About the Division of Consumer Advocacy

- The Division of Consumer Advocacy ("DCA"), part of the state Department of Commerce & Consumer Affairs, represents, protects, and advances consumer interests before the Hawaii Public Utilities Commission ("PUC") and other state and federal agencies.
- The DCA assists and represents utility customers as a whole, statewide, as opposed to a single customer or select group.
- The DCA is <u>ex officio</u> a party to every PUC proceeding, pursuant to HRS § 269-51 and HAR § 6-61-62.

About the Division of Consumer Advocacy

- In Hawaii, utility companies must seek PUC approval for rate increases, major capitol improvement projects, certificates of authority to operate, company buyouts and mergers, financing, and to implement special programs, among other things.
- The DCA carefully reviews different aspects of a utility company's request to regulators to determine whether it is reasonable and in the public interest and then makes recommendations to the PUC or other regulators on behalf of consumers.
- The DCA focuses its primary review on applications filed or proceedings opened relating to electric, telecommunications, water & wastewater, synthetic natural gas, and some transportation services.

- HECO, HELCO, and MECO's ("HECO Companies") and KIUC's Distributed Generation Standby Rate and Interconnection dockets (Docket No. 2006-0497 and 2006-0498, respectively)
 - The PUC instructed electric utilities to file standby rate tariffs in the distributed generation docket (03-0371). In response to the many concerned comments made by the public about the proposed tariffs, the PUC opened these two dockets.
 - The PUC, DCA, and utilities traveled statewide in February 2007 to take public comment on the proposals of the companies.
 - DCA conducted extensive discovery in both dockets relating to the interconnection and standby components.
 - Next step: The parties in both dockets have engaged in serious settlement discussions, and appear optimistic about the potential to agree upon resolution of most (if not all) of the issues. A status conference in the HECO Companies' standby docket is scheduled for January 18, 2008 and an evidentiary hearing for February 2008. Oral argument in the KIUC docket is scheduled for February 2008.

- PUC's investigation into Competitive Bidding (Docket No. 03-0372)
 - During the competitive bidding docket, DCA recommended that competitive bidding can and should be established without further delay, since such mechanism can: (a) expand the resource options considered in meeting an identified need; (b) create an opportunity for consumer savings by imposing price competition; and (c) improve the responsiveness of utility resource plans to achieve environmental, fuel diversity, and other public policy goals.
 - The PUC established a competitive bidding framework in Decision and Order No. 23121 (December 8, 2006).
 - The PUC later approved the list of independent observers, the code of conduct for the HECO Companies, and the interconnection and upgrade tariffs.
 - Two new dockets were recently opened to address the first competitive bidding processes:
 - Docket No. 2007-0331

 HECO's proposal to acquire 100 MW of non-firm renewable energy on Oahu and
 - Docket No. 2007-0403 MECO's proposal to acquire two increments of 25 MW of firm generating capacity on Maui.

- Rate cases filed by HECO (Docket No. 05-0315), HELCO (Docket No. 2006-0386), and MECO (Docket No. 2006-0387)
 - In 2007, the PUC issued interim decisions and orders in all three rate cases.
 - Next step: The parties are determining what amendments, if any, should be made to the HECO Companies' fuel adjustment clauses to comply with Act 162, SLH 2006, and will file such statements of position or other filings with the PUC.

- PUC's net energy metering ("NEM") investigative docket (Docket No. 2006-0084)
 - DCA Recommended:
 - Increasing the maximum size of the NEM generator qualifying for a NEM arrangement from 50 kW to 100 kW for the HECO Companies and keeping the maximum size of the NEM generator qualifying for a NEM arrangement at 50 kW for Kauai Island Utility Cooperative ("KIUC").
 - Increasing the total rated generating capacity produced by eligible customer-generators to 1% of peak demand for KIUC and the HECO companies.
 - Considering whether the two thresholds (customer-generator size and system peak) should be increased in each company's integrated resource planning docket to ensure regular review of the limits on a system-by-system basis.
 - Next step: Final decision making by the PUC.

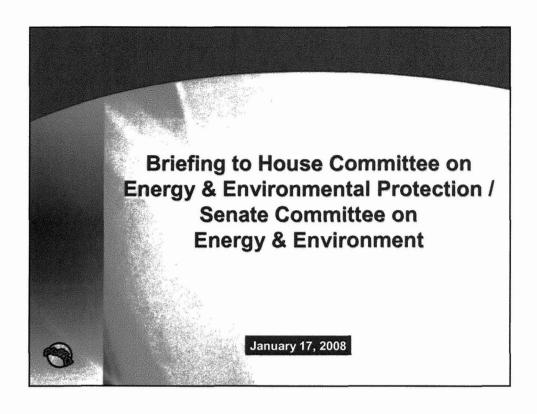
- Investigation into the major power outages that occurred on the islands of Oahu, Maui, and Hawaii (Docket No. 2006-0431)
 - The DCA filed a statement of position with the PUC on August 24, 2007, requesting that the PUC order:
 - The HECO Companies to formalize their training programs for plant and system operators to include more formalized training, practiced simulation, certification, re-qualification and record keeping;
 - HECO to evaluate and pursue providing additional black start capability on its system. In particular, the DCA recommended that HECO consider providing a second site for power restoration capability, such as by adding a black start diesel generator set to its Waiau 9 and 10 combustion turbines; and
 - HECO to develop and commence a long-term program to implement Supervisory Control and Data Acquisition ("SCADA") control on existing distribution breakers, and the HECO Companies to implement a standard requiring SCADA control for all new distribution breakers that are installed on all three islands.
 - Next step: The HECO Companies are responding to the DCA's claim that the HECO Companies' training programs need more formalization. Thereafter, the proceeding will be ready for decision making.

