

these criteria. In establishing criteria for the selection of the Centers, the Secretary shall consult with the Secretary of Commerce, acting through the Under Secretary of Commerce for Oceans and Atmosphere, on the criteria related to ocean waves, tides, and currents including those for advancing wave forecasting technologies, ocean temperature differences, and studying the compatibility of marine renewable energy technologies and systems with the environment, fisheries, and other marine resources.

(b) Purposes

The Centers shall advance research, development, demonstration, and commercial application of marine renewable energy, and shall serve as an information clearinghouse for the marine renewable energy industry, collecting and disseminating information on best practices in all areas related to developing and managing enhanced marine renewable energy systems resources.

(c) Demonstration of need

When applying for a grant under this section, an applicant shall include a description of why Federal support is necessary for the Center, including evidence that the research of the Center will not be conducted in the absence of Federal support.

(Pub. L. 110–140, title VI, § 634, Dec. 19, 2007, 121 Stat. 1687.)

§ 17214. 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.

(Pub. L. 110–140, title VI, § 635, Dec. 19, 2007, 121 Stat. 1688.)

§ 17215. Authorization of appropriations

There are authorized to be appropriated to the Secretary to carry out this part \$50,000,000 for each of the fiscal years 2008 through 2012, except that no funds shall be appropriated under this section for activities that are receiving funds under section 16231(a)(2)(E)(i) of this title.

(Pub. L. 110–140, title VI, § 636, Dec. 19, 2007, 121 Stat. 1688.)

PART D—ENERGY STORAGE FOR
TRANSPORTATION AND ELECTRIC POWER

§ 17231. Energy storage competitiveness

(a) Short title

This section may be cited as the “United States Energy Storage Competitiveness Act of 2007”.

(b) Definitions

In this section:

(1) Council

The term “Council” means the Energy Storage Advisory Council established under subsection (e).

(2) Compressed air energy storage

The term “compressed air energy storage” means, in the case of an electricity grid appli-

cation, the storage of energy through the compression of air.

(3) Electric drive vehicle

The term “electric drive vehicle” means—

(A) a vehicle that uses an electric motor for all or part of the motive power of the vehicle, including battery electric, hybrid electric, plug-in hybrid electric, fuel cell, and plug-in fuel cell vehicles and rail transportation vehicles; or

(B) mobile equipment that uses an electric motor to replace an internal combustion engine for all or part of the work of the equipment.

(4) Islanding

The term “islanding” means a distributed generator or energy storage device continuing to power a location in the absence of electric power from the primary source.

(5) Flywheel

The term “flywheel” means, in the case of an electricity grid application, a device used to store rotational kinetic energy.

(6) Microgrid

The term “microgrid” means an integrated energy system consisting of interconnected loads and distributed energy resources (including generators and energy storage devices), which as an integrated system can operate in parallel with the utility grid or in an intentional islanding mode.

(7) Self-healing grid

The term “self-healing grid” means a grid that is capable of automatically anticipating and responding to power system disturbances (including the isolation of failed sections and components), while optimizing the performance and service of the grid to customers.

(8) Spinning reserve services

The term “spinning reserve services” means a quantity of electric generating capacity in excess of the quantity needed to meet peak electric demand.

(9) Ultracapacitor

The term “ultracapacitor” means an energy storage device that has a power density comparable to a conventional capacitor but is capable of exceeding the energy density of a conventional capacitor by several orders of magnitude.

(c) Program

The Secretary shall carry out a research, development, and demonstration program to support the ability of the United States to remain globally competitive in energy storage systems for electric drive vehicles, stationary applications, and electricity transmission and distribution.

(d) Coordination

In carrying out the activities of this section, the Secretary shall coordinate relevant efforts with appropriate Federal agencies, including the Department of Transportation.