A BILL FOR AN ACT

RELATING TO ENERGY.

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

1 The legislature finds that Hawaii's dependence 2 on petroleum for about ninety per cent of its energy needs is 3 more than any other state in the nation. This dependence makes 4 the state extremely vulnerable to any oil embargo, supply 5 disruption, and international market dysfunction, and many other factors beyond the control of the State. Furthermore, the 6 7 continued consumption of conventional petroleum fuel negatively 8 impacts the environment. 9 The legislature also finds that increased energy efficiency 10 and use of renewable energy resources would increase Hawaii's 11 energy self-sufficiency, achieving broad societal benefits, 12 including increased energy security, resistance to increases in 13 oil prices, environmental sustainability, economic development, 14 and job creation. 15 Over the years, the legislature has worked steadily to 16 encourage the deployment of renewable energy resources and 17 energy efficiency initiatives. This includes but is not limited



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to:

1	(1)	Establishing a net energy metering program,
2		interconnection standards, and renewable energy tax
3		credits;
4	(2)	Establishing greenhouse gas and energy consumption
5		reduction goals for state facilities and requiring the
6		use of energy efficient products in state facilities;
7		and
8	(3)	Providing incentives for the deployment of solar
9		energy devices.
10	The legis	lature also established an enforceable renewable energy
11	portfolio	standard, under which twenty per cent of Hawaii's
12	electrici	ty is to be generated from renewable resources by the
13	end of 20	20.
14	To sl	hape Hawaii's energy future and achieve the goal of
15	energy se	lf-sufficiency for the State of Hawaii, our efforts
16	must cont	inue on all fronts, integrating new and evolving
17	technolog	ies and providing incentives and assistance to address
18	barriers.	
19	The p	ourpose of this Act is to provide a comprehensive
20	approach t	to achieving energy self-sufficiency for the State by:
21	(1)	Increasing the renewable energy technologies income
22		tax credit for certain solar-thermal and photovoltaic

1		energy systems and removing the tax credits' 2008
2		sunset date;
3	(2)	Authorizing the issuance of general obligation bonds
4		to develop and implement a pilot project to install
5		photovoltaic systems at public schools on the islands
6		of Oahu, Hawaii, Maui, and Kauai;
7	(3)	Authorizing the issuance of general obligation bonds
8		to bring state facilities into compliance with the
9		purposes of Act 77, Session Laws of Hawaii 2002,
10		which, among other things, establishes greenhouse gas
11		and energy consumption reduction goals for state
12		facilities;
13	(4)	Promoting the use of green building practices by
14		requiring each county agency that issues building,
15		construction, or development-related permits to
16		establish a procedure for priority processing of
17		permit applications for construction projects
18		incorporating Leadership in Energy and Environmental
19		Design building standards;
20	(5)	Establishing the pay as you save pilot project to
21		provide a financing mechanism to make purchases of

1	residential solar hot water heater systems more
2	affordable; and
3	(6) Establishing a Hawaii renewable hydrogen program and
4	hydrogen investment capital special fund and providing
5	appropriate funding therefor.
6	PART I. RENEWABLE ENERGY TECHNOLOGIES INCOME TAX CREDIT
7	SECTION 2. Section 235-12.5, Hawaii Revised Statutes, is
8	amended as follows:
9	1. By amending subsection (a) to read:
10	"(a) When the requirements of subsection (c) are met, each
11	individual or corporate resident taxpayer that files an
12	individual or corporate net income tax return for a taxable year
13	may claim a tax credit under this section against the Hawaii
14	state individual or corporate net income tax. The tax credit
15	may be claimed for every eligible renewable energy technology
16	system that is installed and placed in service by a taxpayer
17	during the taxable year. This credit shall be available for
18	systems installed and placed in service after June 30, 2003.
19	The tax credit may be claimed as follows:
20	(1) Solar thermal energy systems for:

1		(A)	Single-lamily residential property: thirty-five
2			per cent of the actual cost or $[\$1,750,]$ $\$2,250,$
3			whichever is less;
4		(B)	Multi-family residential property: thirty-five
5			per cent of the actual cost or [\$350] \$1,000 per
6			unit, whichever is less; and
7		(C)	Commercial property: thirty-five per cent of the
8			actual cost or [\$250,000,] <u>\$500,000</u> whichever is
9			less;
10	(2)	Wind	l-powered energy systems for:
11		(A)	Single-family residential property: twenty per
12			cent of the actual cost or \$1,500, whichever is
13			less;
14		(B)	Multi-family residential property: twenty per
15			cent of the actual cost or \$200 per unit,
16			whichever is less; and
17		(C)	Commercial property: twenty per cent of the
18			actual cost or \$250,000, whichever is less; and
19	(3)	Phot	ovoltaic energy systems for:
20		(A)	Single-family residential property: thirty-five
21			per cent of the actual cost or [\$1,750,] \$7,500,
22			whichever is less;

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1	(B) Multi-family residential property: thirty-five
2	per cent of the actual cost or $[\$350]$ $\$1,000$ per
3	unit, whichever is less; and
4	(C) Commercial property: thirty-five per cent of the
5	actual cost or [\$250,000,] \$500,000, whichever is
6	less;
7	provided that multiple owners of a single system shall be
8	entitled to a single tax credit; and provided further that the
9	tax credit shall be apportioned between the owners in proportion
10	to their contribution to the cost of the system.
11	In the case of a partnership, S corporation, estate, or
12	trust, the tax credit allowable is for every eligible renewable
13	energy technology system that is installed and placed in service
14	by the entity. The cost upon which the tax credit is computed
15	shall be determined at the entity level. Distribution and share
16	of credit shall be determined pursuant to section 235-110.7(a)."
17	2. By amending subsection (c) to read:
18	"(c) [The] For taxable years beginning after
19	December 31, 2005, the dollar amount of [any new federal energy
20	tax credit similar to the credit provided in this section that
21	is established after June 30, 2003, and any utility rebate[7]

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2 installation before applying the state tax credit." 3 SECTION 3. Act 207, Session Laws of Hawaii 2003, is 4 amended by amending section 4 to read as follows: 5 "SECTION 4. This Act shall take effect on July 1, 2003[7 and shall be repealed January 1, 2008]." 6 7 PART II. RENEWABLE ENERGY AND ENERGY EFFICIENCY 8 IN HAWAII'S PUBLIC SCHOOLS 9 SECTION 4. The director of finance is authorized to issue 10 general obligation bonds in the sum of \$5,000,000, or so much 11 thereof as may be necessary, and the same sum or so much thereof 12 as may be necessary is appropriated for fiscal year 2006-2007 13 for the purpose of developing and implementing a photovoltaic, 14 net energy metered pilot project in public schools. 15 department of education shall determine the project sites most 16 suitable in meeting the pilot project's objectives. The project 17 objectives shall: 18 Have, at a minimum, a project site at one public (1)19 school on each of the islands of Oahu, Hawaii, and 20 Kauai, and one public school within the county of 21 Maui;

shall be deducted from the cost of the qualifying system and its

1	(2)	Allow installation of photovoltaic systems to be timed
2		in conjunction with substantial roof repairs or roof
3		replacement of the building to further reduce project
4		costs;
5	(3)	Use the application of net energy metering to offset
6		costs of the system;
7	(4)	Recapture system costs within three-quarters of the
8		useful life of the photovoltaic system; and
9	(5)	When advantageous, use energy-savings contracts such
10		as third party lease/purchase contracts to maximize
11		the objectives of this section.
12	The	sum appropriated shall be expended by the department of
13	education	
14	The	appropriation made for the capital improvement project
15	authorize	d by this section shall not lapse at the end of the
16	fiscal bio	ennium for which the appropriation is made; provided
17	that all 1	moneys from the appropriation unencumbered as of June
18	30, 2008,	shall lapse as of that date.
19	The o	department of education shall submit an interim report
20	on the pi	lot project to the legislature no later than twenty
21	days prio	r to the convening of the regular session of 2007 and a