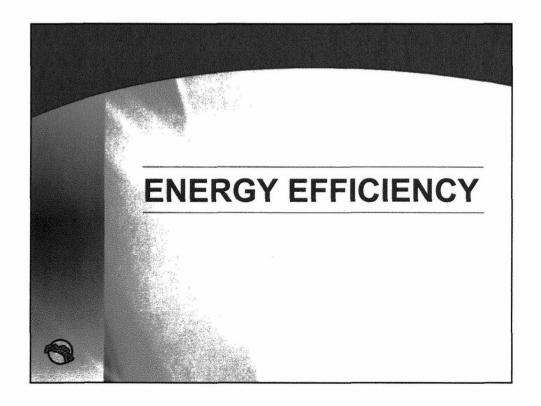
- PUC's Renewable Portfolio Standard docket (Docket No. 2007-0008) and Renewable Energy Infrastructure Surcharge docket (Docket No. 2007-0416)
 - On January 11, 2007, the PUC opened an investigative docket to examine Hawaii's Renewable Portfolio Standards law, as amended by Act 162, SLH 2006.
 - DCA recommended:
 - Adoption of a proposed penalty framework and
 - Implementation of a proposed renewable energy infrastructure surcharge on a pilot basis with certain limitations
 - On December 20, 2007, the PUC issued a Decision and Order, which approved the penalty provision of the framework submitted by a majority of the parties, required additional information about the penalties for noncompliance with the RPS, and opened a new docket to examine the renewable energy infrastructure surcharge.
 - Next step: The DCA will submit a statement of position addressing the penalty provision on or before January 31, 2008 and will await further instruction from the PUC on the new surcharge docket.

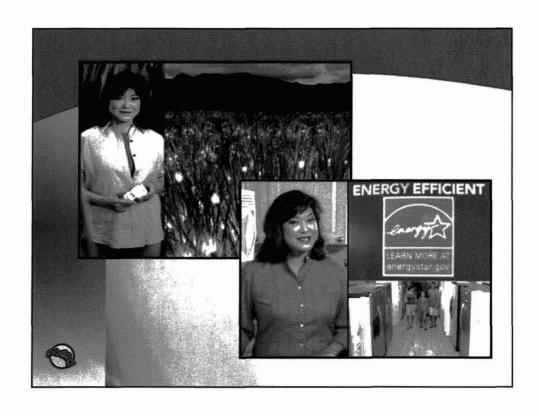
- The PUC's investigation of the issues and requirements raised by Hawaii's Public Benefits Fund law, Part VII of Chapter 269, HRS (Docket No. 2007-0323)
 - On February 13, 2007, the PUC issued Decision and Order No.
 23258. By the Decision and Order, the PUC, among other things:
 - Ordered that the HECO Companies' energy efficiency and demandside management programs shall transition from the HECO Companies to a public benefits fund administrator by January 2009 (the HECO Companies' load management programs were excluded from the third-party administrator's area of responsibility); and
 - Instructed that a new docket will be opened to select a public benefits fund administrator and to refine details of the new market structure
 - Next step: In December 2007, the PUC determined the parties for the proceeding. The parties are awaiting further instruction from the PUC relating to a request for proposal to select the public benefits fund administrator and the procedural schedule.

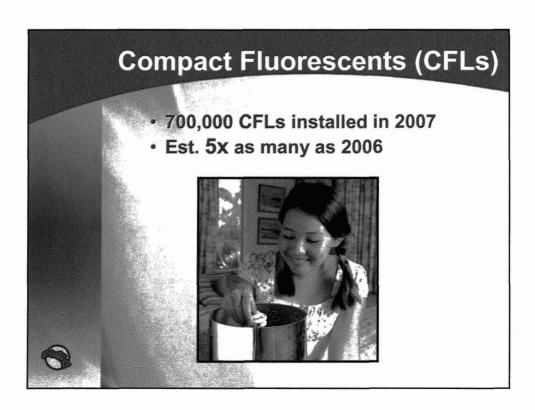
DCA's Reorganization

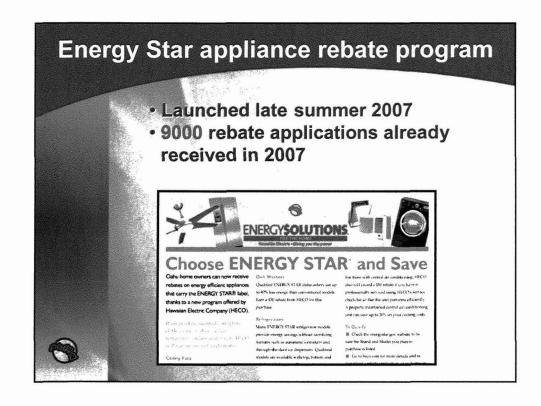
• At the end of 2007, DCA received approval of its reorganization plan, which provides for more position description and classification flexibility, and assists the DCA's ability to hire, retain, and compensate employees. Act 183, SLH 2007, which provided for the reorganization of DCA, was critical to providing DCA and the reviewing state departments with guidance.

