

Space, and Technology of House of Representatives by House Resolution No. 5, One Hundred Twelfth Congress, Jan. 5, 2011.

§ 9003. Research and development

(a) Initiation of research

The Secretary shall initiate research or accelerate existing research in areas in which the lack of knowledge limits development of ocean thermal energy conversion systems in order to achieve the purposes of this chapter.

(b) Evaluations, tests, and dissemination of information, data, and materials

The Secretary shall conduct evaluations, arrange for tests, and disseminate to developers information, data, and materials necessary to support the design efforts undertaken pursuant to section 9004 of this title. Specific technical areas to be addressed shall include, but not be limited to—

- (1) interface requirements between the platform and cold water pipe;
- (2) cold water pipe deployment techniques;
- (3) heat exchangers;
- (4) control system simulation;
- (5) stationkeeping requirements; and
- (6) energy delivery systems, such as electric cable or energy product transport.

(c) Consideration of new or improved technologies

The Secretary shall, for the purpose of performing his responsibilities pursuant to this chapter, solicit proposals and evaluate any reasonable new or improved technology, a description of which is submitted to the Secretary in writing, which could lead or contribute to the development of ocean thermal energy conversion system technology.

(Pub. L. 96-310, § 4, July 17, 1980, 94 Stat. 943.)

§ 9004. Pilot and demonstration plants

(a) Initiation of program

The Secretary is authorized to initiate a program to design, construct, and operate well instrumented ocean thermal energy conversion facilities of sufficient size to demonstrate the technical feasibility and potential economic feasibility of utilizing the various forms of ocean thermal energy conversion to displace non-renewable fuels. To achieve the goals of this section and to facilitate development of a strong industrial basis for the application of ocean thermal energy conversion system technology, at least two independent parallel demonstration projects shall be competitively selected.

(b) Demonstration program goals

The specific goals of the demonstration program shall include at a minimum—

- (1) the demonstration of ocean thermal energy conversion technical feasibility through multiple pilot and demonstration plants with a combined capacity of at least one hundred megawatts of electrical capacity or energy product equivalent by the year 1986;
- (2) the delivery of baseload electricity to utilities located on land or the production of commercially attractive quantities of energy product; and

(3) the continuous operation of each pilot and demonstration facility for a sufficient period of time to collect and analyze system performance and reliability data.

(c) Financial assistance

In providing any financial assistance under this section, the Secretary shall (1) give full consideration to those projects which will provide energy to United States offshore States, its territories, and its possessions and (2) seek satisfactory cost-sharing arrangements when he deems such arrangements to be appropriate.

(Pub. L. 96-310, § 5, July 17, 1980, 94 Stat. 943.)

§ 9005. Technology application

(a) Technology application and market development plan

The Secretary shall, in consultation with the Administrator of the National Oceanic and Atmospheric Administration, the Administrator of the Maritime Administration, the Administrator of the National Aeronautics and Space Administration, and the Technical Panel established under section 9007 of this title, prepare a comprehensive technology application and market development plan that will permit realization of the ten-thousand-megawatt national goal by the year 1999. Such plans shall include at a minimum—

(1) an assessment of those Government actions required to achieve a two-hundred- to four-hundred-megawatt electrical-commercial demonstration of ocean thermal energy conversion systems in time to have industry meet the goal contained in section 9001(b)(2) of this title including a listing of those financial, property, and patent right packages most likely to lead to early commercial demonstration at minimum cost to the Federal Government;

(2) an assessment of further Government actions required to permit expansion of the domestic ocean thermal energy conversion industry to meet the goal contained in section 9001(b)(3) of this title;

(3) an analysis of further Government actions necessary to aid the industry in minimizing and removing any legal and institutional barriers such as the designation of a lead agency; and

(4) an assessment of the necessary Government actions to assist in eliminating economic uncertainties through financial incentives, such as loan guarantees, price supports, or other inducements.

(b) Transmittal of plan to Congress

The Secretary shall transmit such comprehensive technology application and market development plan to the Congress within three years after July 17, 1980, and update the plan on an annual basis thereafter.

(c) Respondent proposals

As part of the competitive procurement initiative for design and construction of the pilot and demonstration projects authorized in section 9009(c) of this title, each respondent shall include in its proposal (1) a plan leading to a full-scale, first-of-a-kind facility based on a proposed demonstration system; and (2) the financial and