1	final report to the legislature no later than twenty days prior
2	to the convening of the regular session of 2008.
3	PART III. ENERGY EFFICIENCY FOR STATE FACILITIES,
4	MOTOR VEHICLES, AND EQUIPMENT
5	SECTION 5. Chapter 196, Hawaii Revised Statutes, is
6	amended by adding a new section to be appropriately designated
7	and to read as follows:
8	"§196- Energy efficiency for state facilities and
9	vehicles. (a) Each agency is directed to implement, to the
10	extent possible, the following goals during planning and budget
11	preparation and during program implementation.
12	(b) With regard to buildings and facilities, each agency
13	shall:
14	(1) For all design that is initiated on or after
15	July 1, 2006, for construction or substantial
16	renovation of a building, utilizing fifty per cent or
17	more in state funds, use the Leadership in Energy and
18	Environmental Design silver or Two Green Globes rating
19	system or another comparable state-approved,
20	nationally recognized, and consensus-based guideline,
21	standard, or system except if the quideline, standard,

1		or system interferes or conflicts with the use of the
2		building or facility as an emergency shelter;
3	(2)	Incorporate energy efficiency measures to prevent heat
4		gain in residential facilities of three stories and
5		below to provide R-19 or equivalent on roofs, R-11 or
6		equivalent in walls, and high-performance windows to
7		minimize heat gain and, if air conditioned, minimize
8		cool air loss. Where possible, buildings shall be
9		oriented to maximize natural ventilation and day-
10		lighting without heat gain and to optimize solar for
11		water heating. This paragraph shall apply to new
12		residential facilities built using any portion of
13		state funds or located on state lands. For the
14		purposes of this paragraph, "R-value" means the
15		constant time rate resistance to heat flow through a
16		unit area of a body induced by a unit temperature
17		difference between the surfaces, and is a measure of
18		the thermal resistance of building envelope components
19		such as roof and walls. The higher the R-value, the
20		greater the resistance to heat flow;
21	(3)	Install solar water heating systems where it is cost-
22		effective, based on a comparative analysis to

1		determine the cost-benefit of using a conventional
2		water heating system or a solar water heating system.
3		The analysis shall be based on the projected life
4		cycle costs to purchase and operate the water heating
5		system. If the life cycle analysis is positive, the
6		facility shall incorporate solar water heating. If
7		water heating entirely by solar is not cost-effective,
8		the analysis shall evaluate the life cycle, cost-
9		benefit of solar water heating for preheating water.
10		If a multi-story building is centrally air
11		conditioned, heat recovery shall be employed as the
12		primary water heating system. Single-family
13		residential clients of the department of Hawaiian home
14		lands and any agency or program that can take
15		advantage of utility rebates are exempted from this
16		requirement so they may continue to qualify for
17		utility rebates for solar water heating;
18	(4)	Implement water and energy efficiency practices in
19		operations to reduce waste and increase conservation;
20	(5)	Incorporate principles of waste minimization and
21		pollution prevention, such as reducing, reusing, and
22		recycling, as a standard operating practice in

1		programs, including programs for construction and
2		demolition of waste management and office paper and
3		packaging recycling programs;
4	(6)	Use life cycle cost-benefit analysis to purchase
5		energy efficient equipment such as ENERGY STAR
6		products and use utility rebates where available to
7		reduce purchase and installation costs; and
8	(7)	Procure environmentally preferable products, including
9		recycled and recycled-content, bio-based, and other
10		resource-efficient products and materials.
11	<u>(c)</u>	With regard to transportation fuel, each agency shall:
12	(1)	Comply with Title 10, Code of Federal Regulations,
13		Part 490, subpart C, "Mandatory State Fleet Program",
14		<pre>if applicable;</pre>
15	(2)	Comply with all applicable state laws regarding
16		vehicle purchases;
17	(3)	Once federal and state vehicle purchase mandates have
18		been satisfied, purchase the most fuel-efficient
19		vehicle to meet the needs of the program the vehicle
20	•	is designated for; provided that life cycle cost-
21		benefit analysis of a vehicle purchase shall include
22		projected fuel costs;

1	(4)	Purchase alternative fuels and ethanol blended
2		gasoline when available;
3	(5)	Evaluate a purchase preference for biodiesel blends,
4		as applicable to agencies with diesel fuel purchases;
5	(6)	Promote efficient operation of vehicles;
6	(7)	Use the most appropriate minimum octane fuel; provided
7		that vehicles shall use 87-octane fuel unless the
8		owner's manual for the vehicle states otherwise or the
9		engine experiences knocking or pinging;
10	(8)	Beginning with fiscal year 2005-2006 as the baseline,
11		collect and maintain, for the life of each vehicle
12		acquired, the following data:
13		(A) Vehicle acquisition cost;
14	,	(B) United States Environmental Protection Agency
15		rated fuel economy;
16		(C) Vehicle fuel configuration, such as gasoline,
17		diesel, flex-fuel gasoline/E85, and dedicated
18	·	propane;
19		(D) Actual in-use vehicle mileage;
20		(E) Actual in-use vehicle fuel consumption; and
21		(F) Actual in-use annual average vehicle fuel
22		economy;

1		<u>and</u>
2	(9)	Beginning with fiscal year 2005-2006 as the baseline
3		with respect to each agency that operates a fleet of
4		thirty or more vehicles, collect and maintain, in
5		addition to the data in paragraph (8), the following:
6		(A) Information on the vehicles in the fleet,
7		including vehicle year, make, model, gross
8		vehicle weight rating, and vehicle fuel
9		configuration;
10		(B) Fleet fuel usage, by fuel;
11		(C) Fleet mileage; and
12		(D) Overall annual average fleet fuel economy and
13		average miles per gallon of gasoline and diesel.
14	SECT	ON 6. Section 36-41, Hawaii Revised Statutes, is
15	amended to	read as follows:
16	"§36	41 Energy retrofit and [performance] energy-savings
17	contracti	g for public facilities. (a) All agencies shall
18	evaluate a	nd identify for implementation energy efficiency
19	retrofitt	ng through [performance] energy-savings contracting.
20	Agencies	hat perform energy efficiency retrofitting may
21	continue (receive budget appropriations for energy
22	expenditu	es at an amount that shall not fall below the