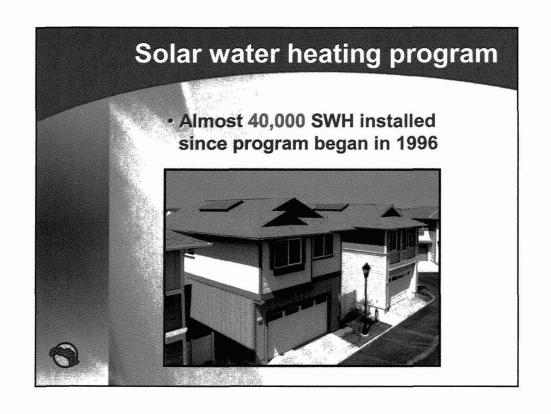






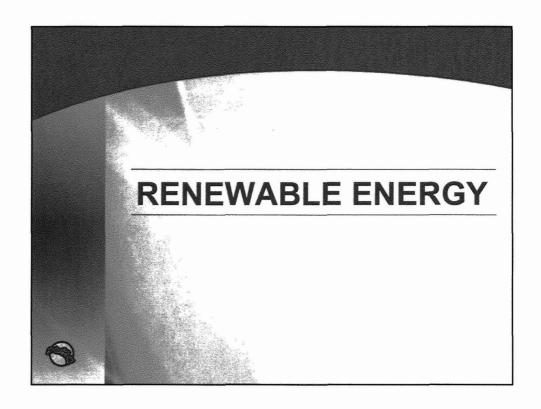




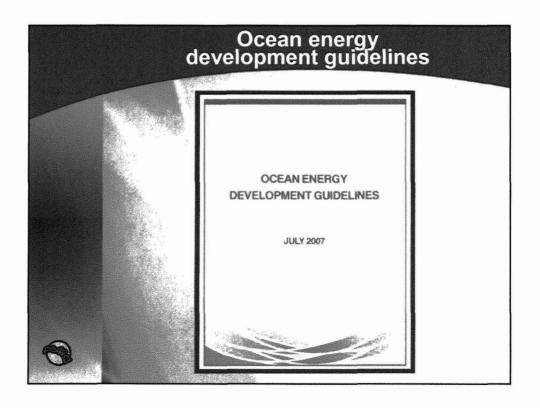


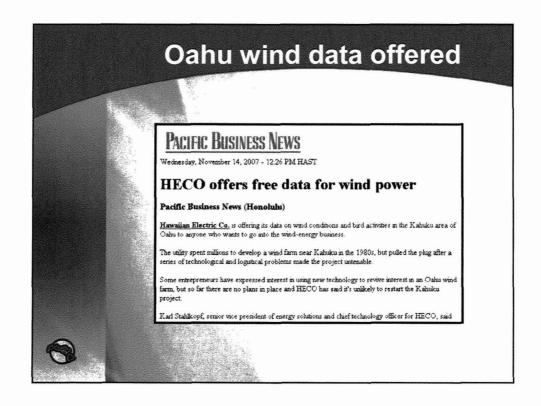
Savings from HECO, HELCO, MECO energy conservation programs

• Megawatts saved: 103 MW
• Annual CO2 savings: 400 million tons



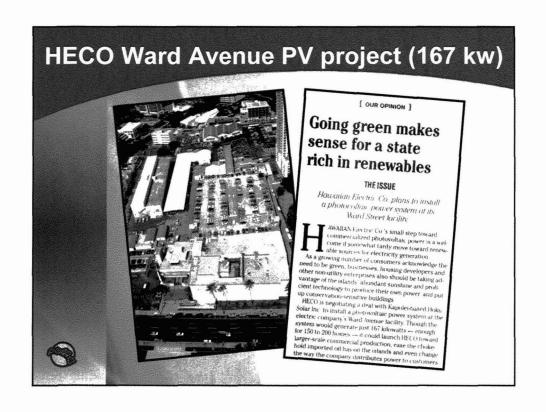
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k, st	HECO	HELCO	MECO	TOTAL	Percent
Electrical Energy General	ed Using Renewal	le Energy Sources	orania canana de la constitución de	AC SUTER TOURS OF THE PROPERTY OF THE PARTY OF	
H-POMER	339			339	
Municipal Solid Waste - AES'	56			56	
PGV		212		212	
Hydro-Waluku		31		31	
Hydro-HELCO ovvned		24		24	
HRD		23		23	
Wind - Latertalo Wetts		1		1	
Small Hydro		1		1	
Other Wind including Karaaca		1		1	
Biomass & Hydro-HC8S ²			79	79	
KWP			57	57	
Biodesel			0.2	0,2	
Photovoltaic Systems	0.5	2.2	0.7	3,4	
Subtotal	396.5	0 295.2	0 1369	0 827.6	59.29
Electrical Energy Savings	Using Renewable	Displacement Tech	nologies		
Solar Wister Heating ³	58	11	26	95	
Subtotal	58	0 11	0 26	0 95	5.89
Electrical Energy Savings	Usina Renewable	Energy Sources and	d Renewable Displac	ement Technolos	ies
Subtotal	454	0 306	0 163	923	66.01
Electrical Energy Savings	Heina Fantau Effic	ianov Tackuslasias			
Pre-2006 Parlioparts	292	49	77	418	
2006 Personants	48	5	5	58	
Subtotal	340	54	82	476	34.09
TOTAL	794	360	245	1399	100.03
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TOTAL SALES (GWh)	7,701	1,149	1,266	10.116	
RPS PERCENTAGE	10.3%	31 3%	19.3%	13,8%	

