A BILL FOR AN ACT

RELATING TO ENERGY RESOURCES.

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

1	PART I
2	PURPOSE
3	SECTION 1. Attaining independence from our detrimental
4	reliance on fossil fuels has been a long-standing objective for
5	the State.
6	Hawaii is the state most dependent on petroleum for its
7	energy needs. It pays the highest electricity prices in the
8	United States, and its gasoline costs are among the highest in
9	the country. Fuel surcharges that pass the increases in fuel
10	costs to consumers have significantly increased the cost of over
11	eighty per cent of the goods and services sold in Hawaii.
12	Household fuels and utilities costs rose 36.4 per cent, from the
13	previous year, as reflected in the Honolulu consumer price index
14	during the second quarter of 2008. Hawaii's energy costs
15	approach eleven per cent of its gross domestic product, whereas
16	in most states energy costs are four per cent of gross domestic
17	product. Between 2005 and 2008, state government consumption of

- 1 electricity increased 3.9 per cent, but expenditures increased
- 2 56.8 per cent.
- 3 Reducing our oil dependence and the consequent price
- 4 volatility and attaining energy security are critical. More
- 5 than ninety-six per cent of petroleum in Hawaii now comes from
- 6 foreign sources. Clean energy from indigenous renewable
- 7 resources has the potential to provide an estimated one hundred
- 8 fifty per cent of current installed electrical capacity.
- 9 On January 28, 2008, the signing of a memorandum of
- 10 understanding between the State of Hawaii and the United States
- 11 Department of Energy launched the Hawaii clean energy
- 12 initiative. This initiative and long-term partnership between
- 13 Hawaii and the United States Department of Energy is aimed at
- 14 accelerating the use and development of energy efficiency and
- 15 renewable energy technologies; allowing Hawaii to serve as a
- 16 model and demonstration for the United States and other island
- 17 communities; and developing a national partnership to accelerate
- 18 system transformation, whereby the following goals are attained:
- 19 (1) Achieve a seventy per cent clean energy economy for
- 20 Hawaii within a generation;
- 21 (2) Increase Hawaii's energy security;

- (3) Capture economic benefits of clean energy for all
 levels of society;
- 3 (4) Contribute to greenhouse gas reduction;
- 4 (5) Foster and demonstrate innovation;
- 5 (6) Build the workforce of the future; and
- **6** (7) Serve as a national model.
- 7 The purpose of this Act is to provide a first step in
- 8 aligning Hawaii's energy policy laws with the State's energy
- 9 goals. For Hawaii to realize energy independence and economic
- 10 stability, the transformation of its energy system must
- 11 encompass changes to:
- 12 (1) Hawaii's policy and regulatory framework;
- 13 (2) System-level technology development and integration;
- 14 (3) Financing or capital investment; and
- 15 (4) Institutional system planning.
- 16 To enable energy efficiency and renewable energy resources to
- 17 meet forty per cent of Hawaii's energy demand by 2030, the
- 18 Hawaii clean energy initiative set goals for energy efficiency,
- 19 renewable and indigenous electricity production, energy delivery
- 20 and improvements to the electrical grid, and diversification of
- 21 energy sources for transportation. The initiatives to achieve
- 22 these goals were developed by the United States Department of



1	Energy, the department of business, economic development, and
2	tourism, and members of the five Hawaii clean energy initiative
3	working groups during 2008. This effort presents a range of
4	measures to reach aggressive energy goals while balancing the
5	interests of various stakeholders.
6	PART II
7	RENEWABLE PORTFOLIO STANDARDS
8	SECTION 2. Section 269-91, Hawaii Revised Statutes, is
9	amended by amending the definitions of "renewable electrical
10	energy" and "renewable energy" to read as follows:
11	""Renewable electrical energy" means:
12	(1) Electrical energy generated using renewable energy as
13	the source; and
14	(2) Electrical energy savings brought about by [the]:
15	(A) The use of renewable displacement or off-set
16	technologies, including solar water heating, sea
17	water air-conditioning district cooling systems,
18	solar air-conditioning, and customer-sited, grid
19	connected renewable energy systems; provided
20	that, beginning January 1, 2015, electrical
21	energy savings shall not include customer-sited,
22	grid-connected renewable-energy systems; or

1	[[(3)]	Electrical energy savings brought about by the]
2		(B) The use of energy efficiency technologies,
3		including heat pump water heating, ice storage,
4		ratepayer-funded energy efficiency programs, and
5		use of rejected heat from co-generation and
6		combined heat and power systems, excluding
7		fossil-fueled qualifying facilities that sell
8		electricity to electric utility companies and
9		central station power projects.
10	"Ren	ewable energy" means energy generated or produced
11	[utilizin	g] using the following sources:
12	(1)	Wind;
13	(2)	The sun;
14	(3)	Falling water;
15	(4)	Biogas, including landfill and sewage-based digester
16		gas;
17	(5)	Geothermal;
18	(6)	Ocean water, currents, and waves[+], including ocean
19		thermal energy conversion;
20	(7)	Biomass, including biomass crops, agricultural and
21		animal residues and wastes, and municipal solid waste
22		and other solid waste;

