



EXECUTIVE CHAMBERS
HONOLULU

NEIL ABERCROMBIE
GOVERNOR

Testimony HB 2523
Relating to Interisland Electric Transmission Cable Systems

Governor Neil Abercrombie

HOUSE COMMITTEE ON WATER, LAND & OCEAN RESOURCES

Rep. Jerry Chang, Chair

Rep. Sharon E. Har, Vice Chair

And

HOUSE COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION

Rep. Denny Coffman, Chair

Rep. Derek S. K. Kawakami, Vice Chair

February 10, 2012
9:00 am, Room 325

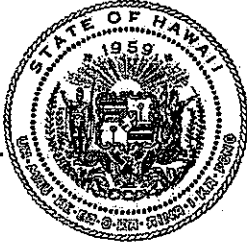
Chair Chang, Chair Coffman, Vice Chair Har, Vice Chair Kawakami, and members of the committees, thank you for hearing House Bill 2523 Relating to Interisland Electric Transmission Cable Systems. I respectfully request your support of this important measure.

This measure will establish a framework for any future cable proposals to be developed, financed and constructed. By establishing a process, uncertainties will be eliminated. Ultimately, this will lower the cost of any cable project(s) that may be approved in the future, to the benefit of everyone in Hawaii.

It is important to note that this bill does not ensure that there will be an interisland cable. Nor does it stipulate where the cable goes or the source of the energy that it may carry. It only sets up a framework in statute.

A cable proposal can be considered without this bill but this measure helps ensure it will go forward in a manner that benefits the consumer and protects the ratepayer.

Thank you again for consideration of this measure and the opportunity to testify in support.



**DEPARTMENT OF BUSINESS,
ECONOMIC DEVELOPMENT & TOURISM**

NEIL ABERCROMBIE
GOVERNOR

RICHARD C. LIM
DIRECTOR

MARY ALICE EVANS
DEPUTY DIRECTOR

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Statement of
RICHARD C. LIM
Director
Department of Business, Economic Development, and Tourism
before the
**HOUSE COMMITTEES ON
WATER, LAND, AND OCEAN RESOURCES AND
ENERGY & ENVIRONMENTAL PROTECTION**

Friday, February 10, 2012
9:00 AM
State Capitol, Conference Room 325

in consideration of
HB 2523
RELATING TO INTERISLAND ELECTRIC TRANSMISSION CABLE SYSTEMS.

Chairs Chang and Coffman; Vice Chairs Har and Kawakami; and Members of the
Committees.

The Department of Business, Economic Development, and Tourism (DBEDT) strongly supports HB 2523, a priority measure of the Abercrombie Administration to reduce financing costs for inter-island undersea power cables by having a clear regulatory structure in place.

It is the financing mechanism that helps Hawaii build an integrated, inter-island grid network that moves diverse renewable energy power generation sources to the largest electricity market. Such a grid network will reduce the use of imported oil, stabilize and lower energy costs, and provide energy security and grid stability.

HB 2523 establishes the regulatory structure under which interisland undersea transmission cables can be developed, affordably financed, and constructed on commercially reasonable terms, such as those upon which successful cable projects have been undertaken in several locations around the world. Any cable to be built in the absence of this measure will cost more to finance, placing an unnecessary burden on the ratepayer.

Renewable resources – solar, wind, geothermal, ocean energies – may all contribute to powering our state, reducing the unpredictable increases in power costs caused by oil prices.

Our state is already interconnected, with inter-island telecommunications cables for telephone and data, and this Administration's vision is for an integrated electrical grid cable network focused on a long term, statewide renewable energy future.

Thank you for the opportunity to offer our testimony and answer any questions you may have.

TESTIMONY OF HERMINA MORITA
CHAIR, PUBLIC UTILITIES COMMISSION
DEPARTMENT OF BUDGET AND FINANCE
STATE OF HAWAII
TO THE
HOUSE COMMITTEES ON
WATER, LAND, & OCEAN RESOURCES
AND
ENERGY & ENVIRONMENTAL PROTECTION

FEBRUARY 10, 2012

MEASURE: H.B. No. 2523

TITLE: Relating to Interisland Electric Transmission Cable Systems

Chair Chang, Chair Coffman, and Members of the Committees:

DESCRIPTION:

This measure proposes to establish a comprehensive regulatory framework for the development, operation, and potential transfer of ownership of an interisland high-voltage electric cable ("Interisland Cable" or "Cable") system or systems. Specifically, the measure outlines the certification process, the cost recovery mechanism and surcharges for parties involved, and the process by which a local electric utility may acquire the Interisland Cable in the future.

