A BILL FOR AN ACT

RELATING TO RENEWABLE ENERGY TECHNOLOGIES.

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

- 1 SECTION 1. Act 240, Session Laws of Hawaii 2006, is
- 2 amended by amending section 1 to read as follows:
- 3 "SECTION 1. The legislature finds that Hawaii's dependence
- 4 on petroleum for about ninety per cent of its energy needs is
- 5 more than any other state in the nation. This makes the State
- 6 extremely vulnerable to any oil embargo, supply disruption,
- 7 international market dysfunction, and many other factors beyond
- 8 the control of the State. Furthermore, the continued
- 9 consumption of conventional petroleum fuel negatively impacts
- 10 the environment. At the same time, Hawaii has among the most
- 11 abundant renewable energy resources in the world, in the form of
- 12 solar, geothermal, wind, biomass, and ocean energy assets.
- The legislature also finds that increased energy efficiency
- 14 and use of renewable energy resources would increase Hawaii's
- 15 energy self-sufficiency, achieving broad societal benefits,
- 16 including increased energy security, resistance to increases in

- 1 oil prices, environmental sustainability, economic development,
- 2 and job creation.
- 3 Over the years, the legislature has worked steadily to
- 4 encourage the deployment of renewable energy resources and
- 5 energy efficiency initiatives. This includes:
- 6 (1) Establishing a net energy metering program,
- 7 interconnection standards, and renewable energy tax
- 8 credits;
- 9 (2) Establishing greenhouse gas and energy consumption
- 10 reduction goals for state facilities and requiring the
- use of energy efficient products in state facilities;
- 12 and
- 13 (3) Providing incentives for the deployment of solar
- 14 energy devices.
- 15 The legislature also established an enforceable renewable
- 16 energy portfolio standard under which twenty per cent of
- 17 Hawaii's electricity is to be generated from renewable resources
- 18 by the end of 2020.
- 19 There now exists an unprecedented, historical opportunity
- 20 for Hawaii to emerge as a leader in the hydrogen economy.
- 21 Hydrogen technology development is already attracting
- 22 billions of dollars in investment capital not only in the United

- 1 States, but also in other countries in Europe, and Japan. On a
- 2 national level, federal initiatives are resulting in the
- 3 development of hydrogen and fuel cell technologies in
- 4 partnership with automakers and major energy companies.
- 5 Analysts predict that these initiatives, along with efforts in
- 6 other countries, will lead to the development of markets for
- 7 hydrogen and supportive hydrogen fuel cell technologies and
- 8 infrastructure. The question is no longer "if", but "when."
- 9 Current and potential commercial hydrogen energy
- 10 technologies have a viable path forward and can lead to future
- 11 market adoption of renewable hydrogen technologies. The
- 12 legislature recognizes the need for programs around renewable
- 13 and nonrenewably generated hydrogen, available today with
- 14 current technologies, to increase customer acceptance and public
- 15 awareness that will ultimately lead to statewide adoption of
- 16 hydrogen for both transportation fuel and electricity.
- 17 Locally, the historic confluence of the State's desire for
- 18 energy self-sufficiency through development of renewable energy
- 19 with the global opportunity of the emerging hydrogen economy
- 20 calls for a major, far-sighted initiative, sustainable over the
- 21 long-term, to develop Hawaii's renewable energy resources and,

- 1 ultimately, to transition Hawaii to an indigenous-resource-based
- 2 energy economy.
- Right now, the greatest immediate opportunity to achieve
- 4 this vision resides on the island of Hawaii.
- 5 On the island of Hawaii, more electricity is produced from
- 6 renewable resources than can currently be used. Several wind
- 7 projects are expected to be completed in the near term,
- 8 exacerbating this problem. Furthermore, the Puna geothermal
- 9 project is planning to increase its energy contribution only if
- 10 the electric utility can take and use the energy. This provides
- 11 an opportunity to use excess geothermal and other renewable
- 12 energy resources to produce hydrogen using water electrolysis.
- 13 This clean, renewable hydrogen would then be used as an energy
- 14 carrier for stationary power and transportation fuels, making
- 15 the island self-sufficient.
- 16 Hydrogen could also be exported to Oahu and other islands
- 17 as the clean fuel of choice for power generation and
- 18 transportation fuels, achieving greater self-sufficiency for the
- 19 State of Hawaii.
- 20 To shape Hawaii's energy future and achieve the goal of
- 21 energy self-sufficiency for the State of Hawaii, our efforts
- 22 must continue on all fronts, integrating new and evolving