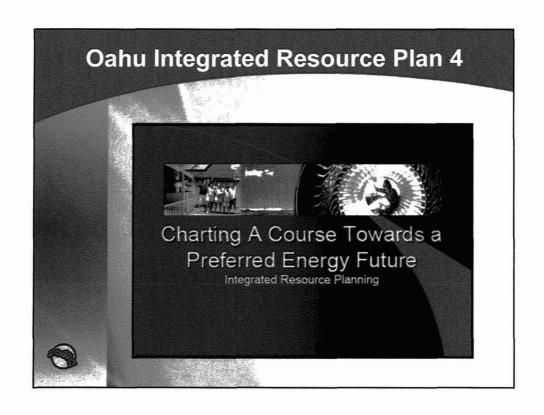


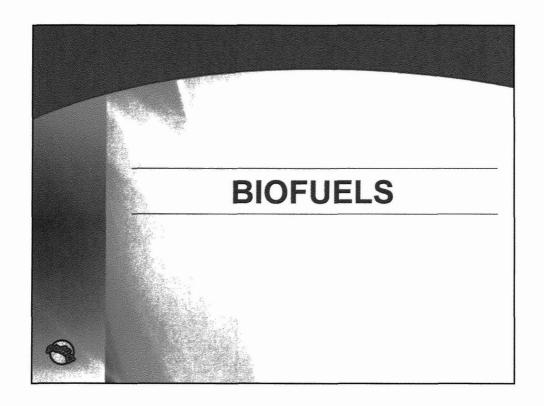


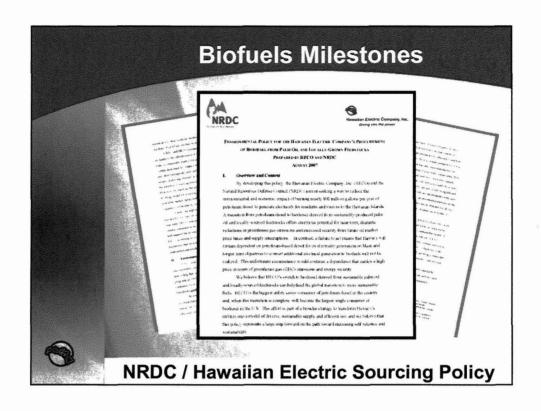


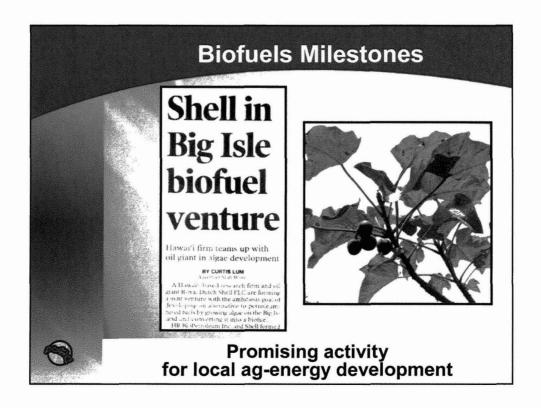


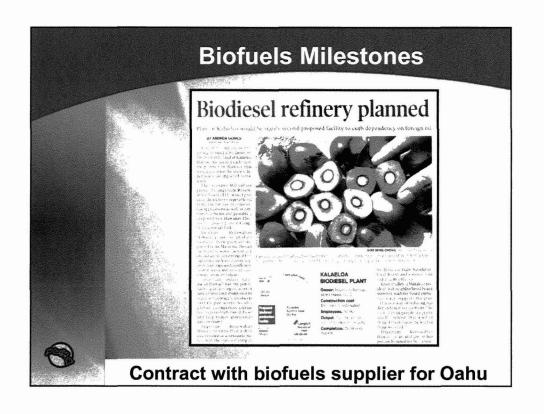


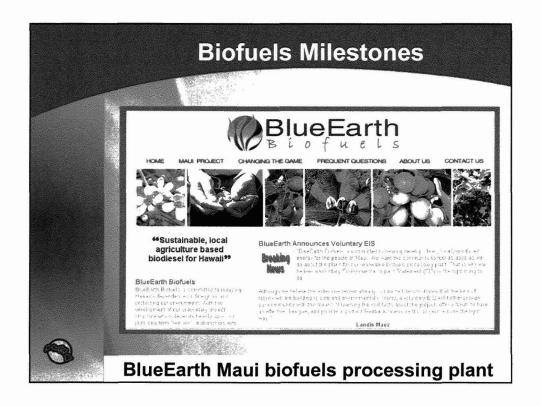


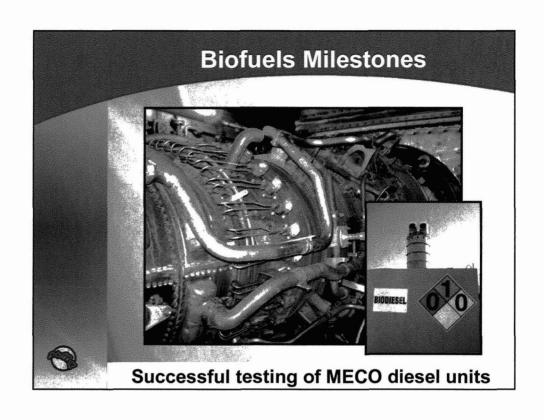


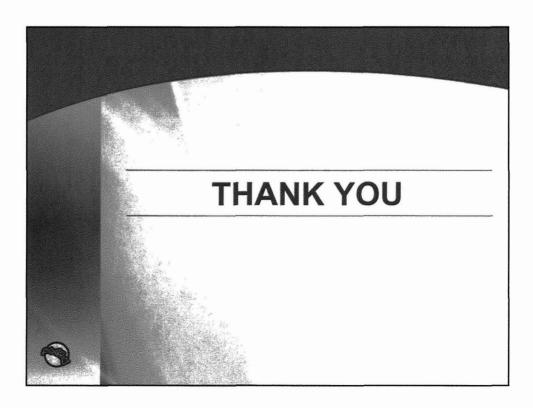












MAZIE K. HIRONO
2ND DISTRICT, HAWAI'I

COMMITTEE ON TRANSPORTATION AND INFRASTRUCTURE

SUBCOMMITTEE ON WATER RESOURCES AND ENVIRONMENT

SUBCOMMITTEE ON AVIATION

SUBCOMMITTEE ON HIGHWAYS AND TRANSIT

COMMITTEE ON EDUCATION AND LABOR SUBCOMMITTEE ON HIGHER EDUCATION, LIFELONG LEARNING, AND COMPETITIVENESS

SUBCOMMITTEE ON EARLY CHILDHOOD, ELEMENTARY AND SECONDARY EDUCATION

HOUSE DEMOCRACY ASSISTANCE COMMISSION

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Following is a synopsis of the energy package that passed last year as well as energy priorities that will be tackled in 2008.

Passage of H.R. 6

Congress passed H.R. 6, the Energy Independence and Security Act, on December 18, 2007. The President signed this bill into law the next day. H.R. 6 is a comprehensive energy package with provisions designed to increase energy efficiency and the availability of renewable energy. Highlights of key provisions enacted into law are as follows:

- Corporate Average Fuel Economy (CAFE) Standards: The law sets a target of 35 mpg for the combined fleet of cars and trucks by model year 2020. In addition, a fuel economy program is established for medium- and heavy-duty trucks, and a separate fuel economy standard is created for work trucks.
- Renewable Fuels Standard (RFS): The law sets a modified standard that starts at 9 billion gallons in 2008 and rises to 36 billion gallons by 2022. Of the latter total, 21 billion gallons is required to be obtained from cellulosic ethanol and other advanced biofuels.
- Energy Efficiency Equipment Standards: The adopted bill includes a variety of new standards for lighting and for residential and commercial appliance equipment.

