



EXECUTIVE CHAMBERS  
HONOLULU

DAVID Y. IGE  
GOVERNOR

July 11, 2017

**GOV. MSG. NO. 1299**

The Honorable Ronald D. Kouchi,  
President  
and Members of the Senate  
Twenty-Ninth State Legislature  
State Capitol, Room 409  
Honolulu, Hawai'i 96813

The Honorable Scott K. Saiki,  
Speaker and Members of the  
House of Representatives  
Twenty-Ninth State Legislature  
State Capitol, Room 431  
Honolulu, Hawai'i 96813

Dear President Kouchi, Speaker Saiki, and Members of the Legislature:

This is to inform you that on July 11, 2017, the following bill was signed into law:

HB427 HD2 SD1 CD1

RELATING TO DARK NIGHT SKIES  
PROTECTION  
**ACT 185 (17)**

Sincerely,

DAVID Y. IGE  
Governor, State of Hawai'i

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# A BILL FOR AN ACT

RELATING TO DARK NIGHT SKIES PROTECTION.

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

1           SECTION 1. The legislature finds that dark night skies  
2 hold important cultural, scientific, astronomical, natural,  
3 landscape, and tourism related value. Light pollution caused by  
4 the excessive, misdirected, or obtrusive use of artificial light  
5 has become a worldwide problem, and is now posing significant  
6 challenges for the State. The inappropriate use of lighting at  
7 night includes over-illumination, with the excessive use of  
8 artificial light, use of fixtures that direct light upward that  
9 causes glare and sky glow, and use of fixtures that have  
10 excessive amounts of blue light.

11           Light pollution is a statewide issue because light travels  
12 far distances. For example, the western part of Molokai has a  
13 much brighter night sky than the eastern part because of the sky  
14 glow from Oahu; and the sky glow from Oahu is easily visible  
15 from Haleakala and interferes with astronomical observations in  
16 the western part of the sky.

17           Light at night interferes with various species of animals,  
18 including threatened and endangered birds and turtles. The



1 historical use of poorly designed light fixtures has required  
2 very costly retrofits to reduce the impact on these species.  
3 Light at night, particularly blue light, also interferes with  
4 circadian rhythms, including those in humans. The World Health  
5 Organization has listed "shift work" that involves circadian  
6 disruption as a probable carcinogen. Research suggests that  
7 light intrusion, even if dim, is likely to have measurable  
8 effects on sleep disruption and melatonin suppression. Even if  
9 these effects may be relatively small from night to night,  
10 continuous chronic circadian sleep and hormonal disruption may  
11 have longer-term health risks.

12 Another consideration concerning night light is the cost  
13 involved. Nighttime illumination of state highways, harbors,  
14 airports, and other facilities is costly and consumes large  
15 amounts of energy. Application of new lighting technologies may  
16 produce substantial energy and cost savings.

17 The legislature further finds that the preservation of the  
18 State's dark night skies is essential to the State's well-being  
19 and that the State needs a statewide coordinated strategy to  
20 address this issue.



1           The purpose of this Act is to preserve dark night skies in  
2 Hawaii by establishing a dark night skies protection advisory  
3 committee.

4           SECTION 2. (a) There is established the dark night skies  
5 protection advisory committee to assist the University of Hawaii  
6 in developing a statewide dark night skies protection strategy.  
7 The advisory committee shall be placed within the University of  
8 Hawaii for administrative purposes.

9           (b) The members of the advisory committee shall consist of  
10 the following thirteen persons or their designees:

- 11           (1) The president of the University of Hawaii;
- 12           (2) The comptroller;
- 13           (3) The director of business, economic development, and  
14           tourism;
- 15           (4) The director of health;
- 16           (5) The director of transportation;
- 17           (6) The chairperson of the board of land and natural  
18           resources;
- 19           (7) The mayor of each county;
- 20           (8) The administrator of the Office of Hawaiian Affairs;



1 (9) The director of the University of Hawaii institute for  
2 astronomy; and

3 (10) A representative of the University of Hawaii at Hilo.  
4 The president of the University of Hawaii shall designate a  
5 chairperson from among the members of the advisory committee.