- 1 pre-retrofitting energy budget but shall rise in proportion to
- 2 any increase in the agency's overall budget for the duration of
- 3 the [performance] energy-savings contract or project payment
- 4 term.
- 5 (b) Any agency may enter into a multi-year [energy
- 6 performance] energy-savings contract for the purpose of
- 7 undertaking or implementing energy conservation or alternate
- 8 energy measures in a facility or facilities. An [energy
- 9 performance] energy-savings contract may include [but shall not
- 10 be limited to financing options such as leasing,
- 11 lease-purchase, financing agreements, third-party joint
- 12 ventures, guaranteed-savings plans, or energy service contracts,
- 13 or any combination thereof; provided that in due course the
- 14 agency may receive title to the energy system being financed.
- 15 Except as otherwise provided by law, the agency that is
- 16 responsible for a particular facility shall review and approve
- 17 [energy performance] energy-savings contract arrangements for
- 18 the facility.
- 19 (c) Notwithstanding any law to the contrary relating to
- 20 the award of public contracts, any agency desiring to enter into
- 21 an [energy performance] energy-savings contract shall do so in
- 22 accordance with the following provisions:

1	(1)	The agency shall issue a public request for proposals,
2		advertised in the same manner as provided in chapter
3		103D, concerning the provision of energy efficiency
4		services or the design, installation, operation, and
5		maintenance of energy equipment or both. The request
6		for proposals shall contain terms and conditions
7		relating to submission of proposals, evaluation and
8		selection of proposals, financial terms, legal
9		responsibilities, and other matters as may be required
10		by law and as the agency determines appropriate;
11	(2)	Upon receiving responses to the request for proposals,
12		the agency may select the most qualified proposal or
13		proposals on the basis of the experience and
14		qualifications of the proposers, the technical
15		approach, the financial arrangements, the overall
16		benefits to the agency, and other factors determined
17		by the agency to be relevant and appropriate;
18	(3)	The agency thereafter may negotiate and enter into an
19		[energy performance] energy-savings contract with the
20		person or company whose proposal is selected as the
21		most qualified based on the criteria established by
22		the agency;

1 (4	The term of any [energy performance] energy-savings
2	contract entered into pursuant to this section shall
3	not exceed twenty years;
4 (5)	Any contract entered into shall contain the following
5	annual allocation dependency clause:
6	"The continuation of this contract is contingent upon
7	the appropriation of funds to fulfill the requirements
8	of the contract by the applicable funding authority.
9	If that authority fails to appropriate sufficient
10	funds to provide for the continuation of the contract,
11	the contract shall terminate on the last day of the
12	fiscal year for which allocations were made";
13 (6)	Any [energy performance] <u>energy-savings</u> contract may
14	provide that the agency shall ultimately receive title
15	to the energy system being financed under the
16	contract;
17 (7)	Any [energy performance] <u>energy-savings</u> contract shall
18	provide that total payments shall not exceed total
19	savings; and
20 (8)	For any guaranteed-savings plan:
21	(A) The payment obligation for each year of the
22	contract, including the year of installation,

1		shall be guaranteed by the private sector person
2		or company to be less than the annual energy cost
3		savings attributable under the contract to the
4		energy equipment and services. Such guarantee,
5		at the option of the agency, shall be a bond or
6		insurance policy, or some other guarantee
7	·	determined sufficient by the agency to provide a
8		level of assurance similar to the level provided
9		by a bond or insurance policy; and
10	(B)	In the event that the actual annual verified
11		savings are less than the annual amount
12		guaranteed by the energy service company, the
13		energy service company, within thirty days of
14		being invoiced, shall pay the agency, or cause
15		the agency to be paid, the difference between the
16		guaranteed amount and the actual verified amount.
17	(d) For p	purposes of this section:
18	"Agency" r	means any executive department, independent
19	commission, boa	ard, bureau, office, or other establishment of the
20	State or any co	ounty government, the judiciary, the University of
21	Hawaii, or any	quasi-public institution that is supported in
22	whole or in par	ct by state or county funds.

- "[Energy performance] Energy-savings contract" means an agreement for the provision of energy services and equipment, including [but not limited to] building or facility energy conservation enhancing retrofits, water saving technology retrofits, and alternate energy technologies, in which a private sector person or company agrees to finance, design, construct, install, maintain, operate, or manage energy systems or
- 8 equipment to improve the energy efficiency of, or produce energy
- 9 in connection with, a facility in exchange for a portion of the
- 10 cost savings, lease payments, or specified revenues, and the
- 11 level of payments is made contingent upon the verified energy
- 12 savings, energy production, avoided maintenance, avoided energy
- 13 equipment replacement, or any combination of the foregoing
- 14 bases. Energy conservation retrofits also include energy saved
- 15 off-site by water or other utility conservation enhancing
- 16 retrofits.
- 17 "Facility" means a building or buildings or similar
- 18 structure, including the site owned or leased by, or otherwise
- 19 under the jurisdiction of, the agency.
- 20 "Financing agreement" shall have the same meaning as in
- 21 section 37D-2.

1	"Guaranteed-savings plan" means an agreement under which a
2	private sector person or company undertakes to design, install,
3	operate, and maintain improvements to an agency's facility or
4	facilities and the agency agrees to pay a contractually
5	specified amount of verified energy cost savings.
6	"Verified" means the technique used in the determination of
7	baseline energy use, post-installation energy use, and energy
8	and cost savings by the following measurement and verification
9	techniques: engineering calculations, metering and monitoring,
10	utility meter billing analysis, computer simulations,
11	mathematical models, and agreed-upon stipulations by the
12	customer and the energy service company."
13	SECTION 7. Section 196-1, Hawaii Revised Statutes, is
14	amended to read as follows:
15	"§196-1 Findings and declaration of necessity. The
16	legislature finds that:
17	(1) [There is widespread shortage of] The global demand
18	for petroleum and its derivatives [which] has caused
19	severe economic hardships throughout the State and
20	[which] threatens to impair the public health, safety
21	and welfare.

