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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. Nowhere is this need more pressing than in Hawaii and throughout 4 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 independent within a generation. These technologies include new 17

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.
- 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-based start-up
10		firms 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	SECT	ION 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		<pre>power satellite;</pre>
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	participa	tion in the government-industry consortium from:
20	(1)	The department of business, economic development, and
21		tourism;

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The University of Hawaii;

(2)

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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 re	port 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	SECT	ION 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 a	s may be necessary for fiscal year 2009-2010 and
19	\$2,000,00	0 or so much thereof as may be necessary for fiscal
20	year 2010	-2011 for the organization and operations of the
21	governmen	t-industry consortium pursuant to section 2 of this

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Act.

- 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, 2009.

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.

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