
A BILL FOR AN ACT

RELATING TO ENERGY EFFICIENCY.

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

1 PART I

2 SECTION 1. (a) There is established within the department
3 of accounting and general services a building energy efficiency
4 pilot program to set building energy efficiency standards that
5 assist the State in reaching net zero emissions.

6 (b) The department of accounting and general services
7 shall identify one state land site and construct a new state
8 building or remodel an existing state facility to create an
9 innovation center with net zero emissions. The department of
10 accounting and general services shall work with the department
11 of business, economic development, and tourism and the
12 department of transportation to identify a site. The center
13 shall utilize the following building energy efficiency
14 standards:

15 (1) Lighter colored roofing material;



- 1 (2) Windows that use dynamic glass or chromatic glazing
- 2 with the ability to change their performance
- 3 properties;
- 4 (3) Rooftops with space available for the installation of
- 5 photovoltaic or solar thermal panels;
- 6 (4) Sensor-based lighting control systems for lighting
- 7 fixtures located near windows;
- 8 (5) High efficiency heating, ventilation, and air
- 9 conditioning units; and
- 10 (6) Incorporation of natural light.
- 11 (c) In developing, constructing, and maintaining the new
- 12 state building following the guidelines established under
- 13 subsection (b), the department shall conduct an analysis of the
- 14 cost and benefits of adopting the building energy efficiency
- 15 standards, including the fiscal consequences to the State and
- 16 the related cost savings from energy efficiency. The department
- 17 shall include payback periods of investment, taking into account
- 18 the cost savings of the program.
- 19 (d) The department shall submit a report, including any
- 20 proposed legislation, to the legislature no later than twenty



1 days prior to the convening of the regular session of 2020, and
2 shall include the following:

3 (1) Program evaluation metrics, including the details of
4 the analysis conducted pursuant to subsection (c), a
5 financial reporting of the annual costs of
6 administering the pilot program, and any discrete
7 costs necessary for the initial launch of the pilot
8 program;

9 (2) A plan for the adoption of building efficiency
10 standards catered to the industrial organization and
11 structure and energy capacity and structure of the
12 State, with consideration to the building and
13 construction industry's capability for compliance;

14 (3) A plan that integrates the building energy efficiency
15 standards to the State's building codes, including:
16 (A) A statutory analysis and proposed amendments
17 needed to implement the standards statewide; and
18 (B) Any penalties and liabilities as may be necessary
19 to compel compliance by the building and
20 construction industry;



- 1 (4) A study on implementing the pilot program with
- 2 residential units, including research and planning as
- 3 required in paragraphs (1), (2), and (3); and
- 4 (5) A reasonable time period in years in which the State
- 5 will achieve net zero emissions.

6 SECTION 2. There is appropriated out of the general
 7 revenues of the State of Hawaii the sum of \$ or so much
 8 thereof as may be necessary for fiscal year 2017-2018 and the
 9 same sum or so much thereof as may be necessary for fiscal year
 10 2018-2019 to implement the building energy efficiency pilot
 11 program.

12 The sums appropriated shall be expended by the department
 13 of accounting and general services for the purposes of this Act.

14 PART II

15 SECTION 3. Section 107-27, Hawaii Revised Statutes, is
 16 amended to read as follows:

17 "§107-27 Design of state buildings. (a) No later than
 18 one year after the adoption of rules under this chapter, the
 19 design of all state building construction shall be in compliance
 20 with the Hawaii state building codes, except state building
 21 construction shall be allowed to be exempted from:



1 (1) County codes that have not adopted the Hawaii state
2 building codes;

3 (2) Any county code amendments that are inconsistent with
4 the minimum performance objectives of the Hawaii state
5 building codes or the objectives enumerated in this
6 part; or

7 (3) Any county code amendments that are contrary to code
8 amendments adopted by another county.

9 (b) Exemptions shall include county ordinances allowing
10 the exercise of indigenous Hawaiian architecture adopted in
11 accordance with section 46-1.55.

12 (c) For state buildings constructed or renovated on or
13 after July 1, 2020, the design of state buildings shall
14 encourage the use of natural light, and incorporate the use of
15 glass that uses a dynamic glazing system where appropriate.

16 As used in this subsection, "dynamic glazing system" means
17 glazing systems that have the ability to reversibly change their
18 performance properties."

19 PART III

20 SECTION 4. New statutory material is underscored.



1 SECTION 5. This Act shall take effect on July 1, 2050;
2 provided that section 1 shall be repealed on June 30, 2020; and
3 provided further that section 3 of this Act shall take effect on
4 July 1, 2020.



Report Title:

State Building Design; Energy Efficiency; Appropriation

Description:

Requires the Department of Accounting and General Services to conduct a building energy efficiency pilot program. Requires all state buildings built or renovated after July 1, 2020, to incorporate certain energy efficient practices. Appropriates funds. (HB1508 HD1)

The summary description of legislation appearing on this page is for informational purposes only and is not legislation or evidence of legislative intent.