	[The current energy crisis is caused by a global
	energy shortage which will worsen through the
	remainder of this decade and may continue to the end
	of this century.] The State of Hawaii, with its total
	dependence for energy on imported fossil fuel, is
	particularly vulnerable to dislocations in the global
	energy market. This is an anomalous situation, as
	there are few places in the world so generously
	endowed with natural energy: geothermal, solar
	radiation, ocean temperature differential, wind,
	waves, and currentsall potential non-polluting power
	sources.
(2)	There is a real need for strategic comprehensive
·	planning in the effort towards achieving full

utilization of Hawaii's energy resource programs and the most effective allocation of energy resources throughout the State. Planning is necessary and desirable in order that the State may recognize and declare the major problems and opportunities in the field of energy resources. Both short-range and long-range planning will permit the articulation of broad policies, goals, and objectives; criteria for

1		measuring and evaluating accomplishments of
2		objectives; identification and implementation of
3		programs [which] that will carry out such objectives;
4		and a determination of requirements necessary for the
5		optimum development of Hawaii's energy resources.
6		Such planning efforts will identify present conditions
7		and major problems relating to energy resources, their
8		exploration, development, production, and
9		distribution. It will show the projected nature of
10		the situation and rate of change and present
11		conditions for the foreseeable future based on a
12		projection of current trends in the development of
13		energy resources in Hawaii.
14	(3)	There are many agencies of the federal, state, and
15		county governments in Hawaii, as well as many private
16		agencies, engaged in, or expressing an interest in,
17		various aspects of the exploration, research,
18		distribution, conservation, and production of all
19		forms of energy resources in Hawaii. Some of these
20		agencies include the University of Hawaii, the
21		department of land and natural resources, the
22		department of business, economic development, and

1		tourism, the consumer protection, the federal energy
2		office, and various county agencies, as well as the
3		oil companies, gas stations, and other private
4		enterprises.
5	(4)	There is immediate need to coordinate the efforts of
6		all these agencies, establish and coordinate programs
7		to effectuate the conservation of fuel, to provide for
8		the equitable distribution thereof, and to formulate
9		plans for the development and use of alternative
10		energy sources. There is a need for such coordination
11	•	so that there will be maximum conservation and
12		utilization of energy resources in the State."
13	SECT	ION 8. Section 196-18, Hawaii Revised Statutes, is
14	amended b	y amending subsections (a) and (b) to read as follows:
15	" (a)	The coordinator shall appoint an advisory committee
16	consisting	g of representatives from:
17	(1)	State agencies[;], including the University of Hawaii;
18	[-(2)-	County governments;
19	(3)]	(2) Energy service companies;
20	[(4)]	(3) Utility companies;
21	[(5)]	(4) Equipment manufacturers;
22	[-(6) -]	(5) Construction and architectural companies;

1	[(7)]	(6) Environmental, energy, and consumer groups; and
2	[(8)]	(7) Other energy-related organizations.
3	(b)	The committee shall provide input on state energy
4	management	t, including how to:
5	(1)	Improve the use of energy-savings performance
6		contracts and utility energy-efficiency service
7		contracts;
8	(2)	Improve procurement of ENERGY STAR and other energy
9		efficient products;
10	(3)	Improve building design;
11	(4)	Reduce [process] energy use; [and]
12	(5)	Enhance applications of efficient and renewable energy
13		technologies at state facilities [-];
14	(6)	Establish benchmarks and evaluate the State's progress
15		in incorporating energy efficiency and conservation
16		for state facilities, vehicles, and equipment;
17	(7)	Make recommendations on how and when to conduct
18		periodic energy audits; and
19	<u>(8)</u>	Make recommendations to the legislature no later than
20		twenty days prior to the convening of each regular
21		session, starting with the 2008 regular session, for

1 policy or other statutory changes to carry out the 2 purposes of this chapter." SECTION 9. Section 196-21, Hawaii Revised Statutes, is 3 4 amended as follows: 5 By amending subsection (a) to read: 6 "(a) Agencies shall maximize their use of available 7 alternative financing contracting mechanisms, including 8 energy-savings [performance] contracts and utility 9 energy-efficiency service contracts, when life-cycle cost-effective, to reduce energy use and cost in their 10 11 facilities and operations. Energy-savings contracts shall 12 include: 13 Energy-savings performance contracts; (1) 14 Municipal lease/purchase financing; and (2) 15 (3) Utility energy efficiency service contracts. 16 Energy-savings [performance] contracts and utility 17 energy-efficiency service contracts shall provide significant 18 opportunities for making state facilities more energy efficient 19 at no net cost to taxpayers." 20 2. By amending subsection (c) to read as follows: 21 "(c) Notwithstanding any law to the contrary relating to

the award of public contracts, any agency desiring to enter into

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- 1 an [energy performance] energy-savings contract shall do so in 2 accordance with the following provisions:
- 3 (1) The agency shall issue a public request for proposals, 4 advertised in the same manner as provided in chapter 103D, concerning the provision of energy efficiency 5 services or the design, installation, operation, and 6 7 maintenance of energy equipment, or both. The request 8 for proposals shall contain terms and conditions 9 relating to submission of proposals, evaluation, and 10 selection of proposals, financial terms, legal 11 responsibilities, and other matters as may be required 12 by law and as the agency determines appropriate;
 - (2) Upon receiving responses to the request for proposals, the agency may select the most qualified proposal or proposals on the basis of the experience and qualifications of the proposers, the technical approach, the financial arrangements, the overall benefits to the agency, and other factors determined by the agency to be relevant and appropriate;
 - (3) The agency thereafter may negotiate and enter into an [energy performance] energy-savings contract with the person or company whose proposal is selected as the

1		most qualified based on the criteria established by
2		the agency;
3	(4)	The term of any [energy performance] energy-savings
4		contract entered into pursuant to this section shall
5		not exceed fifteen years;
6	(5)	Any [energy performance] energy-savings contract may
7		provide that the agency ultimately shall receive title
8		to the energy system being financed under the
9		contract; and
10	(6)	Any [energy performance] energy-savings contract shall
11		provide that total payments shall not exceed total
12		savings."
13	SECT	ION 10. Section 196-22, Hawaii Revised Statutes, is
14	amended to	read as follows:
15	"§19¢	5-22 State energy projects. State energy projects may
16	be impleme	ented under this chapter with the approval of the
17	comptrolle	er and the director of finance. Notwithstanding
18	section 3	6-41 or 196-21, the comptroller or the senior agency
19	official o	of the department of accounting and general services,
20	along with	n the director of finance, may exempt a state energy
21	project fi	rom the advertising and competitive bidding
22	requiremen	nts of section 36-41 or 196-21 and chapter 103, if the

- 1 comptroller deems exemption appropriate for energy projects with
- 2 proprietary technology or necessary to meet the goals of the
- 3 legislature. In addition, this section shall be construed to
- 4 provide the greatest possible flexibility to agencies in
- 5 structuring agreements entered into so that economic benefits
- 6 and existing energy incentives may be used and maximized and
- 7 financing and other costs to agencies may be minimized. The
- 8 specific terms of [energy performance] energy-savings
- 9 contracting under section 36-41 may be altered if deemed
- 10 advantageous to the agency and approved by the director of
- finance and the senior agency official."
- 12 SECTION 11. Section 196-23, Hawaii Revised Statutes, is
- 13 amended to read as follows:
- "[+] §196-23[+] Energy efficient products. (a) Agencies
- 15 shall select, where life-cycle cost-effective, ENERGY STAR and
- 16 other energy efficient products when acquiring energy-using
- 17 products. For product groups where ENERGY STAR labels are not
- 18 yet available, agencies may select products that are in the
- 19 upper twenty-five per cent of energy efficiency as designated by
- 20 the United States Department of Energy, Office of Energy
- 21 Efficiency and Renewable Energy, Federal Energy Management
- 22 Program.

