
A BILL FOR AN ACT

RELATING TO ECONOMIC DEVELOPMENT.

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

1 SECTION 1. The legislature finds that in the coming years,
2 it will be crucial for the United States and its allies to
3 establish sustainable and affordable new energy sources.
4 Nowhere is this need more pressing than in Hawaii and throughout
5 the Pacific Basin. The economy of the State and vital United
6 States emergency and security operations across the region
7 depend upon identifying, developing, demonstrating, and
8 validating sustainable and affordable alternative sources of
9 energy. Hawaii currently imports more than ninety per cent of
10 the State's energy in the form of fossil fuels, at tremendous
11 cost to Hawaii's economy. Although there exist green energy
12 technologies, such as conventional photovoltaic arrays and
13 traditional biomass fuels, these technologies alone are
14 incapable of meeting Hawaii's energy challenges.

15 The legislature finds that new technologies have emerged
16 during the past decade that may be used to make Hawaii energy
17 independent within a generation. These technologies include new
18 solutions in space, such as space solar power and solar energy.



1 system management satellites, and ground-based systems, such as
2 integrated solar energy systems, solar-augmented synthetic
3 fuels, and "brilliant grids" for power distribution.

4 The legislature finds that identifying and making
5 significant new investments in sustainable and affordable energy
6 solutions will be a priority for the United States and many
7 other countries during the next several years. Hawaii has
8 already established a leadership position in the development and
9 demonstration of key new technologies, for example, through the
10 success of a recent international demonstration of wireless
11 solar power transmission technologies between the islands of
12 Maui and Hawaii. The legislature further finds that Hawaii has
13 a strong foundation of innovative small businesses and robust
14 educational institutions, as well as the presence of major
15 international industries across the State. Accordingly, the
16 legislature finds that a focused new initiative is needed to
17 establish Hawaii as one of the principal leaders in research,
18 commercialization, and application of new ground-based and
19 space-based energy technologies.

20 The purpose of this Act is to create an energy initiative
21 that will:



- 1 (1) Lead the development and demonstration of
2 transformational new energy technologies, including
3 both space and terrestrial solar energy solutions;
- 4 (2) Demonstrate that Hawaii is a leader in renewable
5 energy development;
- 6 (3) Implement a portfolio of visionary short-term and
7 long-term energy solutions;
- 8 (4) Create profitable high-quality new business
9 opportunities for innovative technology start-up firms
10 in Hawaii;
- 11 (5) Establish Hawaii as a world-class leader in
12 sustainable energy education, research, development,
13 demonstrations, manufacturing, and operations; and
- 14 (6) Enable Hawaii to achieve energy self-sufficiency
15 within a generation, setting an example for the rest
16 of the world.

17 SECTION 2. (a) The energy resources coordinator shall
18 establish a government-industry consortium which shall:

- 19 (1) Establish Sustainable Energy Innovation, LLC, to
20 leverage the systems expertise of the various
21 universities and aerospace industries located in
22 Hawaii;



- 1 (2) Seek federal and private industry funding for
2 renewable energy technology research;
- 3 (3) Develop and demonstrate advanced energy technology
4 projects and testing in Hawaii, including space solar
5 power prototypes, integrated solar energy systems, and
6 green fuel generation, beginning with integrated
7 ground-based testing of the first prototype solar
8 power satellite;
- 9 (4) Provide funding for qualified small business ventures
10 to work on projects in partnership with the University
11 of Hawaii and other universities, corporations, and
12 the international community to rapidly establish
13 renewable energy technologies and businesses; and
- 14 (5) Assist the University of Hawaii to develop new
15 curricula for advanced sustainable energy economics
16 and systems and to lead the education of the next
17 generation of researchers, engineers, and technicians.
- 18 (b) The energy resources coordinator shall seek
19 participation in the government-industry consortium from:
- 20 (1) The department of business, economic development, and
21 tourism;
- 22 (2) The University of Hawaii;



1 (3) Managed Energy Technologies, LLC;

2 (4) Federal agencies, including but not limited to the
3 Department of Energy, National Science Foundation,
4 National Aeronautics and Space Administration, Office
5 of Naval Research, and Defense Advanced Research
6 Projects Agency; and

7 (5) National and international energy experts, such as the
8 Boeing Company, Lockheed Martin Corporation, ENTECH,
9 Inc., Battelle Memorial Institute, Kobe University,
10 Mitsubishi Trading Company, Auburn University, and
11 Texas A&M University.

12 (c) The energy resources coordinator shall submit an
13 annual report of the findings and progress of the government-
14 industry consortium to the legislature no later than twenty days
15 prior to the convening of each regular session.

16 SECTION 3. There is appropriated out of the general
17 revenues of the State of Hawaii the sum of \$1,000,000 or so much
18 thereof as may be necessary for fiscal year 2011-2012 and
19 \$2,000,000 or so much thereof as may be necessary for fiscal
20 year 2012-2013 for the organization and operations of the
21 government-industry consortium pursuant to section 2 of this
22 Act.



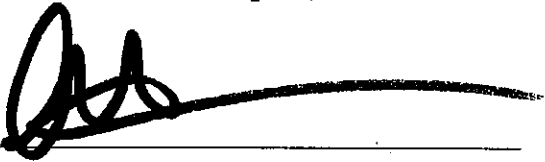
H.B. NO. 103

1 The sums appropriated shall be expended by the department
2 of business, economic development, and tourism for the purposes
3 of this Act.

4 SECTION 4. This Act shall take effect on July 1, 2011.

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INTRODUCED BY:



Lindalchizame
JTP

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JAN 20 2011



Report Title:

Energy Independence; Government-Industry Consortium

Description:

Directs the energy resources coordinator to establish a government-industry consortium for funding, research, and development of renewable energy resources.

The summary description of legislation appearing on this page is for informational purposes only and is not legislation or evidence of legislative intent.