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1	(8)	Biofuels; and
2	(9)	Hydrogen produced from renewable energy sources."
3	SECTI	ON 3. Section 269-92, Hawaii Revised Statutes, is
4	amended by	amending subsections (a) and (b) to read as follows:
5	"(a)	Each electric utility company that sells electricity
6	for consum	option in the [State] <u>state</u> shall establish a renewable
7	portfolio	standard of:
8	(1)	Ten per cent of its net electricity sales by
9		December 31, 2010;
10	(2)	Fifteen per cent of its net electricity sales by
11		December 31, 2015; [and]
12	(3)	[Twenty] Twenty-five per cent of its net electricity
13		sales by December 31, 2020[+]; and
14	(4)	Forty per cent of its net electricity sales by
15		December 31, 2030.
16	(b)	The public utilities commission may establish
17	standards	for each utility that prescribe what portion of the
18	renewable	portfolio standards shall be met by specific types of
19	renewable	[electrical] energy resources; provided that:
20	(1)	[At] Prior to January 1, 2015, at least fifty per cent

of the renewable portfolio standards shall be met by

electrical energy generated using renewable energy as

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1		the source[+], and after December 31, 2014, the entire
2		renewable portfolio standard shall be met by
3		electrical generation from renewable energy sources;
4	(2)	Beginning January 1, 2015, electrical energy savings
5		shall not count toward renewable energy portfolio
6		standards;
7	[(2)]	(3) Where electrical energy is generated or displaced
8		by a combination of renewable and nonrenewable means,
9		the proportion attributable to the renewable means
10		shall be credited as renewable energy; and
11	[(3)]	(4) Where fossil and renewable fuels are co-fired in
12		the same generating unit, the unit shall be considered
13		to generate renewable electrical energy (electricity)
14		in direct proportion to the percentage of the total
15		heat <u>input</u> value represented by the heat <u>input</u> value
16		of the renewable fuels."
17	SECT	ION 4. Section 269-95, Hawaii Revised Statutes, is
18	amended t	o read as follows:
19	"§26	9-95 Renewable portfolio standards study. The public
20	utilities	commission shall:
21	(1)	By December 31, 2007, develop and implement a utility
22		ratemaking structure, which may include performance-

1		based ratemaking, to provide incentives that encourage
2		Hawaii's electric utility companies to use cost-
3		effective renewable energy resources found in Hawaii
4		to meet the renewable portfolio standards established
5		in section 269-92, while allowing for deviation from
6		the standards in the event that the standards cannot
7		be met in a cost-effective manner or as a result of
8		events or circumstances, such as described in section
9		269-92(d), beyond the control of the utility that
10		could not have been reasonably anticipated or
11		ameliorated;
12	(2)	Gather, review, and analyze empirical data to
13		[determine]:
14		(A) Determine the extent to which any proposed
15		utility ratemaking structure would impact
16		electric utility companies' profit margins [and
17		to ensure]; and
18		(B) Ensure that the electric utility companies'
19		opportunity to earn a fair rate of return is not
20		diminished;
21	(3)	[Using] <u>Use</u> funds from the public utilities special
22		fund[7] to contract with the Hawaii natural energy

1	institute of the university of Hawaii to conduct
2	independent studies to be reviewed by a panel of
3	experts from entities such as the United States
4	Department of Energy, National Renewable Energy
5	Laboratory, Electric Power Research Institute, Hawaii
6	electric utility companies, environmental groups, and
7	other similar institutions with the required
8	expertise. These studies shall include findings and
9	recommendations regarding:
10	(A) The capability of Hawaii's electric utility
11	companies to achieve renewable portfolio
12	standards in a cost-effective manner and shall
13	assess factors such as [the]:
14	(i) The impact on consumer rates[, utility];
15	(ii) Utility system reliability and stability[$ au$
16	costs];
17	(iii) Costs and availability of appropriate
18	renewable energy resources and
19	technologies[, permitting];
20	(iv) Permitting approvals[, effects];
21	(v) Effects on the economy[, balance];

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1		(v1) Balance of trade, culture, community,
2		environment, land, and water[, climate];
3		(vii) Climate change policies[, demographics];
4		(viii) Demographics[7]; and [other]
5		(ix) Other factors deemed appropriate by the
6		commission;
7		and
8		(B) Projected renewable portfolio standards to be set
9		five and ten years beyond the then current
10		standards;
11	(4)	[Revise] Evaluate the renewable portfolio standards
12		every five years, beginning in 2013, and may revise
13	,	the standards based on the best information available
14		at the time [if the results of the studies conflict
15		with] to determine if the [renewable portfolio]
16		standards established by section 269-92[+] remain
17		effective and achievable; and
18	(5)	Report its findings and revisions to the renewable
19		portfolio standards, based on its own studies and
20		[those contracted under paragraph (3),] other
21		information to the legislature no later than twenty

