

JAN 23 2014

A BILL FOR AN ACT

RELATING TO ENERGY STORAGE.

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF HAWAII:

1 SECTION 1. Since prior to the establishment of the Hawaii
2 clean energy initiative in 2008 and Hawaii clean energy
3 statutory mandates and policy objectives, the State has been
4 committed to transform Hawaii's energy system into one that uses
5 renewable energy and energy-efficiency technologies for a
6 significant portion of its energy needs. This clean energy
7 transformation will help to stabilize and strengthen Hawaii's
8 economy by reducing its dependency on imported fuels and will
9 help protect Hawaii's environment by greatly reducing greenhouse
10 gas emissions.

11 Similar to the establishment of a renewable energy
12 portfolio standard and an energy-efficiency portfolio standard,
13 an energy storage portfolio standard sets a target of grid-
14 connected energy storage to be achieved in incremental stages,
15 as energy storage programs and technologies can make an
16 increasing contribution to achieving clean energy goals and
17 objectives and can maximize the benefits of clean energy for the
18 people of Hawaii.



1 The purpose of this Act is to maximize cost-effective
2 energy storage programs and technologies by establishing an
3 energy storage portfolio standard to be achieved by electric
4 utilities.

5 SECTION 2. Chapter 269, Hawaii Revised Statutes, is
6 amended by adding a new section to be appropriately designated
7 and to read as follows:

8 "§269- Energy storage portfolio standards. (a) On or
9 before September 1, 2014, the public utilities commission shall
10 open a proceeding to establish energy storage portfolio
11 standards that will facilitate increased use of renewable energy
12 and reductions of fossil fuel consumption in the State, while
13 maintaining reliable and affordable electric service to
14 customers. Nothing in this section shall be construed to
15 prevent or delay the commission from reviewing and acting on
16 electric utility requests to approve energy storage projects
17 before or during the course of the proceeding.

18 (b) For the purpose of energy storage portfolio standards,
19 energy storage shall support the electricity grid, may be
20 centralized or distributed, and shall do one or more of the
21 following when in the best interest of electric customers:



1 (1) Use mechanical, chemical, or thermal processes to
2 store renewable energy that was generated by a grid-
3 connected renewable energy production facility for use
4 on the grid at a later time;

5 (2) Store thermal energy for direct use for heating or
6 cooling at a later time in a manner that avoids the
7 need to use electricity at that later time in a
8 facility that is grid-connected; provided that this
9 shall not include solar water heating;

10 (3) Use mechanical, chemical, or thermal processes to
11 store energy generated from grid-connected resources
12 for use at a later time or to provide ancillary
13 services to the grid; or

14 (4) Notwithstanding anything in this section, for the
15 purpose of energy storage portfolio standards, energy
16 storage may include a system, with or without
17 vehicles, primarily designed for use in
18 transportation, but which is also used to store and
19 transmit energy to and from the electric grid in a
20 manner consistent with paragraphs (1), (2), and (3).

21 (c) The energy storage portfolio standards shall be
22 designed to achieve the State's statutory clean energy goals and



1 increase or maintain electric system reliability and
2 affordability; provided that the commission shall establish
3 interim goals for energy storage to be achieved by 2017, 2022,
4 and 2027, or alternative years as determined by the commission,
5 and may also adjust the energy storage portfolio standards by
6 rule or order to maximize the effectiveness of energy storage
7 programs and technologies that are in the best interests of
8 electric customers and to preserve the electric utilities'
9 flexibility to utilize firm renewable energy as it becomes
10 available.

11 (d) By rule or order, the public utilities commission
12 shall establish penalties for electric utilities for failure to
13 comply with the energy storage portfolio standards and may
14 establish electric utility incentives for performance in
15 achieving or exceeding energy storage portfolio standards.

16 (e) The public utilities commission shall evaluate the
17 energy storage portfolio standards every five years, beginning
18 two years after the first portfolio target year, and may revise
19 the standards, based on the best information available at the
20 time, to determine if the energy storage portfolio standards
21 established by this section remain effective, desirable, and
22 achievable.



1 The commission shall report its findings and revisions to
2 the energy storage portfolio standards, based on its own studies
3 and other information, to the legislature no later than twenty
4 days before the convening of the regular session of 2017, and
5 every five years thereafter."

6 SECTION 3. New statutory material is underscored.

7 SECTION 4. This Act shall take effect upon its approval.

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S.B. NO. 2932

Report Title:

Energy Storage Portfolio Standards; Public Utilities Commission

Description:

Establishes energy storage portfolio standards that will facilitate increased use of renewable energy and reductions of fossil fuel consumption in Hawaii, while maintaining reliable and affordable electric service. Requires the public utilities commission to evaluate the energy storage portfolio standards every five years.

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