
A BILL FOR AN ACT

RELATING TO CLIMATE CHANGE.

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

1 SECTION 1. The legislature finds that due to climate
2 change, Hawaii has seen over one-half foot of sea level rise in
3 recent decades, and the rate of sea level rise is quickly
4 accelerating. Data shows that Honolulu is expected to begin
5 seeing regular flooding of the urban core in as little as
6 fifteen years. Climate change and warming seas are also causing
7 Hawaii to see more hurricanes of increasing intensity than ever
8 before. A direct hit on Honolulu is expected to mean a loss of
9 \$40,000,000,000 to Hawaii's infrastructure and economy. The
10 loss of coastal property and infrastructure, increased cost for
11 storm damage and insurance, and loss of life are inevitable if
12 nothing is done, which will add a significant burden to local
13 taxpayers, the State's economy, and way of life.

14 In 2012, storm surge flooding during Hurricane Sandy led to
15 \$19,000,000,000 in losses to New York City, which prompted New
16 York City to begin planning for a comprehensive shoreline
17 protection pilot project to prevent future flooding. The plan



1 will allow shoreline neighborhoods to expand park space,
2 redevelop the urban landscape, and add amenities to enrich their
3 communities. Most of all, it will provide critical sea level
4 rise and flood protection from storm events which will reduce
5 disaster cost to taxpayers, reduce risk to the city, and save
6 lives in the event of disaster.

7 The legislature further finds that many coastal communities
8 in Hawaii are equally exposed. It is only a matter of time
9 before significant disasters impact Hawaii's shoreline
10 communities, and as sea level rise continues accelerating, the
11 potential impact of disasters grows more severe. As a result,
12 it is prudent and urgent to begin planning for change.

13 The most challenging shoreline to protect will be urban
14 Honolulu, and a comprehensive plan to protect urban shorelines
15 will likely take over a decade to develop and implement with
16 input and support from shoreline communities. Therefore, the
17 time to begin is now.

18 The legislature further finds that rising groundwater
19 levels due to coastal flooding and sea level rise will cause
20 inevitable inland inundation. Raising street levels in many
21 inland areas will be required in the future. However, beginning



1 with a comprehensive shoreline climate protection pilot project
2 will first create a shoreline buffer and reduce the risk of
3 coastal disaster events, behind which other projects to address
4 inland inundation can follow in the future.

5 A comprehensive shoreline protection pilot project can
6 serve as a model for new ways to engage neighborhoods and allow
7 residents opportunities to expand park space, redevelop the
8 urban landscape, and add amenities to enrich their communities.
9 Most importantly, it will reduce risk and cost to taxpayers and
10 property owners, and in the inevitable event of disaster, save
11 lives.

12 Accordingly, the purpose of this Act is to establish a
13 Honolulu shoreline climate protection pilot project to develop a
14 plan to protect urban Honolulu from the impacts of climate
15 change and be used as a model for the entire State.

16 SECTION 2. (a) There is established the Honolulu
17 shoreline climate protection pilot project within the Hawaii
18 climate change mitigation and adaption commission.

19 (b) The Hawaii climate change mitigation and adaptation
20 commission shall plan a system of coastal protection for the sea
21 level rise exposure area maps, as officially adopted by the



1 Hawaii climate change mitigation and adaptation commission, of
2 urban Honolulu between the Daniel K. Inouye International
3 Airport and Diamond Head state monument. The design shall
4 designate in the sea level rise exposure area maps, as
5 officially adopted by the Hawaii climate change mitigation and
6 adaptation commission, of urban Honolulu different protection
7 compartments. Each protection compartment shall:

- 8 (1) Provide a physically separate flood-protection zone,
9 isolated from flooding in the other compartments;
- 10 (2) Provide opportunities for integrated social and
11 community planning processes;
- 12 (3) Be connected by a continuous shoreline pathway which
13 may be used for emergency access along the length of
14 the shoreline;
- 15 (4) Be built into shoreline parks and the urban landscape;
- 16 (5) Be tailored to respond to individual neighborhood
17 topography; and
- 18 (6) Be capable of self-reliance in the event that the
19 compartment becomes isolated from another due to
20 climate change.



1 (c) The Hawaii climate change mitigation and adaptation
2 commission shall partner with the city and county of Honolulu
3 office of climate change, sustainability and resiliency in
4 development of the design.

5 (d) The Hawaii climate change mitigation and adaption
6 commission shall submit a report to the legislature on the
7 status of the development of the Honolulu shoreline climate
8 protection pilot project, including any findings and
9 recommendations, no later than twenty days prior to the
10 convening of the regular sessions of 2020 and 2021. The Hawaii
11 climate change mitigation and adaptation commission shall submit
12 a final report to the legislature on the Honolulu shoreline
13 climate protection pilot project, including its findings,
14 recommendations, and proposed legislation, no later than twenty
15 days prior to the convening of the regular session of 2022.

16 SECTION 3. There is appropriated out of the general
17 revenues of the State of Hawaii the sum of \$2,000,000 or so much
18 thereof as may be necessary for fiscal year 2019-2020 and the
19 same sum or so much thereof as may be necessary for fiscal year
20 2020-2021 for the development of the Honolulu shoreline climate
21 protection pilot project; provided that no funds shall be



1 released unless one-half of the sum appropriated is matched by
2 the city and county of Honolulu.

3 The sums appropriated shall be expended by the department
4 of land and natural resources for the purposes of this Act.

5 SECTION 4. This Act shall take effect on July 1, 2019, and
6 shall be repealed on June 30, 2022.



Report Title:

Climate Change; Shoreline Climate Protection Pilot Project;
Appropriation

Description:

Establishes the Honolulu shoreline climate protection pilot project to develop a plan to protect urban Honolulu from the impacts of sea level rise, floodwater, storms, and other impacts of a rapidly changing climate. Repeals on 6/30/2022. Appropriates funds. (SD1)

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