1	Agencies shall incorporate energy efficient criteria
2	consistent with designated energy efficiency levels [into all
3	guide specifications and project specifications developed for
4	new construction and renovation, as well as] into product
5	specification language developed for all purchasing procedures.
6	The State shall also consider the creation of financing
7	agreements with private sector suppliers to provide private
8	funding to offset higher up-front costs of efficient products.
9	[(b) Agencies shall strive to meet the ENERGY STAR
10	building criteria for energy performance and indoor
11	environmental quality in their eligible facilities to the
12	maximum extent practicable by December 31, 2005. Agencies may
13	use energy savings performance contracts, utility energy-
14	efficiency service contracts, or other means to conduct
15	evaluations and make improvements to facilities. Facilities
16	that rank in the top twenty five per cent in energy efficiency
17	relative to comparable commercial and state buildings shall
18	receive the ENERGY STAR building label or its equivalent as
19	determined by the coordinator. Agencies shall integrate this
20	rating tool into their general facility audits.
21	(c) The State shall employ sustainable design principles
22	and agencies shall apply the principles to the siting, design,

1 and construction of new facilities. Agencies shall optimize 2 life-cycle costs, pollution, and other environmental and energy 3 costs associated with the construction, life-cycle operation, 4 and decommissioning of the facility. Agencies shall consider 5 using energy savings performance contracts or utility energy-6 efficiency service contracts to aid them in constructing 7 sustainably designed buildings. 8 (d) (b) Agencies entering into leases, including the 9 renegotiation or extension of existing leases, shall incorporate 10 lease provisions that encourage energy and water efficiency 11 wherever life-cycle cost-effective. Build-to-suit lease 12 solicitations shall contain criteria encouraging sustainable 13 design and development, energy efficiency, and verification of 14 facility performance. Agencies shall include a preference for 15 facilities having an ENERGY STAR building label in their 16 selection criteria for acquiring leased facilities. In 17 addition, all agencies shall encourage lessors to apply for an ENERGY STAR building label and to explore and implement projects 18 19 that will reduce costs to the State, including projects carried out through the lessors' energy-savings [performance] contracts 20 21 [or utility energy efficiency service contracts].

1	[(e) Agencies shall implement energy reduction systems,
2	and other highly efficient systems, in new construction or
3	retrofit projects when life-cycle cost-effective. Agencies
4	shall consider combined cooling, heat, and power systems when
5	determined to be the most cost effective when measured against
6	other alternatives on a life cycle cost basis. Agencies shall
7	survey local natural resources to optimize use of available
8	solar, ocean thermal, biomass, bioenergy, geothermal, or other
9	naturally occurring energy sources.
10	(f) Agencies shall use off-grid generation systems,
11	including solar hot water, solar electric, solar outdoor
12	lighting, small wind turbines, fuel cells, and other off grid
13	alternatives, where such systems are life cycle cost effective
14	and offer benefits including energy efficiency, pollution
15	prevention, source energy reductions, avoided infrastructure
16	costs, or expedited service.] "
17	SECTION 12. The director of finance is authorized to issue
18	general obligation bonds in the sum of \$25,000,000 or so much
19	thereof as may be necessary and the same sum or so much thereof
20	as may be necessary, is appropriated for fiscal year 2006-2007
21	for the purposes of carrying out the purposes of part III of
22	this Act regarding energy efficiency for state facilities,

- 1 vehicles, and equipment under the control of the department of
- 2 accounting and general services.
- 3 The sum appropriated shall be expended by the department of
- 4 accounting and general services.
- 5 SECTION 13. The director of finance is authorized to issue
- 6 general obligation bonds in the sum of \$25,000,000 or so much
- 7 thereof as may be necessary, and the same sum or so much thereof
- 8 as may be necessary is appropriated for fiscal year 2006-2007
- 9 for the purposes of carrying out the purposes of part III of
- 10 this Act regarding energy efficiency for state facilities,
- 11 vehicles, and equipment under the control of the department of
- 12 education.
- 13 The sum appropriated shall be expended by the department of
- 14 education.
- 15 SECTION 14. The appropriations made for the capital
- 16 improvement projects authorized by sections 12 and 13 of this
- 17 Act shall not lapse at the end of the fiscal biennium for which
- 18 the appropriation is made; provided that all moneys from the
- 19 appropriation unencumbered as of June 30, 2008, shall lapse as
- 20 of that date.
- 21 SECTION 15. There is appropriated out of the general
- 22 revenues of the State of Hawaii the sum of \$, or so

1 much thereof as may be necessary for fiscal year 2006-2007 for 2 the purpose of allocating one full-time energy efficiency coordinator position to address energy efficiency in department 3 4 of education facilities. 5 The sum appropriated shall be expended by the department of education for the purposes of this section. 6 7 SECTION 16. Section 196-8, Hawaii Revised Statutes, is 8 repealed. 9 ["[\$196-8] Energy-efficiency policy review and evaluation. (a) The energy resources coordinator shall ensure that review 10 11 and evaluation comparable to those accomplished by the energy-12 efficiency policy task force established pursuant to Act 163, Session Laws of Hawaii 1998, are undertaken, and that the 13 14 findings and recommendations of the review and evaluation are reported to the legislature no later than twenty days prior to 15 16 the convening of the regular session of 2007. (b) The review and evaluation shall include: 17 18 (1) The efficacy of section 235 12.5 to determine whether 19 the tax credits should be continued or enhanced based 20 on impact and cost benefit analyses or other public 21 policy considerations;

1	(2)	Whether the energy technology systems eligible for tax
2		credits under section 235 12.5 should be expanded,
3		reduced, or remain the same; and
4	(3)	Any other issue regarding energy technology systems
5		identified during the seven year review.
6	(c)	The energy resources coordinator, in undertaking the
7	review an	d evaluation, shall consult with representatives from:
8	(1)	The department of business, economic development, and
9		tourism;
10	(2)	The solar, wind, and photovoltaic industries;
11	(3)	The utilities industry;
12	(4)	The building industry; and
13	(5)	Any other professional or public sector group the
14		energy resources coordinator deems appropriate."]
15	SECT	ION 17. Section 196-12, Hawaii Revised Statutes, is
16	repealed.	
17	[" [\$	196-12] Greenhouse gases reduction goal. Through
18	life cycl	e cost effective energy measures, each agency shall
19	reduce it	s greenhouse gas emissions attributed to facility
20	energy us	e by thirty per cent by January 1, 2012, compared to
21	emission	levels in calendar year 1990. In order to encourage
22	optimal i	nvestment in energy improvements, agencies may count

1 greenhouse gas reductions from improvements in non-facility 2 energy use toward this goal to the extent that these reductions are approved by the coordinator."] 3 4 SECTION 18. Section 196-13, Hawaii Revised Statutes, is 5 repealed. 6 ["[\$196-13] Energy efficiency improvement goals. (a) Through life cycle cost effective measures, each agency shall 7 8 reduce energy consumption per gross square foot of its 9 facilities, excluding laboratory facilities, by twenty per cent **10** by January 1, 2007, and thirty per cent by January 1, 2012, 11 relative to calendar year 1990. No facility shall be exempt 12 from these goals unless it meets criteria for exemptions 13 established by the coordinator. (b) Through life cycle cost effective measures, each 14 15 agency shall reduce energy consumption per square foot, per unit 16 of production, or per other unit as applicable, of its 17 laboratory facilities by fifteen per cent by January 1, 2007, 18 and twenty five per cent by January 1, 2012, relative to calendar year 1995. No facility shall be exempt from these 19 20 goals unless it meets criteria for exemptions established by the 21 coordinator.