6 (c) The chairperson of the advisory committee may invite  
7 interested parties to advise the advisory committee, including:

8 (1) A representative from the United States Fish and  
9 Wildlife Service;

10 (2) A representative from the United States military, to  
11 be appointed by the Commander of the United States  
12 Pacific Command;

13 (3) A representative from the Federal Aviation  
14 Administration;

15 (4) A representative from the United States Coast Guard;

16 (5) A representative from the Federal Highway  
17 Administration;

18 (6) A representative from the Occupational Safety and  
19 Health Administration;

20 (7) A member of the Hawaiian Astronomical Society; and

21 (8) A lighting engineer.



- 1 (d) In developing the dark night skies protection  
2 strategy, the advisory committee shall consider and evaluate  
3 issues that include:
- 4 (1) Reduction of light pollution in the State;
  - 5 (2) Methods to conserve energy;
  - 6 (3) Cultural, scientific, astronomical, natural, tourism,  
7 and landscape related values associated with dark  
8 night skies;
  - 9 (4) Protection of threatened and endangered species that  
10 are affected by artificial light;
  - 11 (5) Impacts of light pollution on astronomical  
12 observations from Mauna Kea, Mauna Loa, and Haleakala;
  - 13 (6) Educational uses of the dark night sky by K-12 and  
14 higher education students;
  - 15 (7) Establishment of dark night sky parks, which are  
16 designated locations that have special protections for  
17 the night sky and are locations where residents and  
18 visitors can view the night sky with minimal  
19 interference from artificial light;
  - 20 (8) Statewide monitoring of light pollution to monitor  
21 light pollution levels and long-term trends;



1 (9) Public safety issues related to the reduction in  
2 artificial light; and

3 (10) Any additional considerations that the advisory  
4 committee believes will help to protect dark night  
5 skies in the State.

6 (e) In conjunction with developing the statewide dark  
7 night skies protection strategy, the advisory committee shall  
8 consult with the United States Fish and Wildlife Service.

9 (f) Members of the advisory committee shall not be  
10 compensated but shall be reimbursed by their respective  
11 organization for necessary expenses incurred, including travel  
12 expenses, in carrying out their duties. The University of  
13 Hawaii shall provide all necessary administrative, professional,  
14 technical, and clerical support required by the advisory  
15 committee.

16 (g) As used in this Act, "advisory committee" means the  
17 dark night skies protection advisory committee.

18 (h) The advisory committee shall be dissolved on June 30,  
19 2027.

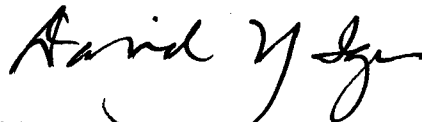
20 SECTION 3. The University of Hawaii shall report its  
21 initial findings and recommendations, including any proposed



1 legislation, to the legislature no later than twenty days prior  
2 to the convening of the regular session of 2018. The advisory  
3 committee shall report its updated findings and recommendations,  
4 including any proposed legislation, to the legislature no later  
5 than twenty days prior to the convening of each regular session  
6 of 2019, 2020, and 2021.

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

APPROVED this 11 day of JUL , 2017



GOVERNOR OF THE STATE OF HAWAII



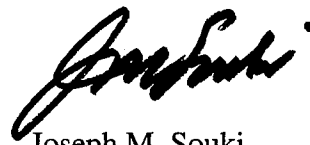


HB No. 427, HD 2, SD 1, CD 1

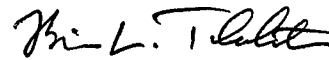
THE HOUSE OF REPRESENTATIVES OF THE STATE OF HAWAII

Date: May 2, 2017  
Honolulu, Hawaii

We hereby certify that the above-referenced Bill on this day passed Final Reading in the House of Representatives of the Twenty-Ninth Legislature of the State of Hawaii, Regular Session of 2017.



Joseph M. Souki  
Speaker  
House of Representatives

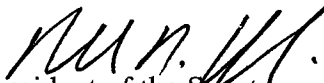



Brian L. Takeshita  
Chief Clerk  
House of Representatives

**THE SENATE OF THE STATE OF HAWAII**

Date: May 2, 2017  
Honolulu, Hawaii 96813

We hereby certify that the foregoing Bill this day passed Final Reading in the Senate of the Twenty-ninth Legislature of the State of Hawaii, Regular Session of 2017.

  
President of the Senate

  
Clerk of the Senate