1		days before the convening of the regular session of
2		$[\frac{2009}{7}]$ $\underline{2014}$, and every five years thereafter."
3		PART III
4		ENERGY RESOURCES COORDINATOR
5	SECT:	ION 5. Section 196-4, Hawaii Revised Statutes, is
6	amended to	o read as follows:
7	" §1 9	6-4 Powers and duties. Subject to the approval of the
8	governor,	the coordinator shall:
9	(1)	Formulate plans, including objectives, criteria to
10		measure accomplishment of objectives, programs through
11		which the objectives are to be attained, and financial
12		requirements for the optimum development of Hawaii's
13		energy resources;
14	(2)	Conduct systematic analysis of existing and proposed
15		energy resource programs, evaluate the analysis
16		conducted by government agencies and other
17		organizations and recommend [to the governor and to
18		the legislature] programs [which] that represent the
19		most effective allocation of resources for the
20		development of energy sources;
21	(3)	Formulate and recommend specific proposals, as
22		necessary, for conserving energy and fuel, including

1		the allocation and distribution thereof[, to the
2		<pre>governor and to the legislature];</pre>
3	(4)	Assist public and private agencies in implementing
4		energy conservation and efficiency programs, the
5		development of indigenous energy resources, and
6		related measures;
7	(5)	Coordinate the State's energy [conservation and
8		allocation] programs with [that] those of the federal
9		government, other state governments, governments of
10		nations with interest in common energy resources, and
11		the political subdivisions of the State;
12	(6)	Develop programs to encourage private and public
13		exploration [and], research, and development of
14		[alternative] indigenous energy resources [which] that
15		will benefit the State;
16	(7)	Conduct public education programs to inform the public
17		of the energy situation as may exist from time to time
18		and of the government actions taken thereto;
19	(8)	Serve as consultant to the governor, public agencies,
20		and private industry on energy-related matters
21		[related to the acquisition, utilization and
22		conservation of energy resources];

1	(9)	Contract for services when required for implementation
2		of this chapter;
3	(10)	Review proposed state actions [which] that the
4		coordinator finds to have significant effect on
5		[energy consumption] the State's energy objectives and
6		report to the governor their effect on the energy
7		[conservation] program, and perform [such] other
8		services as may be required by the governor and the
9		legislature;
10	(11)	Prepare and submit an annual report and [such] other
11		reports as may be requested to the governor and to the
12		legislature on the implementation of this chapter and
13		all matters related to energy resources; [and]
14	(12)	Formulate a systematic process, including the
15		development of requirements, to identify geographic
16		areas that are rich with renewable energy resource
17		potential that can be developed in a cost-effective
18		and environmentally benign manner and designate these
19		areas as renewable energy zones;
20	(13)	Develop and recommend incentives, plans, and programs
21		to encourage the development of renewable energy
22		resource projects within the renewable energy zones;

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1	(14)	Assist public and private agencies in identifying
2		utility transmission projects or infrastructure
3		required to accommodate and facilitate the development
4		of renewable energy resources;
5	(15)	Assist public and private agencies, in coordination
6		with the department of budget and finance, in
7		accessing the use of special purpose revenue bonds to
8		finance the engineering, design, and construction of
9		transmission projects and infrastructure that are
10		deemed critical to the development of renewable energy
11		resources;
12	(16)	Develop the criteria or requirements for identifying
13		and qualifying specific transmission projects and
14		infrastructure that are critical to the development of
15		renewable energy resources, including providing
16		assistance in accessing the use of special purpose
17		revenue bonds to finance the projects or
18		infrastructure;
19	(17)	Develop and maintain a comprehensive and systematic
20		quantitative and qualitative capacity to analyze the
21		status of energy resources, systems, and markets, both
22		in-state and those to which Hawaii is directly tied,

1		parti	cularly in relation to the State's economy, and
2		to re	ecommend, develop proposals for, and assess the
3		effec	ctiveness of policy and regulatory decisions, and
4		condu	act energy emergency planning; and
5	[(12)]	(18)	Adopt rules for the administration of this
6		chapt	ter pursuant to chapter 91[, provided that the
7		rule	s shall be submitted to the legislature for
8		revi	⊇₩]."
9			PART IV
10			RENEWABLE ENERGY FACILITATOR
11	SECT	ION 6	. Section 201-12.5, Hawaii Revised Statutes, is
12	amended b	y ame	nding subsection (b) to read as follows:
13	"(b)	The	renewable energy facilitator shall have the
14	following	duti	es:
15	(1)	Faci	litate the efficient permitting of renewable
16		ener	gy projects[+], including:
17		(A)	The land parcel on which the facility is
18			situated;
19		(B)	Any renewable energy production structure or
20			equipment;
21		<u>(C)</u>	Any energy transmission line from the facility to
22			a public utility's electricity system; and