1	(c) Each agency shall strive to expand the use of
2	renewable energy within its facilities and in its activities by
3	implementing renewable energy projects and by purchasing
4	electricity from renewable energy sources. Through life cycle
5	cost-effective measures, each agency shall provide twenty per
6	cent of its remaining energy requirements, after energy
7	efficiency improvement goals have been achieved, with renewable
8	energy resources.
9	(d) Through life cycle cost effective measures, each
10	agency shall reduce the use of petroleum generated energy within
11	its facilities. Agencies may accomplish this reduction by
12	switching to less greenhouse gas-intensive or renewable energy
13	sources, by eliminating unnecessary fuel use, or by other
14	appropriate methods. Where alternative fuels are not practical
15	or life cycle cost effective, agencies shall strive to improve
16	the efficiency of their facilities.
17	(e) The State shall strive to reduce total energy use and
18	associated greenhouse gas and other air emissions, as measured
19	at the source. To that end, agencies shall undertake life cycle
20	cost effective projects in which source energy decreases, even
21	if site energy use increases. In those cases, agencies shall

1	receive credit toward energy reduction goals through guidelines
2	established by the coordinator.
3	(f) Through life cycle cost effective measures, agencies
4	shall reduce water consumption and associated energy use in
5	their facilities to reach the goals set under this part. Where
6	possible, water cost savings and associated energy cost savings
7	shall be included in energy savings performance contracts and
8	other financing mechanisms.
9	(g) Each agency's biennial budget submission shall include
10	funding necessary to achieve the goals of this part. Budget
11	submissions shall include the costs associated with encouraging
12	the use of, administering, and fulfilling agency
13	responsibilities under energy savings performance contracts,
14	utility energy efficiency service contracts, and other
15	contractual provisions for achieving conservation goals
16	implementing life cycle cost-effective measures, procuring life-
17	cycle cost effective products, and constructing sustainably
18	designed new buildings, among other energy costs.
19	The director of finance shall issue guidelines to assist
20	agencies in developing appropriate requests that support sound
21	investments in energy improvements and energy using products,
22	and shall consider establishing a fund that agencies may draw on

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1
    to finance exemplary energy management activities and
 2
    investments with higher initial costs but lower life cycle
 3
    <del>costs.</del>
 4
         (h) Each agency shall develop an annual implementation
 5
    plan for fulfilling the requirements of this part. The plans
    shall be included in the annual reports to the coordinator."]
 6
         SECTION 19. Section 196-14, Hawaii Revised Statutes, is
 7
 8
    repealed.
 9
          ["[$196-14] Annual report. Beginning January 1, 2004,
10
    each agency shall measure and report annually to the coordinator
11
    on its progress in meeting the requirements of this part.
12
         The report shall include:
13
         (1) How the agency is using each of the strategies
14
              described in this part to help meet energy and
15
              greenhouse gas reduction goals;
16
         (2) A listing and explanation as to why certain
              strategies, if any, have not been used; and
17
         (3) A listing and explanation of exempt facilities."]
18
19
         SECTION 20. Section 196-15, Hawaii Revised Statutes, is
    repealed.
20
         ["[$196-15] Senior agency official. Each agency shall
21
22
    designate a senior official to be responsible for meeting the
```

- 1 goals and requirements of this part, including preparation of 2 the annual report. Designated officials shall participate in the interagency energy policy committee established under 3 4 section 196-17(c)."] 5 SECTION 21. Section 196-16, Hawaii Revised Statutes, is 6 repealed. 7 ["[\$196-16] Agency energy teams. Each agency shall form a 8 technical support team consisting of appropriate procurement, legal, budget, management, and technical representatives to 9 10 expedite and encourage the agency's use of appropriations, 11 energy savings performance contracts, and other alternative 12 financing mechanisms necessary to meet the goals and 13 requirements of this part. Agency energy team activities shall 14 be undertaken in collaboration with each agency's representative 15 to the interagency energy policy committee."] 16 SECTION 22. Section 196-17, Hawaii Revised Statutes, is 17 repealed. 18 ["[\$196-17] Interagency coordination; policy committee. 19 (a) The coordinator shall be responsible for evaluating each 20 agency's progress in improving energy management and for submitting agency energy scorecards to the governor and the 21 22 legislature to report progress.
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1	The	coordinator, in consultation [with] other agencies,
2	shall dev	elop the agency energy scorecards and scoring system to
3	evaluate	each agency's progress in meeting the goals of this
4	part. Th	e scoring criteria shall include:
5	(1)	The extent to which agencies are taking advantage of
6		key tools to save energy and reduce greenhouse gas
7		emissions, such as energy savings performance
8		contracts, utility energy efficiency service
9		contracts, ENERGY STAR and other energy efficient
10		products, renewable energy technologies, electricity
11		from renewable energy sources, and other strategies
12		and requirement;
13	(2)	Overall efficiency;
14	(3)	Greenhouse gas reduction; and
15	(4)	Use of other innovative energy efficiency practices.
16	The	scorecards shall be based on the annual energy reports
17	submitted	to the coordinator.
18	(b)	The coordinator shall be responsible for working with
19	agencies	to ensure that they meet the goals of this part and
20	report th	eir progress. The coordinator shall develop and issue
21	guideline	s for agencies! preparation of their annual reports to
22	the coord	inator on energy management. The coordinator shall

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1
    also have primary responsibility for collecting and analyzing
 2
    the data and shall ensure that agency reports are received in a
 3
    timely manner.
 4
         (c) There is established within the department of
 5
    business, economic development, and tourism, an interagency
 6
    energy policy committee consisting of senior agency officials,
 7
    to be chaired by the coordinator. The committee shall be
 8
    responsible for encouraging implementation of energy efficiency
9
    policies and practices. The major energy consuming agencies, as
10
    designated by the coordinator, shall participate on the
11
    committee. The committee shall communicate its activities to
12
    all designated senior agency officials to promote coordination
13
    and achievement of the goals of this part."]
14
         SECTION 23. Section 196-20, Hawaii Revised Statutes, is
15
    repealed.
16
         ["[$196-20] Facility energy audits. Agencies shall
17
    conduct energy and water audits for approximately ten per cent
18
    of their facilities each year, either independently or through
19
    energy savings performance contracts or utility energy
20
    efficiency service contracts."]
21
         SECTION 24. Section 196-24, Hawaii Revised Statutes, is
22
    repealed.
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1	["[\$196-24] Electricity use. To advance the greenhouse
2	gas and renewable energy goals of this part, and reduce source
3	energy use, each agency shall strive to use electricity from
4	clean, efficient, and renewable energy sources. An agency's
5	efforts in purchasing electricity from efficient and renewable
6	energy sources shall be taken into account in assessing the
7	agency's progress and formulating its scorecard under section
8	196-17(a). "]
9	SECTION 25. Section 196-25, Hawaii Revised Statutes, is
10	repealed.
11	["[\$196-25] Competition. Agencies shall take advantage of
12	competitive opportunities in the electricity and natural gas
13	markets to reduce costs and enhance services. Agencies are
14	encouraged to aggregate demand across facilities or agencies to
15	maximize their economic advantage."]
16	SECTION 26. Section 196-26, Hawaii Revised Statutes, is
17	repealed.
18	[" [§196-26] Reduced greenhouse gas intensity of electric
19	power. When selecting electricity providers, agencies shall
20	purchase electricity from sources that use high efficiency
21	electric generating technologies when life-cycle cost-effective.
22	Agencies shall consider the greenhouse gas intensity of the

