

JAN 28 2009

S.B. NO. 1231

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# A BILL FOR AN ACT

RELATING TO RENEWABLE ENERGY.

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

1           SECTION 1. The legislature has long found that the use of  
2 Hawaii's natural resources in the production of renewable energy  
3 is a much valued and sought after goal. However, as plentiful  
4 as the natural resources are locally, in many cases, the  
5 technology is far afield and must be imported into the State.  
6 The Hawaii County Economic Opportunity Council has an agreement  
7 with Aggregate Energy, LLC of Idaho for the development of a  
8 pilot project on the island of Hawaii to convert biomass and  
9 methane gases found in landfills into synthetic liquid  
10 transportation fuel and electricity. The technology held by  
11 Aggregate Energy, LLC was developed in Germany and must be  
12 imported into the United States.

13           In this pilot project, biomass is placed in sealed plastic  
14 cubes and is cultured to produce significant volumes of gas  
15 containing methane and carbon dioxide. This combination of  
16 gases is then converted into a syngas containing concentrated  
17 levels of hydrogen in a chemical reactor using advanced patented  
18 technology. The syngas, in turn, is then converted into liquid



1 synthetic fuel in a modified gas to liquid converter or can be  
2 converted into electricity.

3 The Hawaii Economic Opportunity Council requires seed  
4 funding in the amount of \$580,000 for the purchase of the pilot  
5 plant and the relocation and reassembly of the plant on the  
6 island of Hawaii. With successful field testing, the pilot  
7 project can be expanded into a commercial venture for private  
8 investors.

9 SECTION 2. There is appropriated out of the general  
10 revenues of the State of Hawaii the sum of \$ or so  
11 much thereof as may be necessary for fiscal year 2009-2010 for  
12 establishment of a pilot biomass conversion plant on the island  
13 of Hawaii to convert biomass and methane gases in landfills into  
14 liquid transportation fuel and electricity.

15 The sum appropriated shall be expended by the department of  
16 business, economic development, and tourism for the purposes of  
17 this Act.

18 SECTION 3. This Act shall take effect on July 1, 2009.  
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INTRODUCED BY: Bunsees. Kohb

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**Report Title:**

Renewable Energy; Biomass; Appropriation

**Description:**

Makes an appropriation for the relocation and establishment of a pilot plant for the conversion of biomass into liquid transportation fuel and electricity.