1		(D) Any on-site infrastructure necessary for the
2		production of electricity or biofuel from the
3		renewable energy site;
4	(2)	Initiate the implementation of key renewable energy
5		projects by permitting various efficiency improvement
6		strategies identified by the department;
7	(3)	Administer the day-to-day coordination for renewable
8		energy projects on behalf of the department and the
9		day-to-day operations of the renewable energy facility
10		siting process established in [Act 207, Session Laws
11		of Hawaii 2008]; chapter 201N; and
12	(4)	Submit periodic reports to the legislature on
13		renewable energy facilitation activities and the
14		progress of the renewable energy facility siting
15		process."
16		PART V
17		RENEWABLE ENERGY PERMITTING
18	SECT	ION 7. Section 201N-1, Hawaii Revised Statutes, is
19	amended b	y amending the definition of "renewable energy
20	facility"	or "facility" to read as follows:
21	""Re	newable energy facility" or "facility" means a new
22	facility	located in the [$\frac{\text{State}}{\text{State}}$] $\frac{\text{state}}{\text{State}}$ with the capacity to

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1	produce f	rom renewable energy at least two hundred megawatts of
2	electrici	ty[-]; provided that an electricity production facility
3	with a ca	pability between five megawatts and one hundred ninety-
4	nine mega	watts of electricity and a biofuel production facility
5	with a ca	pacity to produce one million gallons or more annually
6	may apply	to the coordinator for designation as a renewable
7	energy fa	cility. The term includes any of the following
8	associate	d with the initial permitting and construction of the
9	facility:	
10	(1)	The land parcel on which the facility is situated;
11	(2)	Any renewable energy production structure or
12		equipment;
13	(3)	Any energy transmission line from the facility to a
14		public utility's electricity transmission or
15		distribution system;
16	(4)	Any on-site infrastructure; and
17	(5)	Any on-site building, structure, other improvement, or
18		equipment necessary for the production of electricity
19		or biofuel from the renewable energy site,

transmission of the electricity or biofuel, or any

accommodation for employees of the facility."

20

SECTION 8. Section 201N-4, Hawaii Revised Statutes, is 1 2 amended by amending subsection (g) to read as follows: Each appropriate state and county agency shall 3 diligently endeavor to process and approve or deny any permit in 4 the permit plan no later than twelve months after a completed 5 permit plan application is approved by the coordinator. If the 6 coordinator has given at least thirty days written notice 7 8 stating that the permit plan application is subject to this section and a permit is not approved or denied within twelve 9 10 months after approval of a completed permit plan application, the permitting agency, within thirty days following the end of 11 12 the twelve-month period, shall provide the coordinator with a report identifying diligent measures that are being taken by the 13 14 agency to complete processing and take action as soon as practicable. If no further processing and action are reported 15 16 by the permitting agency within five months following the end of the thirty-day agency report period, the coordinator may deem 17 18 the permit approved. If a permitting agency fails to provide 19 this report identifying diligent measures and if the permit has 20 not been approved or denied within eighteen months following the 21 approval of a completed permit plan application by the coordinator, the permit shall be deemed approved." 22

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SECTION 9. There is appropriated out of the renewable 1 energy facility siting special fund the sum of \$1,000,000 or so 2 3 much thereof as may be necessary for fiscal year 2009-2010 and the sum of \$1,000,000 or so much thereof as may be necessary for 4 fiscal year 2010-2011. 5 6 The sums appropriated shall be expended by the department 7 of business, economic development, and tourism for the purposes 8 of the renewable energy facility siting special fund as set forth in section 201N-11, Hawaii Revised Statutes. 9 10 PART VI 11 ENERGY EFFICIENCY 12 In January 2008, the United States Department SECTION 10. 13 of Energy and the State of Hawaii signed a memorandum of 14 understanding to strengthen cooperation to implement clean energy technologies that will increase energy-efficiency and 15

19 Initiative, is designed to transform Hawaii's energy system into

resources. The legislature finds that the establishment of this

maximize use of the State's vast and abundant renewable

long-term partnership, called the Hawaii Clean Energy

- 20 one that uses renewable energy and energy-efficient technologies
- 21 for a significant portion of its energy needs. The partnership
- 22 aims to put Hawaii on a path to supply seventy per cent of its

- 1 energy needs using clean energy by 2030, which can significantly
- 2 reduce Hawaii's current crude oil consumption. This type of
- 3 clean energy transformation will help to stabilize and
- 4 strengthen Hawaii's economy by reducing its dependency on
- 5 imported fossil fuels and protect its environment by sharply
- 6 reducing greenhouse gas emissions.
- 7 The United States Department of Energy, as a leader in
- 8 clean energy technologies, is working with the State of Hawaii
- 9 to further the potential of its natural resources, including
- 10 wind, sun, and bioenergy resources, and engage experts in clean
- 11 energy technology development to help Hawaii launch projects in
- 12 conjunction with public and private sector partners that target
- 13 opportunities and address critical needs for Hawaii's transition
- 14 to a clean energy economy, including:
- 15 (1) Designing cost-effective approaches for the exclusive
- use of renewable energy on smaller islands;
- 17 (2) Designing systems to improve the stability of electric
- grids operating with variable generating sources, such
- as wind power plants on the islands of Hawaii and
- 20 Maui;