```
source of the electricity and strive to minimize the greenhouse
 1
 2
    gas intensity of purchased electricity."]
 3
         SECTION 27. Section 196-27, Hawaii Revised Statutes, is
 4
    repealed.
          ["[$196-27] Purchasing electricity from renewable energy
 5
 6
    sources. Each agency shall evaluate its current use of
    electricity from renewable energy sources and report this level
 7
 8
    in its annual report to the coordinator. Based on this review,
 9
    each agency shall adopt policies and pursue projects that
10
    increase the use of such electricity. Agencies shall include
11
    provisions for the purchase of electricity from renewable energy
12
    sources as a component of their requests for bids whenever
13
    procuring electricity. Agencies may use savings from energy
14
    efficiency projects to pay additional incremental costs of
15
    electricity from renewable energy sources.
16
         In evaluating opportunities to comply with this section,
17
    agencies shall consider any renewable portfolio standard
18
    specified in the restructuring quidelines for the State and the
19
    United States Environmental Protection Agency guidelines on
20
    crediting renewable energy power."]
21
         SECTION 28. Section 196-28, Hawaii Revised Statutes, is
22
    repealed.
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1	[" [§196-28] Mobile equipment. Each agency shall seek to
2	improve the design, construction, and operation of its mobile
3	equipment, and shall implement all life-cycle-cost-effective
4	energy efficiency measures that result in cost savings while
5	improving mission performance. To the extent that such measures
6	are life-cycle cost-effective, agencies shall consider enhanced
7	use of alternative or renewable based fuels."]
8	SECTION 29. Section 196-29, Hawaii Revised Statutes, is
9	repealed.
10	[" [§196-29] Management strategies. Agencies shall use the
11	following management strategies in meeting the goals of this
12	part:
13	(1) Employee incentive programs to reward exceptional
14	performance in implementing this part;
15	(2) Performance evaluations of successful implementation
16	of this part in areas such as energy savings
17	performance contracts, sustainable design, energy
18	efficient procurement, energy efficiency, water
19	conservation, and renewable energy projects and
20	performance evaluations of agency heads, members of
21	the agency energy team, principal program managers,

1		heads of field offices, facility managers, energy
2		managers, and other appropriate employees;
3	(3)	Agencies shall be allowed to retain a portion of
4		savings generated from efficient energy and water
5		management and shall use the savings at the facility
6		or site where the savings occur to provide greater
7		incentives for that facility and its site managers to
8		undertake more energy management initiatives, invest
9		in renewable energy systems, and purchase electricity
10		from renewable energy sources;
11	(4)	Training and education shall be provided for all
12		appropriate personnel relating to the energy
13		management strategies contained in this part,
14	•	including the incorporation into existing procurement
15		courses information on energy management tools,
16		energy savings performance contracts, utility energy
17		efficiency service contracts, energy efficient
18		products, and life cycle cost analysis; and
19	(5)	Agencies shall designate showcase facilities to
20		highlight energy or water efficiency and renewable
21		energy improvements."]

1	PART IV. COUNTY BUILDING PERMITS AND LEADERSHIP
2	IN ENERGY AND ENVIRONMENTAL DESIGN PRIORITY PROCESSING
3	SECTION 30. Chapter 46, Hawaii Revised Statutes, is
4	amended by adding a new section to be appropriately designated
5	and to read as follows:
6	"§46- County building permits; incorporation of
7	leadership in energy and environmental design building standards
8	in project design; priority processing. (a) Each county agency
9	that issues building, construction, or development-related
10	permits shall establish a procedure for the priority processing
11	of a permit application submitted by a private entity for a
12	construction project that incorporates leadership in energy and
13	environmental design building standards into its project design.
14	The permit processing procedure shall give priority to private
15	sector permit applicants at no additional cost to the applicant.
16	Any priority permit processing procedure established by a county
17	pursuant to this section shall not imply or provide that any
18	permit application filed under the priority processing procedure
19	shall be automatically approved.
20	(b) For the purposes of this section:

1 "Leadership in energy and environmental design building 2 standards" means the green building rating system established by 3 the United States Green Building Council. 4 "Private entity" means any permit applicant that is not the 5 state, county, federal government, or any political subdivision 6 thereof." 7 PART V. SOLAR WATER HEATING PAY AS YOU SAVE SECTION 31. Solar water heating pay as you save program; 8 9 purpose; establishment; tariff filing. (a) Solar water heating 10 systems are a renewable energy technology that uses solar collectors placed on roofs to heat water. These systems 11 12 decrease reliance on imported oil used to generate electricity or gas to heat water because they use less energy than the 13 14 electric or gas hot water heating systems replaced. 15 The legislature finds that the upfront cost of installation 16 is a barrier preventing many Hawaii residents from installing 17 solar water heating systems. The legislature further finds that 18 the renewable energy income tax credit and electric utility 19 rebates have not been enough of an incentive to overcome these 20 upfront costs, especially for rental housing and homes in need 21 of retrofit for these important energy saving devices.

1	The purpose of this section is to authorize the public				
2	utilities	commission to implement a pilot project to be called			
3	the "sola	r water heating pay-as-you-save program."			
4	(b)	The public utilities commission shall implement a			
5	pilot pro	ject to be called the "solar water heating			
6	pay-as-yo	u-save program," which shall:			
7	(1)	Allow a residential electric utility customer to			
8		purchase a solar water heating system:			
9		(A) With no upfront payments; and			
10		(B) By paying the cost of the system over time on the			
11		customer's electric or gas bill;			
12		provided that the estimated electricity or gas savings			
13		from the solar water heating system exceeds the cost			
14		of the system;			
15	(2)	Provide for billing and payment of the solar water			
16		heating system on the utility bill;			
17	(3)	Provide for disconnection of utility service for			
18		non-payment of solar water heating system			
19		pay-as-you-go payments; and			
20	(4)	Allow for assignment of system repayment costs			
21		attached to the meter location.			