Energy efficiency standards are set for broad categories of incandescent lamps (light bulbs), incandescent reflector lamps, and fluorescent lamps. A required target is set for lighting efficiency, and energy efficiency labeling is required for consumer electronic products. Also, efficiency standards are set by law for external power supplies, residential clothes washers, dishwashers, dehumidifiers, refrigerators, refrigerator/freezers, freezers, electric motors, residential boilers, and commercial walk-in coolers and freezers. The DOE is directed to set standards for furnace fans and battery chargers.

• Repeal of Oil and Gas Tax Incentives: The enacted law includes repeal of two tax subsidies in order to offset the estimated cost to implement the CAFE provision.

Excluded Provisions

Two controversial provisions of H.R. 6 that were not included in the enacted law were the proposed Renewable Energy Portfolio Standard and most of the proposed tax provisions, which included repeal of tax subsidies for oil and gas and new incentives for energy efficiency and renewable energy.

- Renewable Energy Portfolio Standard (RPS): Under an RPS, electric utilities must provide a minimum amount of electricity from renewable energy resources or purchase tradable credits that represent an equivalent amount of renewable energy production. The minimum requirement is often set as a percentage share of a supplier's total retail electricity sales. An amendment to H.R. 6 passed by the House on December 6, 2007, proposed a national RPS target that aimed to reach 15 percent of total electricity sales by 2020. Up to 4 percentage points could be met with energy efficiency measures. This provision was stripped by the Senate and was not included in the final version of the bill.
- Energy Tax Subsidies: The House also passed an amendment to H.R. 6 that would have repealed about \$22 billion of oil and gas subsidies designed to offset the cost of supporting the energy efficiency and renewable energy tax incentives, including a four-year extension of the renewable energy electricity production tax credit. Most of the provisions were stripped by the Senate and were not included in the final bill. However, enough tax revenue offsets were included to cover the estimated cost of the CAFE provision.

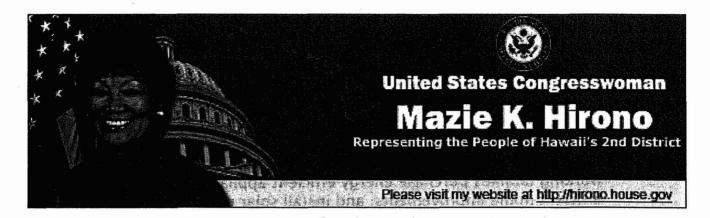
Democratic Priorities in 2008

In 2008, Democrats plan a second push for a renewable energy mandate on utilities (RPS) and an extension of tax incentives for wind and solar power. House Democrats have been strategizing with leadership on how to advance the RPS mandate this year, probably as a standalone bill.

Alternative energy advocates in Congress will also push for extensions to the solar and wind energy tax credits scheduled to expire at the end of 2008. Efforts to include these extensions in the new energy law (H.R. 6, which became PL 110-140) failed, when the Senate came up a single vote short of the 60 votes needed to end debate on the provision. Critics objected to offsetting the tax credits by rolling back tax breaks for oil and gas companies.

Opposition to the RPS is led primarily by senators representing Southeastern states, who argue that their region lacks the resources to affordably meet the mandate. GOP leaders have expressed doubts that supporters can muster the 60 votes needed to break a filibuster without including nuclear energy and "clean" coal as permissible alternative sources. The White House has also opposed what it calls a "one-size-fits-all" renewable electricity standard, contending that it "ignores the specific energy and economic needs of individual states." Many states, including Hawaii, have moved ahead with their own mandates.

Extending the alternative energy tax incentives also faces challenges. Lobbyists state that there is no clear legislative vehicle for the plan, and Democrats will still have to find revenue offsets according to "pay-as-you-go" budget rules. Even so, some Democrats say splitting the RPS and tax credits off from broader energy legislation improves their chances for passage.



ENERGY

Achieving Energy Independence

As your representative, I am committed to helping our nation towards energy independence. We will strengthen our national security by reducing our dependence on foreign oil. By employing new technology we can lower energy costs and have greater efficiency. We must shift to cleaner energy to reduce global warming. Hawaii has significant potential for clean, alternative energy sources including solar, wind and ocean energy.

- 1. Reduce our dependence on foreign oil: I am working with my colleagues in Congress to lead us on a path to energy independence.
 - ✓ Repeal Big Oil giveaways to invest in clean energy: I voted for a measure that repeals \$23 billion in tax subsidies and royalty relief provisions for Big Oil companies given during an era of record profits. The bill, which passed the House, closes a tax loophole for these companies and promotes improved accountability for companies that drill for oil and gas on federal lands.
 - ✓ Provide tax incentives to support alternative energy: I supported an initiative that ends a tax incentive for businesses to purchase gasguzzlers, establishes a \$4,000 plug-in hybrid vehicle tax credit, extends existing tax credits for the production of renewable energy, and creates new incentives for the use and production of renewable energy.
 - ✓ **Boost production of home-grown alternative fuels:** The House passed a measure that includes grants and tax incentives to boost production of biofuels and cellulosic ethanol. The measure also assists with the installation and conversion of E-85 fuel pumps and the production of flex-fuel vehicles running on renewable fuel.

