
A BILL FOR AN ACT

RELATING TO ENERGY.

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

1 **PART I**

2 SECTION 1. The high technology development corporation,
3 with the approval of the governor, is authorized to issue
4 revenue bonds in the sum of \$ or so much thereof as
5 may be necessary and the same sum or so much thereof as may be
6 necessary is appropriated for fiscal year 2017-2018 for the
7 development and construction of an electrolysis hydrogen
8 production, storage, and dispensing facility to be managed by
9 the Hawaii center for advanced transportation technologies.

10 SECTION 2. The revenue bonds authorized pursuant to
11 section 1 of this Act shall be issued in the name of the high
12 technology development corporation and in accordance with part
13 III of chapter 39, Hawaii Revised Statutes.

14 SECTION 3. The sum appropriated shall be expended by the
15 high technology development corporation of the department of
16 business, economic development, and tourism for the purposes of
17 this part.



1 SECTION 4. The authorization to issue revenue bonds under
2 this part shall lapse on June 30, 2022.

3 PART II

4 SECTION 5. (a) There is established within the department
5 of transportation a building energy efficiency demonstration
6 project for building energy efficiency designs that assist the
7 State in reaching net zero emissions.

8 (b) The department of transportation shall identify one
9 state land site and construct a new state building or remodel an
10 existing state facility to create a facility or building with
11 net zero emissions. The department of transportation shall
12 follow the United States Department of Energy's description of a
13 Zero Energy Ready Home, which is a home with a renewable energy
14 system that can offset all or most of its annual energy
15 consumption. The department of transportation shall work with
16 the department of business, economic development, and tourism to
17 identify a site for construction or an appropriate existing
18 state facility for remodeling.

19 (c) In developing, constructing, and maintaining the new
20 state building or remodeled state facility pursuant to the
21 guidelines established under subsection (b), the department of



1 transportation and the department of business, economic
2 development, and tourism shall conduct an analysis of the cost
3 and benefits of adopting the building energy efficiency designs
4 incorporated into the building or facility, including the fiscal
5 consequences to the State and the related cost savings from
6 energy efficiency. The department of transportation shall
7 include payback periods of investment, taking into account the
8 cost savings of the program. Building energy efficiency designs
9 shall include but not be limited to the following when
10 applicable:

- 11 (1) Lighter colored roofing material;
 - 12 (2) Windows that use dynamic or electro chromatic glazing
13 with the ability to change performance properties;
 - 14 (3) Sensor-based lighting control systems;
 - 15 (4) High efficiency ventilation or air conditioning units;
 - 16 (5) Incorporation of natural light;
 - 17 (6) Renewable energy systems; and
 - 18 (7) Waste to energy conversion systems.
- 19 (d) The department of transportation shall submit a report
20 to the legislature of the analysis conducted pursuant to



1 subsection (c) no later than twenty days prior to the convening
2 of the regular session of 2020.

3 SECTION 6. There is appropriated out of the general
4 revenues of the State the sum of \$ or so much thereof
5 as may be necessary for fiscal year 2017-2018 and the same sum
6 or so much thereof as may be necessary for fiscal year 2018-2019
7 to implement the building energy efficiency demonstration
8 project.

9 The sums appropriated shall be expended by the department
10 of transportation for the purposes of this part.

11 PART III

12 SECTION 7. Section 107-27, Hawaii Revised Statutes, is
13 amended to read as follows:

14 "§107-27 Design of state buildings. (a) No later than
15 one year after the adoption of rules under this chapter, the
16 design of all state building construction shall be in compliance
17 with the Hawaii state building codes, except state building
18 construction shall be allowed to be exempted from:

- 19 (1) County codes that have not adopted the Hawaii state
20 building codes;



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

5 (3) Any county code amendments that are contrary to code
6 amendments adopted by another county.

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

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

14 As used in this subsection, "dynamic glazing system" means
15 a glazing system that has the ability to reversibly change its
16 performance properties."

17 PART IV

18 SECTION 8. New statutory material is underscored.

19 SECTION 9. This Act shall take effect on July 1, 2050;
20 provided that section 5 shall be repealed on June 30, 2020;



1 provided further that section 7 of this Act shall take effect on
2 July 1, 2020.
3



Report Title:

Alternative Fuels; Hydrogen Fuel Station; Revenue Bonds; State Building Design; Energy Efficiency; Appropriation

Description:

Authorizes the issuance of revenue bonds pursuant to part III of chapter 39, HRS, and appropriates funds to the high technology development corporation for the purpose of constructing an electrolysis hydrogen production, storage, and dispensing facility to be managed by the Hawaii center for advanced transportation technologies. Appropriates funds. Establishes a demonstration project for building energy efficiency designs within the department of transportation until 6/30/2020. Requires all state buildings built or renovated after July 1, 2020, to incorporate certain energy efficient practices. Appropriates funds. Effective 7/1/2050. (SD1)

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