1	(3)	Minimizing energy use while maximizing energy-
2		efficiency and renewable energy technologies at new
3		large military housing developments;
4	(4)	Expanding Hawaii's capability to use locally-grown
5		crops and by-products for producing fuel and
6		electricity; and
7	(5)	Assisting in the development of comprehensive energy
8		regulatory and policy frameworks for promoting clean
9		energy technology use.
10	Simi	lar to the establishment of a renewable energy
11	portfolio	standard, an energy-efficiency portfolio standard sets
12	a target	of electricity-use reduction to be achieved in
13	increment	al stages, as end-use energy-efficiency programs can
14	make a si	gnificant and cost-effective contribution to achieving
15	the goals	and objectives of the Hawaii Clean Energy Initiative.
16	The	purpose of this part is to maximize cost-effective
17	energy-ef	ficiency programs and technologies to achieve
18	electrici	ty-use reductions to the maximum extent feasible by
19	establish	ning an energy-efficiency portfolio standard, making
20	public bu	nildings more energy-efficient, disclosing a property's
21	energy co	onsumption at the time of sale, and establishing a

- 1 building energy efficiency revolving loan fund, to achieve
- 2 electricity use reductions to the maximum extent feasible.
- 3 SECTION 11. The Hawaii Revised Statutes is amended by
- 4 adding three new sections to be appropriately designated and to
- 5 read as follows:
- 6 "S Energy-efficiency portfolio standards. (a) The
- 7 public utilities commission shall establish energy-efficiency
- 8 portfolio standards that will maximize cost-effective energy-
- 9 efficiency programs and technologies.
- 10 (b) The energy-efficiency portfolio standards shall be
- 11 designed to achieve four thousand three hundred gigawatt hours
- 12 of electricity use reductions statewide by 2030; provided that
- 13 the commission shall establish interim goals for electricity use
- 14 reduction to be achieved by 2015, 2020, and 2025 and may also
- 15 adjust the 2030 standard by rule or order to maximize cost-
- 16 effective energy-efficiency programs and technologies.
- 17 (c) The commission may establish incentives and penalties
- 18 based on performance in achieving the energy-efficiency
- 19 portfolio standards by rule or order.
- 20 (d) The public utilities commission shall evaluate the
- 21 energy-efficiency portfolio standard every five years, beginning
- 22 in 2013, and may revise the standard, based on the best



- 1 information available at the time, to determine if the energy-
- 2 efficiency portfolio standard established by this section
- 3 remains effective and achievable. The commission shall report
- 4 its findings and revisions to the energy-efficiency portfolio
- 5 standard, based on its own studies and other information, to the
- 6 legislature no later than twenty days before the convening of
- 7 the regular session of 2014, and every five years thereafter.
- 8 (e) Beginning in 2015, electric energy savings brought
- 9 about by the use of renewable displacement or off-set
- 10 technologies, including solar water heating and seawater air
- 11 conditioning district cooling systems, shall count toward this
- 12 standard.
- 13 § Public buildings; benchmarks; retro-commissioning
- 14 guidelines; energy savings performance contracts. (a) By
- 15 December 31, 2010, each state department with responsibilities
- 16 for the design and construction of public buildings and
- 17 facilities shall benchmark every existing public building that
- 18 is either larger than five thousand square feet or uses more
- 19 than eight thousand kilowatt-hours of electricity or energy per
- 20 year and shall use the benchmark as a basis for determining the
- 21 State's investment in improving the efficiency of its own
- 22 building stock. Benchmarking shall be conducted using the

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- 1 ENERGY STAR portfolio management or equivalent tool. The energy
- 2 resources coordinator shall provide training to affected
- 3 departments on the ENERGY STAR portfolio management or
- 4 equivalent tool.
- 5 (b) Public buildings shall be retro-commissioned no less
- 6 often than every five years. The energy resources coordinator
- 7 shall establish retro-commissioning guidelines by January 1,
- **8** 2010.
- 9 (c) Departments may enter into energy savings performance
- 10 contracts with a third party to cover the capital costs of
- 11 energy-efficiency measures and distributed generation provided
- 12 the terms of the energy savings performance contracts conform to
- 13 the benchmark standard. The comptroller may review and exempt
- 14 specific projects as appropriate to take into account cost-
- 15 effectiveness.
- 16 Energy savings performance contracts shall be executed
- 17 according to state guidelines issued by the comptroller, and the
- 18 contracts shall be reviewed by the comptroller. To expedite
- 19 energy savings performance contracting for public buildings, the
- 20 department of accounting and general services shall develop a
- 21 master energy savings performance contracts agreement that any
- 22 department may use to contract with an energy savings



