19, 2007, 121 Stat. 1684; Pub. L. 116–260, div. Z, title III, §3002(k), Dec. 27, 2020, 134 Stat. 2495.)

Editorial Notes

AMENDMENTS

2020—Subsec. (a). Pub. L. 116–260, §3002(k)(1), amended subsec. (a) generally. Prior to amendment, text read as follows: ''The Secretary of Energy, in coordination with other appropriate Federal and multilateral agencies (including the United States Agency for International Development) shall support international collaborative efforts to promote the research, development, and deployment of geothermal technologies used to develop hydrothermal and enhanced geothermal system resources, including as partners (as appropriate) the African Rift Geothermal Development Facility, Australia, China, France, the Republic of Iceland, India, Japan, and the United Kingdom.''

Subsec. (c). Pub. L. 116–260, §3002(k)(2), struck out subsec. (c). Text read as follows: ''There are authorized to be appropriated to carry out this section $5,000,000 for each of fiscal years 2008 through 2012.''

Statutory Notes and Related Subsidiaries

EFFECTIVE DATE

Section effective on the date that is 1 day after Dec. 19, 2007, see section 1601 of Pub. L. 110–140, set out as a note under section 1824 of Title 2, The Congress.

§ 17204. High cost region geothermal energy grant program

(a) Definitions

In this section:

(1) Eligible entity

The term ''eligible entity'' means—

(A) a utility;

(B) an electric cooperative;

(C) a State;

(D) a political subdivision of a State;

(E) an Indian tribe; or

(F) a Native corporation.

(2) High-cost region

The term ''high-cost region'' means a region in which the average cost of electrical power or heat exceeds 150 percent of the national average retail cost, as determined by the Secretary.

(b) Program

The Secretary shall use amounts made available to carry out this section to make grants to eligible entities for activities described in subsection (c).

(c) Eligible activities

An eligible entity may use grant funds under this section, with respect to a geothermal energy project in a high-cost region, only—

(1) to conduct a feasibility study, including a study of exploration, geochemical testing, geomagnetic surveys, geologic information gathering, baseline environmental studies, well drilling, resource characterization, permitting, and economic analysis;

(2) for design and engineering costs, relating to the project; and