POSITION:

The Commission strongly supports this measure and would like to offer the following comments for consideration by the Committees.

COMMENTS:

The Commission supports this measure as it establishes the process for considering an Interisland Cable. This bill sets forth the regulatory framework through which a cable project would be reviewed and developed, if approved, to connect Oahu to a neighbor island for the purpose of sharing power between islands.

The passage of this bill does not guarantee that an Interisland Cable will be built, only the predictability and certainty of the regulatory process. The bill allows for a cable developer to submit a bid to Hawaiian Electric Company, Inc. ("HECO") and the Department of Business, Economic Development and Tourism. The Commission would approve the selection of the cable developer and grant a certificate of public convenience and necessity ("CPCN"). Besides

obtaining a CPCN, the cable developer will also need to conduct an environmental review and receive the required federal, state, and county permits before ever building the Cable. This multi-step Cable review process is in its infancy, and the Commission supports this measure that lays some of the groundwork on which this lengthy and comprehensive review can proceed.

The Commission is well aware of public opposition to the proposed wind farms on Molokai and Lanai, but this bill should not be seen as being exclusively tied to those two projects. Instead, the Commission believes this bill should be viewed as the opportunity to carefully examine how an Interisland Cable may be mutually beneficial to multiple islands throughout the State. To broaden the potential of this kind of development, the Commission recently ordered HECO to re-open the request for proposals for 200 megawatts or greater of renewable energy for delivery to Oahu. This allows HECO to consider all renewable resource options, such as geothermal energy on Maui, or wind energy on Maui, Molokai, and Lanai, in terms of best cost and highest likelihood of project success. However, none of these resources can be developed without a Cable connecting Oahu to one or more of the neighbor islands.

The Honolulu Star-Advertiser recently reported that Hawaii has the highest electricity rates in the country. This is not news to most electric customers, especially to those on the neighbor islands who pay higher rates than those paid on Oahu. The Commission is closely examining the potential for the Interisland Cable to help stabilize and lower electricity rates for the islands connected to the Cable through the maximum utilization and increased efficiency of energy assets on each island. For example, electricity rates on Oahu are cheaper than on neighbor islands, because Oahu has lower cost fossil fuels. The neighbor islands on the other hand have an excess of renewable energy that they cannot use and may have to curtail, essentially throwing away that capacity. An Interisland Cable connecting two island grids would create the opportunity for those islands to share most economic and efficient fossil fuel power and excess renewable energy resources. Again, allowing Oahu, for example, to export cheaper power when it is not receiving renewable energy through the Interisland Cable would increase the utilization of that Cable.

Thank you for the opportunity to testify on this measure.



NEIL ABERCROMBIE
GOVERNOR

BRIAN SCHATZ
LT. GOVERNOR

STATE OF HAWAII
OFFICE OF THE DIRECTOR
DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS

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KEALI'I S. LOPEZ
DIRECTOR

TO THE HOUSE COMMITTEES ON WATER, LAND, AND OCEAN RESOURCES
AND ENERGY AND ENVIRONMENTAL PROTECTION

THE TWENTY-SIXTH LEGISLATURE
REGULAR SESSION OF 2012

FRIDAY, FEBRUARY 10, 2012
9:00 A.M.

TESTIMONY OF JEFFREY T. ONO, EXECUTIVE DIRECTOR, DIVISION OF
CONSUMER ADVOCACY, DEPARTMENT OF COMMERCE AND CONSUMER
AFFAIRS, TO THE HONORABLE JERRY L. CHANG
AND THE HONORABLE DENNY COFFMAN, CHAIRS,
AND MEMBERS OF THE COMMITTEES

HOUSE BILL NO. 2523 - RELATING TO RELATING TO INTERISLAND
ELECTRIC TRANSMISSION CABLE SYSTEMS

DESCRIPTION:

This measure proposes to establish a regulatory structure for the installation and implementation of an interisland high voltage electric transmission cable system and for the construction of on-island transmission infrastructure.