HB LRB 08-0978.doc

H.B. NO. 2938

technologies, seizing upon economic opportunities to become more 1 energy efficient and economically diversified, and providing 2 incentives and assistance to address barriers. 3 4 The purpose of this Act is to provide [a] one segment of a larger comprehensive approach to achieving energy self-5 6 sufficiency for the State by: Increasing the renewable energy technologies income 7 (1)tax credit for certain solar-thermal, wind-powered, 8 9 [and] photovoltaic energy, and hydrogen energy systems and removing the tax credits' 2008 sunset date; 10 Establishing a program and strategy for increased 11 (2) hydrogen and biofuel research and use in the State; 12 13 (3) Establishing state support for achieving alternate 14 fuels standards; and (4)Establishing the pay as you save pilot project to 15 provide a financing mechanism to make purchases of 16 residential solar hot water heater systems more 17 affordable." 18 Section 235-12.5, Hawaii Revised Statutes, is 19 SECTION 2. amended by amending subsection (a) to read as follows: 20 "(a) When the requirements of subsection (c) are met, each 21 individual or corporate taxpayer that files an individual or 22

H.B. NO. 2938

1	corporate ne	et i	ncome tax return for a taxable year may claim a		
2	tax credit under this section against the Hawaii state				
3	individual o	or c	orporate net income tax. The tax credit may be		
4	claimed for	eve	ry eligible renewable energy technology system		
5	that is installed and placed in service in the State by a				
6	taxpayer during the taxable year. This credit shall be				
7	available for systems installed and placed in service in the				
8	State after June 30, 2003. The tax credit may be claimed as				
9	follows:				
10	(1) So	olar	thermal energy systems for:		
11	(2	A)	Single-family residential property: thirty-five		
12			per cent of the actual cost or \$2,250, whichever		
13			is less;		
14	(1	B)	Multi-family residential property: thirty-five		
15			per cent of the actual cost or \$350 per unit,		
16			whichever is less; and		
17	((C)	Commercial property: thirty-five per cent of the		
18			actual cost or \$250,000, whichever is less;		
19	(2) W	ind-	powered energy systems for:		
20	. ()	A)	Single-family residential property: twenty per		
21			cent of the actual cost or \$1,500, whichever is		
22			less;		

H.B. NO. 2938

1		(B)	Multi-family residential property: twenty per
2			cent of the actual cost or \$200 per unit,
3			whichever is less; and
4		(C)	Commercial property: twenty per cent of the
5			actual cost or \$500,000, whichever is less; [and]
6	(3)	Phot	ovoltaic energy systems for:
7		(A)	Single-family residential property: thirty-five
8			per cent of the actual cost or \$5,000, whichever
9			is less;
10		(B)	Multi-family residential property: thirty-five
11			per cent of the actual cost or \$350 per unit,
12			whichever is less; and
13		(C)	Commercial property: thirty-five per cent of the
14			actual cost or \$500,000, whichever is less; and
15	(4)	Hydr	ogen energy systems for:
16		(A)	Single-family residential property: thirty-five
17			per cent of the actual cost or \$5,000 per unit,
18			whichever is less;
19		(B)	Multi-family residential property: thirty-five
20			per cent of the actual cost or \$10,000 per unit,
21			whichever is less; and

H.B. NO. 2938

1	(C) Commercial property: thirty-five per cent of the					
2	actual cost or \$15,000 per unit, whichever is					
3	<u>less;</u>					
4	provided that multiple owners of a single system shall be					
5	entitled to a single tax credit; and provided further that the					
6	tax credit shall be apportioned between the owners in proportion					
7	to their contribution to the cost of the system.					
8	In the case of a partnership, S corporation, estate, or					
9	trust, the tax credit allowable is for every eligible renewable					
10	energy technology system that is installed and placed in service					
11	in the State by the entity. The cost upon which the tax credit					
12	is computed shall be determined at the entity level.					
13	Distribution and share of credit shall be determined pursuant to					
14	section 235-110.7(a)."					
15	SECTION 3. Statutory material to be repealed is bracketed					
16	and stricken. New statutory material is underscored.					
17	SECTION 4. This Act shall take effect upon its approval					
18	and shall apply to taxable years beginning after December 31,					
19	2007.					
20						
	INTRODUCED BY:					
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Report Title:

Renewable Energy Technologies; Tax Credit; Hydrogen Energy Systems

Description:

Expands the renewable energy technologies tax credit to include hydrogen energy systems.