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- 2. Lower energy costs and improve efficiency: We have passed legislation that includes landmark energy efficiency provisions which will reduce energy costs for consumers and businesses through more energy efficient appliances, require more efficient lighting and "green" buildings in the federal and private sector, and speed up Energy Department action on new efficiency standards.
 - ✓ Assist families with energy efficiency: I voted for a measure that helps states implement low-interest loan and grant programs to help working families purchase energy-efficient appliances, make energyefficient home improvements, and install solar panels, small wind turbines, and geothermal heat pumps.
 - ✓ Aid small businesses in energy cost reduction: I voted in support of legislation that provides technical assistance to small businesses to reduce energy costs, increases loan limits to help small businesses develop energy efficient technologies and purchases, and increases investment in small firms developing renewable energy solutions.
- 3. Reduce global warming. Congress is helping to protect our planet by passing initiatives that target climate change.
 - ✓ Fund climate change research: We passed legislation that bolsters research on solar, geothermal, and marine renewable energy. This legislation also establishes a comprehensive coastal and ocean observation system that will greatly enhance our ability to monitor and predict climate change and its effects on our oceans, coasts, and Great Lakes.
 - ✓ Promote federal leadership: As the federal government is the largest energy consumer in the U.S., we passed legislation that requires federal government operations to be carbon-neutral by 2050, with annual government-wide emissions targets. This will save taxpayers \$7.5 billion through 2030.
 - ✓ Mitigate the effects of global warming on wildlife: I voted in support
 of legislation that ensures the development of a national strategy to
 assist wildlife populations and their habitats in adapting to the impacts
 of climate change. This bill, which passed the House, also provides
 states with new funding to assist wildlife in adapting to global warming.

Congresswoman Mazie K. Hirono ✓ <u>www.hirono.house.gov</u> ✓ 541-1986 5104 Prince Kuhio Federal Building, Honolulu HI, 96850

Stay informed about the work Mazie is doing in Hawaii and Washington by signing up for MaziEmail at http://hirono.house.gov/email_signup.html

Congresswoman Mazie K. Hirono - Bills Cosponsored As of January 17, 2008

ENERGY

H.R. 6, Energy Independence and Security Act of 2007

Sponsor: Rep Rahall, Nick J., II [D-WV-3] (introduced 1/12/2007)

Cosponsors: 198

Latest Major Action: Became Public Law No: 110-140

Note: Omnibus energy legislation.

H.R. 197, To amend the Internal Revenue Code of 1986 to provide a 5-year extension of the

credit for electricity produced from certain renewable resources. Sponsor: Rep Pomeroy, Earl [D-ND] (introduced 1/4/2007)

Cosponsors: 130

Latest Major Action: Referred to the House Committee on Ways and Means.

H.R. 539, Buildings for the 21st Century Act

Title: Buildings for the 21st Century Act

Sponsor: Rep Schwartz, Allyson Y. [D-PA-13] (introduced 1/17/2007)

Cosponsors: 144

Latest Major Action: Referred to the House Committee on Ways and Means.

H.R. 550, Securing America's Energy Independence Act

Sponsor: Rep McNulty, Michael R. [D-NY-21] (introduced 1/18/2007)

Cosponsors: 118

Latest Major Action: Referred to the House Committee on Ways and Means.

H.R. 969, To amend title VI of the Public Utility Regulatory Policies Act of 1978 to establish a federal renewable energy portfolio standard for certain retail electric utilities, and for other purposes.

Sponsor: Rep Udall, Tom [D-NM-3] (introduced 2/8/2007)

Cosponsors: 160

Latest Major Action: Referred to the House Energy and Commerce Subcommittee on Energy and Air Quality.

H.R. 1252, Federal Price Gouging Prevention Act

Sponsor: Rep Stupak, Bart [D-MI-1] (introduced 2/28/2007)

Cosponsors: 125

Latest Major Action: Received in the Senate; read twice and referred to the Committee on

Commerce, Science, and Transportation.

H.R. 1300, Program for Real Energy Security Act

Sponsor: Rep Hoyer, Steny H. [D-MD-5] (introduced 3/1/2007)

Cosponsors: 110

Latest Major Action: Referred to the House Armed Services Subcommittee on Terrorism,

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Unconventional Threats and Capabilities. where in the will appoint elected to the member

H.R. 1506, Fuel Economy Reform Act

Sponsor: Rep Markey, Edward J. [D-MA-7] (introduced 3/13/2007)

Cosponsors: 153

Congresswoman Mazie K. Hirono – Bills Cosponsored

As of January 17, 2008

Latest Major Action: 3/14/2007 Referred to House Energy and Commerce Subcommittee on Energy and Air Quality.

H.R. 1551, Healthy Farms, Foods, and Fuels Act of 2007 Sponsor: Rep Kind, Ron [D-WI-3] (introduced 3/15/2007)

Cosponsors: 125

Latest Major Action: Referred to the House Education and Labor Subcommittee on Healthy

Families and Communities.

H.R. 2036, Marine and Hydrokinetic Renewable Energy Promotion Act

Sponsor: Rep Inslee, Jay [D-WA-1] (introduced 4/25/2007)

Cosponsors: 21

Latest Major Action: Referred to the House Science and Technology Subcommittee on Energy

and Environment.

H.R. 2215, To provide a reduction in the aggregate greenhouse gas emissions per unit of energy consumed by vehicles and aircraft, and for other purposes.

Sponsor: Rep Inslee, Jay [D-WA-1] (introduced 5/8/2007)

Cosponsors: 22

Latest Major Action: Referred to the House Energy and Commerce Subcommittee on Energy

and Air Quality.

H.R.2715, To amend the Internal Revenue Code of 1986 to include heavier vehicles in the

limitation on the depreciation of certain luxury automobiles.

Sponsor: Rep Blumenauer, Earl [D-OR-3] (introduced 6/14/2007)

Cosponsors: 18

Latest Major Action: Referred to the House Committee on Ways and Means.

H.R.2966, Plug-in Hybrid Opportunity Act of 2007

Sponsor: Rep Markey, Edward J. [D-MA-7] (introduced 7/10/2007)

Cosponsors: 15

Latest Major Action: Referred to the House Committee on Ways and Means.

H.R.3105, Ocean Thermal Energy Tax and Energy Credits Act of 2007

Sponsor: Rep Faleomavaega, Eni F.H. [D-AS] (introduced 7/19/2007)

Cosponsors: 4

Latest Major Action: Referred to the House Committee on Ways and Means.

