
A BILL FOR AN ACT

RELATING TO PHOTOVOLTAIC SOLAR AIR CONDITIONING IN PUBLIC
SCHOOLS.

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

1 SECTION 1. The legislature finds that a significant number
2 of public school students in Hawaii must learn and study in very
3 hot classrooms. A recent *Hawaii Tribune-Herald* article reported
4 that heat in classrooms causes students to feel distracted and
5 lazy rather than focused and motivated to learn. In addition,
6 heat exhaustion is becoming increasingly prevalent and taking a
7 toll on students and teachers alike.

8 Air conditioning in Hawaii's public schools is becoming a
9 necessity for students to learn and enjoy their time in school,
10 with their minds focused on education and not distracted by the
11 heat. According to a research paper by P.A. Hancock, an
12 immediate exposure to extreme heat resulted in an initial
13 stimulating effect on perpetual efficiency; relatively mild
14 thermal manipulations resulted in diminished performance; and
15 under uncomfortably hot conditions, even highly motivated
16 subjects were unable to maintain performance efficiency.



1 Hawaii's renewable portfolio standard goal of one hundred
2 per cent renewable energy by 2045 and the focus on net-zero
3 energy use form part of a sustainable future in a world
4 threatened by climate change. Hawaii can be on the cutting edge
5 of this movement, and the State and public schools should
6 reflect a commitment to these aims by requiring the installation
7 of photovoltaic solar air conditioning in all new public school
8 facilities.

9 The purpose of this Act is to provide a more comfortable
10 environment for public school students and teachers and to help
11 Hawaii achieve its renewable energy goals by requiring the
12 department of education to install photovoltaic solar air
13 conditioning in all new public school facilities.

14 SECTION 2. Chapter 302A, Hawaii Revised Statutes, is
15 amended by adding a new section to subpart A of Part VI to be
16 appropriately designated and to read as follows:

17 "§302A- Photovoltaic solar air conditioning in new
18 public school facilities. (a) The department shall install
19 photovoltaic solar air conditioning in all new public school
20 facilities.



1 (b) The department shall adopt rules pursuant to chapter
2 91 to develop appropriate standards to effectuate this section.

3 (c) No later than twenty days prior to the convening of
4 each regular session, the department shall submit a report to
5 the legislature regarding the installation of photovoltaic solar
6 air conditioning in all new public school facilities, including
7 the status and costs of the installations.

8 (d) As used in this section, "public school facilities"
9 means facilities owned or operated by the department, or the
10 facilities included in the department of education capital
11 budget or capital facilities plan."

12 SECTION 3. There is appropriated out of the general
13 revenues of the State of Hawaii the sum of \$ or so much
14 thereof as may be necessary for fiscal year 2017-2018 and the
15 same sum or so much thereof as may be necessary for fiscal year
16 2018-2019 to install photovoltaic solar air conditioning in all
17 new public school facilities as required by this Act.

18 The sums appropriated shall be expended by the department
19 of education for the purposes of this Act.



1 SECTION 4. New statutory material is underscored.
 2 SECTION 5. This Act shall take effect on July 1, 2017.
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INTRODUCED BY:

Carl I. [unclear]

[unclear]
[unclear]
[unclear]
Richard [unclear]
Lynn DeCoita
 JAN 20 2017



H.B. NO. 448

Report Title:

Department of Education; New Public School Facilities;
Photovoltaic Solar Air Conditioning; Appropriation

Description:

Requires the Department of Education to install photovoltaic solar air conditioning in all new public school facilities.
Makes an appropriation.

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