- performance contracts provider for energy-efficiency and
 renewable energy services.
- 3 (d) For existing public buildings that undergo a major
- 4 retrofit or renovation, the department or departments
- 5 responsible for design and construction shall make investments
- 6 in efficiency; provided that the cost of the measures shall be
- 7 recouped within twenty years.
- 8 S Energy-efficiency consumer information in sale or
- 9 lease of real property. Prior to the sale of residential real
- 10 property, the property owner shall make a good faith declaration
- 11 of electricity cost based on the most recent three-month period
- 12 in which the property was occupied prior to the date of the
- 13 seller's disclosure, pursuant to chapter 508D. This declaration
- 14 shall only apply where the owner directly pays the electrical
- 15 utility bills, and shall not apply in the case of a foreclosure
- 16 of residential real property or where there are no electrical
- 17 utility accounts associated with the property."
- 18 SECTION 12. Chapter 201, Hawaii Revised Statutes, is
- 19 amended by adding a new section to read as follows:
- 20 "§201- Building energy efficiency revolving loan fund.
- 21 (a) There is established in the state treasury the building
- 22 energy efficiency revolving loan fund which shall be

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1	administe	red by the department, and into which shall be
2	deposited	<u>:</u>
3	(1)	Funds from federal, state, county, private, or other
4		funding sources;
5	(2)	Moneys received as repayment of loans and interest
6		payments; and
7	(3)	Any fees collected by the department under this
8		section.
9	(b)	Moneys in the building energy efficiency revolving
10	loan fund	shall be used to provide low or no interest loans or
11	other aut	horized financial assistance to eligible public,
12	private,	and nonprofit borrowers to make energy efficiency
13	improveme	nts in buildings. Moneys from the fund may be used to
14	cover adm	inistrative and legal costs of fund management and
15	managemen	t associated with individual loans, to include
16	personnel	, services, technical assistance, data collection and
17	reporting	, materials, equipment, and travel for the purposes of
18	this sect	ion.
19	<u>(c)</u>	Appropriations or authorizations from the fund shall
20	be expend	led by the department. The department may contract with
21	other pub	olic or private entities for the provision of all or a
22	portion c	of the services necessary for the administration and

- 1 implementation of the loan fund program. The department may set
- 2 fees or charges for fund management and technical site
- 3 assistance provided under this section. The department may
- 4 adopt rules pursuant to chapter 91 to carry out the purposes of
- 5 this section.
- 6 (d) All interest earned on the deposit or investment of
- 7 the moneys in the fund shall become a part of the fund.
- 8 (e) The department may establish subaccounts within the
- 9 fund as necessary."
- 10 PART VII
- 11 SOLAR WATER HEATER SYSTEM
- 12 SECTION 13. It is the intent of the legislature that the
- 13 variances provided for in Act 204, Session Laws of Hawaii 2008,
- 14 (Act 204) will be rarely, if ever, exercised or granted because
- 15 the burden of proof will lie with the applicant to demonstrate
- 16 that a solar water heater system, regardless of location or
- 17 circumstance, is not cost effective in the context of a thirty-
- 18 year mortgage term. This requires the use of realistic
- 19 assumptions regarding interest rates, discount rates, inflation
- 20 rates, and the expected average cost of electricity by island
- 21 over the thirty-year period, regardless of the cost of

- 1 electricity, or of oil or other fossil fuels, at a specific
- 2 time.
- 3 The legislature finds that it is necessary to clarify the
- 4 intent of the variance provision that allows for a demand water
- 5 heater device. There is the potential that this provision may
- 6 be used to allow a developer/builder, the purchaser of a water
- 7 heating device, of a single-family dwelling, to circumvent the
- 8 policy objectives of Act 204.
- 9 In its deliberation of Act 204, the legislature found that
- 10 the installation of a solar water heater system will only occur
- 11 if the developer or builder was able to recover the cost of the
- 12 investment from the consumer, who ultimately enjoys the energy
- 13 savings. Therefore, a solar water heater mandate was necessary
- 14 to ensure that an energy savings could be realized by the
- 15 consumer, without which the housing market would be sensitive to
- 16 certain price points that do not factor in the cost-
- 17 effectiveness of energy efficiency devices that reduce the
- 18 overall energy cost of a home to benefit the consumer.
- 19 The legislature further found that retrofitting a home for
- 20 a solar water heater after it was constructed was more costly,
- 21 and that such upfront costs, despite incentives such as state
- 22 and federal tax credits and utility rebates, were substantial



