
A BILL FOR AN ACT

RELATING TO WATER RECLAMATION.

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

1 SECTION 1. The legislature finds that as an island state,
2 Hawaii has limited access to natural fresh water supplies. Amid
3 increasing population and development, sustainable access to
4 fresh water is key to the State's future, and innovative water
5 conservation options need to be explored.

6 The process of water scalping involves the extraction of
7 valuable, usable water from a sewerage network. By treating
8 this extracted water to achieve varying degrees of water safety
9 and quality, otherwise unused and wasted water is able to be
10 reclaimed and put to beneficial uses, such as outdoor irrigation
11 of golf courses, parks, and landscaped areas, and various other
12 potable, non-potable, and indirect-potable uses. This
13 decentralized method of water treatment and conservation has
14 already been successfully implemented in several Australian
15 cities and is being explored as an option in several areas of
16 the United States, including California, Arizona, and
17 Washington.



1 The purpose of this Act is to explore the sustainability
2 and conservation potential of water scalping in Hawaii by:

- 3 (1) Conducting a feasibility study on the use of water
4 scalping technology in state facilities; and
- 5 (2) Creating a water scalping pilot project to implement
6 water scalping technology in new and existing state
7 facilities.

8 SECTION 2. (a) The department of accounting and general
9 services shall conduct a feasibility study on the use of water
10 scalping technology in state facilities. In conducting the
11 feasibility study, the department of accounting and general
12 services shall coordinate with the department of health and
13 agencies from each county with jurisdiction over wastewater
14 management.

15 (b) The feasibility study shall include an analysis of the
16 following:

- 17 (1) Potential benefit to the State from the widespread
18 adoption of water scalping technology;
- 19 (2) Compatibility of water scalping technology with
20 existing state infrastructure;
- 21 (3) Cost projections to:

1 (A) Upgrade existing facilities to incorporate water
2 scalping technology; and

3 (B) Incorporate water scalping technology in new
4 construction plans for state facilities; and

5 (4) Incentives for private industry to utilize water
6 scalping technology in ways that benefit the State.

7 (c) The department of accounting and general services
8 shall submit to the legislature a report of findings and
9 recommendations no later than twenty days prior to the convening
10 of the regular session of 2017. The report shall include
11 findings and recommendations on:

12 (1) Specific facilities or areas where water scalping
13 technology should be deployed;

14 (2) The net benefit, given cost considerations, of
15 mandating the use of water scalping technology in
16 state facilities;

17 (3) Cost and practicability for the widespread deployment
18 of water scalping throughout the State, including
19 public acceptance of the technology; and



1 (4) Requests for data and recommendations for areas of
2 inquiry or investigation within the pilot project
3 implemented pursuant to section 3 of this Act.

4 SECTION 3. (a) The department of accounting and general
5 services shall implement a four-year water scalping pilot
6 project in conjunction with the department of health and
7 agencies from each county that have jurisdiction over wastewater
8 management.

9 (b) The pilot project shall:

- 10 (1) Develop criteria for implementing water scalping
11 technology in existing state facilities; and
- 12 (2) Facilitate the installation and operation of water
13 scalping technology in designated state facilities.

14 The water scalping pilot project shall end on June 30,
15 2019.

16 (c) The water scalping pilot project shall submit:

- 17 (1) A progress report of the criteria established and
18 technology operated under subsection (b), including
19 the project's observed and projected impact on water
20 conservation and wastewater management, to the



1 legislature no later than twenty days prior to the
2 convening of the regular session of 2017; and

3 (2) A final report on the operations and findings of the
4 pilot project, including any recommendations for
5 legislation, no later than twenty days prior to the
6 convening of the regular session of 2020.

7 SECTION 4. There is appropriated out of the general
8 revenues of the State of Hawaii the sum of \$ or so
9 much thereof as may be necessary for fiscal year 2015-2016 and
10 the same sum or so much thereof as may be necessary for fiscal
11 year 2016-2017 to implement the pilot project established in
12 section 3 of this Act.

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

15 SECTION 5. This Act shall take effect on July 1, 2050.

16



Report Title:

Water Scalping; Sewer Mining; Pilot Project; Feasibility Study; Appropriation

Description:

Requires and appropriates funds to the department of accounting and general services to establish a water scalping feasibility study and four-year pilot project. Effective 7/1/2050. (SD1)

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