H.R. 3107, Renewable Energy Tax Parity Act of 2007

Sponsor: Rep Hodes, Paul W. [D-NH-2] (introduced 7/19/2007)

Cosponsors: 18

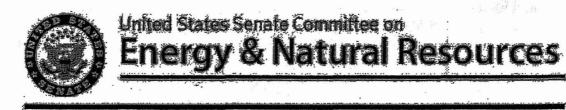
Latest Major Action: Referred to the House Committee on Ways and Means.

H.R.3807, Renewable Energy Assistance Act of 2007

Sponsor: Rep Giffords, Gabrielle [D-AZ-8] (introduced 10/10/2007)

Cosponsors: 32

Latest Major Action: Referred to the House Committee on Ways and Means.



The Energy Independence and Seconty Act of 2007

Raises fuel economy standards for curs, trucks, and SUVs for the first time since 1975, increases the renewable fuel standard to 36 billion gallons by 2022. H.R. 6 also contains the most important energy efficiency increase in American history by enacting national efficiency standards for light bulbs.

CAFE

Congress has not introduced an increase in first economy standards for passenger cars; since 1975. H.R. & will require the National Highway Traffic Safety Administration to increase the average fleet fiel economy standards for cars and light tracks to 15 miles per gallon by 2020. The provision that increases CATE standards is supported by a wide range of groups including anto manufacturers, labor, and environmental groups.

Increases fuel economy standards for all vehicles

- * Beginning in 20:11, the National Highway Traffic Safety Administration (SHTSA) annually increase the nationwide everage fleet first economy standard for cars and light tracks to achieve a standard of 35 miles per gallon by 2020. This will be the first statutory fuel economy increase for passenger cars since 1975.
- For the years 2021-2030, carried light mack fuel economy standards would increase at the maximum feasible rate.
- For the first time, NHTSA would establish a program for medium and heavy duty tracks under which first economy standards would improve at the maximum feasible rate.
- NHTEA would establish a separate fuel economy standard for work trucks that would increase their fuel efficiency at the maximum feasible rate.

Ensures fuel économy standards will be réached

 E.R. 6 would eliminate the off-ramp, which ensures that NFITSA will mandate a fuel economy standard of 15 map by 2020. H.K. 6 would eliminate the low volume manifecturer exception, which would have allowed any company that sells less than approximately 64,000 cars and tracks a year in the United States to be exempt from the

25 mpg requirement by 2020 first economy standard.

Includes labor protections

H.R. 6 Inserts domestic our production rules that the United Auto Workers
believes will keep workers employed in U.S. manufacturing facilities.

Provides manufacturer flexibility

* ILR. 6 would extend the flexible finel vehicle (FFV) credit, but taper it so that it is phased out according to the following schedule:

2014: 1.2 mpg

2012: 1.2 mpg

2013: 1,2 mpg

2014: 1.2 mpg

2015: 1.0 mpg

2016: 0.8 mpg

2017: O.S. mpg

2018: 0.4 mpg

2019: 0.2 mpg

2020: 0 mpg

- B20 brodiesel capable cars would be considered dual-fueled vehicles and climble for the EFV credit.
- NHTSA would use an attribute system with two separate ourses (cars and light tracks) in determining an overall fuel economy average of 35 mpg by 2020.
 Using this authority, NHTSA would be able to tailor attainable fuel economy standards based on the physical attributes of particular models of cars and light tracks.
- H.R. 6 would give manufacturers the ability to trade extra fuel economy credits carned between the passenger car and light track fleets when the performance of aither fleet exceeds the standards. The amount of credit moded would be limited.

 Automakers would have the flexibility to bonow against future fuel economy gains for up to three years in the future and to carry forward earned fuel economy credits earned for up to five years.

Increases consumer information.

- Automakers would be required to provide clearer fuel economy and emissions information to consumers. A label would be prominently placed on each vehicle that includes information on the first economy of the automobile and the greathouse gas and other emissions consequences of operating the automobile over its likely useful life.
- II.R. 6 would improve consumer information on the fact efficiency, safety, and durability, and increase consumer awareness of flexible fuel automobiles.

Saves American consumers money and creates jobs.

- By 2020, the new find recommy standards are expected to save 1.1 million barrels
 of oil per day, a savings that will continue to increase in subsequent years.
- By 2020, the standards are expected to remove 192 infilion metric tons of global warming pollution in that year alone, a savings that will continue to instead in subsequent years. That is the equivalent of taking approximately 28 million cars off the road.
- By 2020, the similards are estimated to save consumers \$22 billion in her
 consumer savings in that year alone, a savings that will continue to increase in
 subsequent years.
- By 2020, assuming that gas prices remain at \$3,00 and a vehicle travels 15,000 miles a year, a faintly with two cars would save up to \$1,000 in gasoline costs.
 (See appendix A for a state by state projected consumer savings and job creation numbers).

Renewable Fuel Standard

H.R. 6 would expand the renewable facts standard to 9-billions gallons in 2008 and progressively increase it to a 36-billion gallon requirement by 2022. Additionally, H.R. 6 makes a historic commitment to develop collulosic ethanol by requiring that by 2022 the United States produce 21 billion gallons of advanced biofucls, like cellulosic ethanol.

The growth and development of renewable fuels can help solve America's long-term energy and national scourity problems. Today, the most recently available statistics indicate that the United States produced approximately 5 billion gallons of other over 130 ethanol plants.

Economic growth. Increasing the renewable fuels standard is a critical component in helping to expand and diversity must economics. The construction and operation of a 100 million gation ethanol plant woulds

- · Provide \$150 million in capital construction investment:
- Greate \$70 million to the focal economy during construction;
- Expand the local economic base by \$233 million each year,
- Create 45 "direct jobs" plus 101 "indirect jobs" throughout the area;
- Raise household incomes by \$7.9 million annually;
- * Generate millions more in increased local, state, and federal lax revenues;
- Raise grain prices raised by 5 to 10 cents per bushel; and
- Increase tax revenues of \$5.2 million annually.