- 1 barriers for the average consumer. The financial barriers can
- 2 be addressed, however, by including the installation of a solar
- 3 water heater into the purchase price and mortgage of a home,
- 4 where the cost of the system may pay for itself immediately.
- 5 Therefore, the legislature intended for a consumer to have
- 6 the option to use gas appliances with the full knowledge that
- 7 such a system may be more costly and less efficient. To obviate
- 8 any attempt to circumvent Act 204, then, the legislature intends
- 9 that if the potential variance applicant is not the party who
- 10 will ultimately pay for the energy cost consumption, then only
- 11 paragraph (1), (2), or (3) of subsection (a) in section 196-6.5,
- 12 Hawaii Revised Statutes, should apply.
- 13 Additionally, the legislature finds that the continuation
- 14 of the renewable energy income tax credit needs to remain
- 15 available for all homes built before January 1, 2010.
- 16 The purpose of this part, is to clarify the provisions of
- 17 Act 204, to carry out the legislature's intent.
- 18 SECTION 14. Section 196-6.5, Hawaii Revised Statutes, is
- 19 amended by amending subsections (a) and (b) to read as follows:
- 20 "(a) On or after January 1, 2010, no building permit shall
- 21 be issued for a new single-family dwelling that does not include
- 22 a solar water heater system that meets the standards established



- 1 pursuant to section 269-44, unless the energy resources
- 2 coordinator approves a variance. A variance application shall
- 3 only be [approved] accepted if submitted by an architect or
- 4 mechanical engineer licensed under chapter 464, who attests
- 5 that:

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- (1) Installation is impracticable due to poor solarresource;
- 8 (2) Installation is cost-prohibitive based upon a life
 9 cycle cost-benefit analysis that incorporates the
 10 average residential utility bill and the cost of the
 11 new solar water heater system with a life cycle that
 12 does not exceed fifteen years;
 - (3) A [substitute] renewable energy technology system, as defined in section 235-12.5, is [used] substituted for use as the primary energy source for heating water; or
 - (4) A demand water heater device approved by Underwriters

 Laboratories, Inc., is installed; provided that at

 least one other gas appliance is installed in the

 dwelling. For the purposes of this paragraph, "demand

 water heater" means a gas-tankless instantaneous water

 heater that provides hot water only as it is needed.

1	(b) A request for a variance shall be submitted to the
2	energy resources coordinator on an application prescribed by the
3	energy resources coordinator and shall include [, but not be
4	limited to ,] a description of the location of the property and
5	justification for the approval of a variance using the criteria
6	established in subsection (a). A variance shall be deemed
7	approved if not denied within thirty working days after receipt
8	of the variance application. The energy resources coordinator
9	shall publicize:
10	(1) All applications for a variance within seven days
11	after receipt of the variance application; and
12	(2) The disposition of all applications for a variance
13	within seven days of the determination of the variance
14	application."
15	SECTION 15. Section 235-12.5, Hawaii Revised Statutes, is
16	amended by amending subsection (a) to read as follows:
17	"(a) When the requirements of subsection (c) are met, each
18	individual or corporate taxpayer that files an individual or
19	corporate net income tax return for a taxable year may claim a
20	tax credit under this section against the Hawaii state
21	individual or corporate net income tax. The tax credit may be

claimed for every eligible renewable energy technology system

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1	that is in	nstal	led and placed in service in the [State] <u>state</u> by
2	a taxpaye	r dur	ing the taxable year. This credit shall be
3	available	for	systems installed and placed in service in the
4	[State] <u>s</u>	tate	after June 30, 2003. The tax credit may be
5	claimed as	s fol	lows:
6	(1)	Sola	r thermal energy systems for:
7		(A)	Single-family residential property for which a
8			building permit for a single-family dwelling was
9			issued prior to January 1, 2010: thirty-five per
10			cent of the actual cost or \$2,250, whichever is
11			less;
12		(B)	Multi-family residential property: thirty-five
13			per cent of the actual cost or \$350 per unit,
14			whichever is less; and
15		(C)	Commercial property: thirty-five per cent of the
16			actual cost or \$250,000, whichever is less;
17	(2)	Wind	l-powered energy systems for:
18		(A)	Single-family residential property: twenty per
19			cent of the actual cost or \$1,500, whichever is
20			less; provided that if all or a portion of the
21			system is used to fulfill the substitute
22		,	renewable energy technology requirement pursuant

1			to section 196-6.5(a)(3), the credit shall be
2			reduced by twenty per cent of the actual system
3			cost or \$1,500, whichever is less;
4		(B)	Multi-family residential property: twenty per
5			cent of the actual cost or \$200 per unit,
6			whichever is less; and
7		(C)	Commercial property: twenty per cent of the
8			actual cost or \$500,000, whichever is less; and
9	(3)	Phot	covoltaic energy systems for:
10		(A)	Single-family residential property: thirty-five
11			per cent of the actual cost or \$5,000, whichever
12			is less; provided that if all or a portion of the
13			system is used to fulfill the substitute
14			renewable energy technology requirement pursuant
15			to section 196-6.5(a)(3), the credit shall be
16			reduced by thirty-five per cent of the actual
17			system cost or \$2,250, whichever is less;
18		(B)	Multi-family residential property: thirty-five
19			per cent of the actual cost or \$350 per unit,
20			whichever is less; and
21		(C)	Commercial property: thirty-five per cent of the
22			actual cost or \$500,000, whichever is less;

