

**§ 17173. Daylighting systems and direct solar light pipe technology**

**(a) Establishment**

The Secretary shall establish a program of research and development to provide assistance in the demonstration and commercial application of direct solar renewable energy sources to provide alternatives to traditional power generation for lighting and illumination, including light pipe technology, and to promote greater energy conservation and improved efficiency. All direct solar renewable energy devices supported under this program shall have the capability to provide measurable data on the amount of kilowatt-hours saved over the traditionally powered light sources they have replaced.

**(b) Reporting**

The Secretary shall transmit to Congress an annual report assessing the measurable data derived from each project in the direct solar renewable energy sources program and the energy savings resulting from its use.

**(c) Definitions**

For purposes of this section—

(1) the term “direct solar renewable energy” means energy from a device that converts sunlight into useable light within a building, tunnel, or other enclosed structure, replacing artificial light generated by a light fixture and doing so without the conversion of the sunlight into another form of energy; and

(2) the term “light pipe” means a device designed to transport visible solar radiation from its collection point to the interior of a building while excluding interior heat gain in the nonheating season.

**(d) Authorization of appropriations**

There are authorized to be appropriated to the Secretary for carrying out this section \$3,500,000 for each of the fiscal years 2008 through 2012.

(Pub. L. 110–140, title VI, § 605, Dec. 19, 2007, 121 Stat. 1676.)

**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.

**§§ 17174, 17175. Repealed. Pub. L. 116–260, div. Z, title III, § 3006(g)(1), Dec. 27, 2020, 134 Stat. 2513**

Section 17174, Pub. L. 110–140, title VI, § 606, Dec. 19, 2007, 121 Stat. 1676, related to solar air conditioning research and development program.

Section 17175, Pub. L. 110–140, title VI, § 607, Dec. 19, 2007, 121 Stat. 1677, related to photovoltaic demonstration program.

**PART B—GEOTHERMAL ENERGY**

**§ 17191. Definitions**

For purposes of this part:

**(1) Engineered**

When referring to enhanced geothermal systems, the term “engineered” means designed

to access subsurface heat, including stimulation and nonstimulation technologies to address one or more of the following issues:

(A) Lack of effective permeability, porosity or open fracture connectivity within the heat reservoir.

(B) Insufficient contained geofluid in the heat reservoir.

(C) A low average geothermal gradient which necessitates deeper drilling, or the use of alternative heat sources or heat generation processes.

**(2) Eligible entity**

The term “eligible entity” means any of the following entities:

(A) An institution of higher education.

(B) A National laboratory.

(C) A Federal research agency.

(D) A State research agency.

(E) A nonprofit research organization.

(F) An industrial entity.

(G) A consortium of 2 or more entities described in subparagraphs (A) through (F).

**(3) Enhanced geothermal systems**

The term “enhanced geothermal systems” means geothermal reservoir systems that are engineered, as opposed to occurring naturally.

**(4) Geofluid**

The term “geofluid” means any fluid used to extract thermal energy from the Earth which is transported to the surface for direct use or electric power generation, except that such term shall not include oil or natural gas.

**(5) Geopressured resources**

The term “geopressured resources” mean geothermal deposits found in sedimentary rocks under higher than normal pressure and saturated with gas or methane.

**(6) Geothermal**

The term “geothermal” refers to heat energy stored in the Earth’s crust that can be accessed for direct use or electric power generation.

**(7) Hydrothermal**

The term “hydrothermal” refers to naturally occurring subsurface reservoirs of hot water or steam.

**(8) Systems approach**

The term “systems approach” means an approach to solving problems or designing systems that attempts to optimize the performance of the overall system, rather than a particular component of the system.

(Pub. L. 110–140, title VI, § 612, Dec. 19, 2007, 121 Stat. 1679; Pub. L. 116–260, div. Z, title III, § 3002(a), Dec. 27, 2020, 134 Stat. 2487.)

**Editorial Notes**

**AMENDMENTS**

2020—Par. (1). Pub. L. 116–260, § 3002(a), amended par. (1) generally. Prior to amendment, par. (1) defined the term “engineered”.

Pars. (2) to (8). Pub. L. 116–260, § 3002(a)(2), (3), added par. (2) and redesignated former pars. (2) to (7) as (3) to (8), respectively.