- 1 (c) The public utilities commission shall determine the
- 2 time frame of the pilot program and shall gather and analyze
- 3 information to evaluate the pilot program.
- 4 (d) No later than June 30, 2007, each electric utility
- 5 shall implement by tariff a pay-as-you-save model system program
- 6 for residential consumers that is consistent with this section,
- 7 or a similar program for residential customers that meets the
- 8 objectives of this section. Each utility shall provide at least
- 9 six months' prior notice of its proposed tariff to the public
- 10 utilities commission and shall comply with section 269-12(b),
- 11 Hawaii Revised Statutes. Within the prescribed notice period,
- 12 the public utilities commission shall review the proposed tariff
- 13 and, after a hearing, may require modifications to the proposed
- 14 tariff as is necessary to comply with or effectuate the purposes
- 15 of this section.
- 16 (e) The commission shall ensure that all reasonable costs
- 17 incurred by electric utilities to start up and implement the
- 18 pay-as-you-save model system are recovered as part of the
- 19 utility's revenue requirement, including but not limited to
- 20 necessary billing system adjustments and any costs for
- 21 pay-as-you-save model system efficiency measures that are not

1	recovered via participating residential consumers'				
2	pay-as-you-save model system bill payments or otherwise.				
3	PART VI. HAWAII RENEWABLE HYDROGEN PROGRAM AND				
4	HYDROGEN INVESTMENT CAPITAL SPECIAL FUND				
5	SECTION 32. Chapter 196A, Hawaii Revised Statutes, is				
6	amended by adding a new section to be appropriately designated				
7	and to read as follows:				
8	"§196A- Hawaii renewable hydrogen program. (a) There				
9	is established, within the department of business, economic				
10	development, and tourism, a Hawaii renewable hydrogen program to				
11	coordinate the State's transition to a renewable hydrogen				
12	economy. The program shall plan, implement, and conduct				
13	activities, including:				
14	(1) Strategic partnerships with the private sector, the				
15	federal government, national and international				
16	organizations, such as national laboratories and				
17	universities, other states, and Hawaii stakeholders				
18	for research, development, testing, and deployment of				
19	renewable hydrogen technologies;				
20	(2) Engineering and economic studies to define Hawaii's				
21	potential for renewable hydrogen and evaluate				

1		near-term project opportunities presented by the
2		State's available renewable resources;
3	(3)	Electric grid reliability and security projects that
4		will enable integration of extensive renewable
5		electricity on the island of Hawaii;
6	(4)	Hydrogen demonstration projects, including
7		infrastructure for the production, storage, and
8		refueling of hydrogen vehicles;
9	(5)	A statewide hydrogen economy public education and
10		outreach plan, focusing on the island of Hawaii, to be
11		developed in coordination with Hawaii's public
12		education institutions;
13	(6)	The promotion of Hawaii's renewable hydrogen assets
14		and project opportunities to potential partners and
15		investors;
16	(7)	A plan, for implementation during 2007-2010, to more
17		fully deploy hydrogen technologies and infrastructure
18		capable of supporting the island of Hawaii's fuel
19		needs, including:
20		(A) Expanded installation of hydrogen production
21		facilities;

1		<u>(B)</u>	Development of integrated energy systems
2			including hydrogen vehicles;
3		<u>(C)</u>	Construction of additional hydrogen refueling
4			stations; and
5		(D)	Encouragement of building design and construction
6			that fully incorporates clean energy assets,
7			including reliance on hydrogen-fueled distributed
8			<pre>generation;</pre>
9	(8)	A pl	an, for implementation during 2010-2020, to
10		<u>tran</u>	sition the island of Hawaii to a hydrogen-fueled
11		econ	omy by 2020, and to initiate that model throughout
12		the	State; and
13	(9)	<u>An e</u>	valuation of policy instruments and development,
14		<u>in c</u>	oordination with program partners, of policy
15		reco	mmendations to encourage the adoption of
16		hydr	ogen-fueled vehicles, to continually replenish the
17		hydr	ogen investment capital special fund, and to
18		supp	ort investment in hydrogen infrastructure,
19		incl	uding production, storage, and dispensing
20		faci	lities."

1	SECTION 33. Chapter 211F, Hawaii Revised Statutes, is					
2	amended b	y adding a new section to be appropriately designated				
3	and to re	and to read as follows:				
4	"§211F- Hydrogen investment capital special fund. (a)					
5	There sha	ll be established a hydrogen investment capital special				
6	fund into	which shall be deposited:				
7	(1)	Appropriations made by the legislature to the fund;				
8	(2)	All contributions from public or private partners;				
9	(3)	All interest earned on or accrued to moneys deposited				
10		in the special fund; and				
11	(4)	Any other moneys made available to the special fund				
12		from other sources.				
13	(b)	Moneys in the fund shall be used:				
14	(1)	To seed private sector and federal projects for				
15		research, development, testing, and deployment of				
16		renewable hydrogen systems in Hawaii;				
17	(2)	To pay reasonable expenses incurred by fund advisory				
18		board members in the execution of their relevant				
19		duties; and				
20	(3)	For any other purpose deemed necessary to carry out				
21		the purposes of this section."				

- 1 SECTION 34. There is appropriated out of the general
- 2 revenues of the State of Hawaii the sum of \$, or so
- 3 much thereof as maybe necessary for fiscal year 2006-2007, to be
- 4 paid into the hydrogen investment capital special fund to carry
- 5 out the purposes of section 32.
- 6 The sum appropriated shall be expended by department of
- 7 business, economic development, and tourism.
- 8 SECTION 35. There is appropriated out of the hydrogen
- 9 investment capital special fund the sum of \$, or so
- 10 much thereof as may be necessary for fiscal year 2006-2007, to
- 11 be used for the purposes of the hydrogen investment capital
- 12 special fund.
- 13 The sum appropriated shall be expended by the department of
- 14 business, economic development, and tourism.
- 15 SECTION 36. This Act does not affect rights and duties
- 16 that matured, penalties that were incurred, and proceedings that
- 17 were begun, before its effective date.
- 18 SECTION 37. Statutory material to be repealed is bracketed
- 19 and stricken. New statutory material is underscored.
- 20 SECTION 38. This Act shall take effect on July 1, 2050.

Report Title:

Energy Efficiency; Renewable Energy; Alternate Fuel

Description:

Provides a framework for energy self-sufficiency, focusing on energy efficiency and renewable energy resource employment in state facilities, vehicles, and equipment; in the public schools; through the renewable energy technologies income tax credit; by means of priority permitting for renewable energy projects at the county level; and through the establishment of a solar water heating pay as you save program. Establishes a renewable hydrogen program and hydrogen investment capital special fund. (SD1)