- 1 provided that multiple owners of a single system shall be
- 2 entitled to a single tax credit; and provided further that the
- 3 tax credit shall be apportioned between the owners in proportion
- 4 to their contribution to the cost of the system.
- 5 In the case of a partnership, S corporation, estate, or
- 6 trust, the tax credit allowable is for every eligible renewable
- 7 energy technology system that is installed and placed in service
- 8 in the [State] state by the entity. The cost upon which the tax
- 9 credit is computed shall be determined at the entity level.
- 10 Distribution and share of credit shall be determined pursuant to
- 11 section 235-110.7(a)."
- 12 PART VIII
- 13 PUBLIC BENEFITS FEE ADMINISTRATOR
- 14 SECTION 16. Section 269-122, Hawaii Revised Statutes, is
- 15 amended by amending subsection (a) to read as follows:
- 16 "(a) The public utilities commission may contract with a
- 17 third-party administrator, to operate and manage any programs
- 18 established under section 269-121. The administrator shall not
- 19 be deemed to be a "governmental body" as defined in section
- 20 103D-104; provided that all moneys transferred to the third-
- 21 party administrator shall be comprised solely of public benefit
- fees collected pursuant to section 269-121[-] or from funds



1	provided by the federal government or by private funding
2	sources. The administrator shall not expend more than ten per
3	cent of the collected public benefits fees in any fiscal year,
4	or other reasonable percentage determined by the public
5	utilities commission, for administration of the programs
6	established under section 269-121."
7	PART IX
8	HAWAII STATE PLANNING ACT
9	SECTION 17. Section 226-18, Hawaii Revised Statutes, is
10	amended to read as follows:
11	"§226-18 Objectives and policies for facility systems
12	energy. (a) Planning for the State's facility systems with
13	regard to energy shall be directed toward the achievement of the
14	following objectives, giving due consideration to all:
15	(1) Dependable, efficient, and economical statewide energy
16	systems capable of supporting the needs of the people;
17	(2) Increased energy self-sufficiency where the ratio of
18	indigenous to imported energy use is increased;
19	(3) Greater energy security and diversification in the

face of threats to Hawaii's energy supplies and

systems; and

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T	(4)	Reduction, avoluance, or sequestration or greemouse
2		gas emissions from energy supply and use.
3	(b)	To achieve the energy objectives, it shall be the
4	policy of	this State to ensure the short- and long-term
5	provision	of adequate, reasonably priced, and dependable energy
6	services	to accommodate demand.
7	(c)	To further achieve the energy objectives, it shall be
8	the polic	y of this State to:
9	(1)	Support research and development as well as promote
10		the use of renewable energy sources;
11	(2)	Ensure that the combination of energy supplies and
12		energy-saving systems is sufficient to support the
13		demands of growth;
14	(3)	Base decisions of least-cost supply-side and demand-
15		side energy resource options on a comparison of their
16		total costs and benefits when a least-cost is
17		determined by a reasonably comprehensive,
18		quantitative, and qualitative accounting of their
19		long-term, direct and indirect economic,
20		environmental, social, cultural, and public health
21		costs and benefits;

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1	(4)	Promote all cost-effective conservation of power and
2		fuel supplies through measures, including:
3		(A) Development of cost-effective demand-side
4		management programs;
5		(B) Education; and
6		(C) Adoption of energy-efficient practices and
7		technologies;
8	(5)	Ensure, to the extent that new supply-side resources
9		are needed, that the development or expansion of
10		energy systems uses the least-cost energy supply
11		option and maximizes efficient technologies;
12	(6)	Support research, development, [and] demonstration,
13		and use of energy efficiency, load management, and
14		other demand-side management programs, practices, and
15		technologies;
16	(7)	Promote alternate fuels and <u>transportation</u> energy
17		efficiency [by encouraging diversification of
18		transportation modes and infrastructure];
19	(8)	Support actions that reduce, avoid, or sequester
20		greenhouse gases in utility, transportation, and
21		industrial sector applications;

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1	(9) Support actions that reduce, avoid, or sequester
2	Hawaii's greenhouse gas emissions through agriculture
3	and forestry initiatives; and
4	(10) Provide priority handling and processing for all state
5	and county permits required for renewable energy projects."
6	PART X
7	MISCELLANEOUS
8	SECTION 18. Statutory material to be repealed is bracketed
9	and stricken. New statutory material is underscored.
10	SECTION 19. This Act shall take effect on July 1, 2009.

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Report Title:

Renewable Energy; Energy Efficiency

Description:

Provides for and encourages renewable energy use and development, and energy efficiency, including increasing requirements for renewable energy portfolio standard, expanding duties of the energy resources coordinator, establishing energy efficiency portfolio standards, requiring energy-efficient state buildings, requiring sellers to provide electricity-cost information, and appropriating funds from the Renewable Energy Facility Siting Special Fund. (HB1464 CD1)