Renewable fuels infrastructure and flex fuel vehicles. The new renewable fuel standard would also help to spur the development of a renewable fuel infrastructure. Like additional E-85 stations. Due to inadequate renewable fuels infrastructure, many states lack the ability to bring the benefits of enhanced ethanol, like E-85, to consumers who have purchased vehicles that sun on E-85.

For instance, while Louislana has more than 92,000 flex fuel vehicles on its needs, the state has only a single B-85 fueling site. Nationwide, there are only 1,261 public service stations that sell E85 out of 170,000 service stations. (See appendix C for a state-by-state analysis of flex fuel cars and public E-85 stations).

National Efficiency Standards for Light Bulbs

H.R. 6 contains a set of actional citicioncy standards for light bulbs which represent the most important energy efficiency improvement in American history. The first part of the new energy efficiency standard would effectively phase out most common types of incandescent light bulbs by 2012-2014 by increasing the energy efficiency standards of light bulbs by 30 percent. The new standard would be technology-neutral, allowing consumers a choice among several efficient lighting technologies, including improved histogen-incandescent bulbs, compact fluorescent lamps and eventually light-emitting diodes and other advanced lighting technologies. In 2020, a second set of standards would be established that could at least double the 65 billion kilowatt hours of electricity saved under the first set of standards (depending on now much of the market has shifted to compact fluorescent light bulbs).

Consumer, energy, and environmental savings. Within the 18 months after full implementation of the first energy efficiency standard analysts estimate savings of more than 65 billion kilowatt hours of electricity. An annual savings of 65 billion kilowatt hours of electricity would be nearly as large as combined savings from all federal appliance standards adopted from 1987 to 2000 (88 billion kilowatt hours ner year). Savings from this one standard are also two to fines times larger than savings from any other single appliance standard, including the 1997 refrigerator standard, the 2001 clothes washer standard, and the 2001 central air conditioner standard.

the single largest consumer of energy in the United States. In 2005, the federal government spent \$14.5 billion on obergy, \$3.6 billion of that amount went toward heating, cooling, and powering more than 500,000 federal buildings.

II.R. 6 calls for a 30 percent reduction in energy consumption by 2015 in federal buildings which would save approximately 60 fullion BTUs of energy, 15 million metric tens of carbon dioxide, and almost \$4 billion in tempayers' money.

Geothermal Energy

Today, the United States generates more than 2:800 megawaits of geofficernal energy and another 2,300 megawaits are in development. The development of geofficernal energy arross the country can help stabilize electricity and natural gas prices for consumers while producing new and high-paying jobs across rural America. Unfortunately, the Bosh Administration has in recent years been targeting the Department of Energy's geofficinal research and development programs for elimination.

H.R. 6 would invest in the promise of geothermal energy. With advances in technologies and sensible tax policies approximately 5,300 megawats of geothermal energy could come online and he brought to market. H.R. 6 aims to realize that potential by:

- * Expanding funding for cost-shared drilling.
- Developing the commercial application for Engineered Geothermal Systems (EGS) techniques;
- Mandating a national geothermal energy resource assessment, and
- Creating a national exploration and development technology and information center.

The near-term savings from the standard are estimated to be \$6 billion a year. The first part of the new standard will also avoid emitting about 13 million metric tons of carbon dioxide, which is equivalent to approximately 24 new eval plants that each produce 500 megawatts of electricity. The second set of standards, effective in 2020, could at least double the initial savings of 65 billion kilowatt hours of electricity.

Carbon Capture Technology

Carbon capture technology is one of the technological improvements that will help address the challenge of global warming by capturing or confining carbon diexide emissions from power plants and sequestering them within the earth. Carbon capture technology has the potential to play an important part in minigating against the threats of climate change. Under today's regulatory framework, the Energy Information Administration projects that U.S. carbon emissions will increase by more than one percent annually to at least 2030. Additionally, the Intergovernmental Panel on Climate Change, the criment annually to accomplicate carbon diexide concentration is approximately 380 parts permillion volume and increasing are rate of approximately two parts per million volume and increasing are rate of approximately two parts per million volume annually.

One of the challenges for carbon capture technology; however, is that the technology has performance and cost disciplinates that limit its wide scale use by power plants. H.R. 6 aims to further develop carbon capture technology that would be used to sequester the carbon emissions from fissil fuel power plants by:

- Expanding and improving the Department of Energy's existing carbon sequestration research;
- Requiring a national assessment of capacity to sequester carbon;
- Requiring the Secretary of Energy to conduct no less than seven large-scale geologic sequestration tests, with at least one as an international partnership;
- Increasing the funding authorization for all projects included in the new carbon capture and storage research, development, and demonstration programs, with an emphasis placed on large-scale geologic CO2 injection demonstration projects;

Green Buildings

H.R. & accelerates the implementation of new energy efficiency requirements for federal buildings, primarily through new requirements on the General Services Administration (GSA). Today, the GSA owns and leases over 340 million square feet of space in more than \$ 900 buildings, located in overy state.

Improving the energy efficiency of buildings is important because each year buildings are responsible for 39 percent of U.S. carbon dioxide emissions. Amountly, buildings in the United States also account for 70 percent of resource consumption, use 13 trillion gallons of water per year, and consume 3 billion tons of raw materials. The federal government is

- Carbon Capture Technology: To help address the challenge of global warming, HR 6 aims to develop carbon capture technology that can sequester the carbon emissions from fossil fuel power plants.
- o Green Buildings: HR 6 accelerates the implementation of new energy efficiency requirements for federal buildings. The Federal Government is the single largest consumer of energy in the US, spending \$14.5 billion on energy in 2005 alone, \$5.6 billion of which went toward heating, cooling, and powering over 500,000 federal buildings. This bill calls for 30 percent reduction in energy consumption by 2015, which would save almost \$4 billion in taxpayer money.
- o Geothermal Energy: Currently the US generates over 2,500 megawatts of geothermal energy, and another 2,500 megawatts are under developments. Recent actions by the Adminstration have targeted DOE's R&D geothermal programs for elimination. HR 6 invests in the promise of geothermal energy.