POSITION:

The Division of Consumer Advocacy strongly supports House Bill No. 2523:

COMMENTS:

The State of Hawaii needs to become energy independent. There is little debate over this proposition. The rising cost of imported petroleum continues to drive consumers' electricity bills higher and higher with no relief in sight. Renewable energy generation offers the most effective way of stabilizing energy prices, reducing the State's carbon footprint, and keeping capital in the State.

The State of Hawaii is faced with three significant hurdles in its energy generation, transmission, and distribution:

1. Hawaii is isolated from all mainland electric grids. Unlike other mainland states, Hawaii does not have the ability to obtain power from other grids that could supply electricity in times of need.
2. The population of Hawaii is concentrated on one island, Oahu, while abundant renewable energy resources are located on the neighbor islands – geothermal, solar, and wind in Maui and Hawaii counties.
3. Each island is its own electric grid. On the neighbor islands, costly grid infrastructure is spread across relatively few ratepayers.

H.B. No. 2523, the undersea transmission cable bill, is an important step in spurring more renewable energy generation projects, including geothermal, providing greater energy reliability with interconnected island grids, and bringing state-wide uniformity in electricity rates. By laying out the regulatory framework for an undersea transmission cable, H.B. No. 2523 will give cable developers and financiers an element of certainty that does not already exist. For consumers, H.B. No. 2523 makes it clear that the risk if an undersea transmission cable project fails falls on the cable developer until such time as there are electrons flowing through the system.

There is an abundance of geothermal energy on the Big Island that is waiting to be tapped. So much so that the potential supply of geothermal would exceed that island's demand. If that geothermal energy could be exported from island to island via an undersea transmission cable, then the entire state could benefit from that resource.

Furthermore, interconnecting the island grids will lead to greater reliability. If there is a power generation problem on Maui, then electricity could be sent there from Oahu. Each grid could carry less spinning reserves – generators that are not putting

energy into the grid, but must be kept running to make sure demand increases are being met or are available in the event of an outage.

Under Hawaii's current structure, with each island being a separate grid, electricity rates vary from island to island. If the islands are connected via a network of undersea cables, then rates would be uniform for each island the cable contacts.

H.B. No. 2523 also makes it clear that consumers will not begin to pay for the cost of the undersea cable until it is deemed by the Public Utilities Commission ("PUC") that the cable is "used or useful" with electricity flowing through the system. An undersea cable project does not necessarily need this legislation for it to proceed. However, without H.B. No. 2523, a cable developer that properly installs the cable, but through no fault of its own, has the project fail before any electrons are flowing, may be able to recover its costs from ratepayers. H.B. No. 2523 puts the risk of project failure on the cable developer until the cable is actually used or useful, as determined by the PUC. Section 269-D(c) of H.B. No. 2523 states as follows:

"(c) Notwithstanding any requirements to the contrary, a high-voltage electric transmission cable system may be deemed "used or useful for public utility purposes" upon commencing commercial operations, subject to the commission's determination and approval."

Under Hawaii Revised Statutes, Section 269-16(b)(3), the utility would be entitled to a fair return on its property that is actually "used or useful for public utility purposes." H.B. No. 2523 makes it clear that the determination of "used or useful for public utility purposes" for a cable developer is upon the commencement of "commercial operations." The definitions section of H.B. No. 2523 defines "commercial operations" as having passed acceptance tests performed by an independent qualified engineer and meeting other criteria established by the PUC. It is only then that ratepayers will begin to pay for the project.

By establishing the regulatory framework for an undersea transmission cable, H.B. No. 2523 provides an element of certainty to cable developers, financial institutions, the electric utilities, and consumers from the selection of the cable developer to the payment of the system by consumers. H.B. No. 2523 does not bypass any current laws that would require an environmental impact statement, nor does it mean that a community on any given island could not rise up to object to such a project. What it does do by setting out a regulatory framework and providing certainty to such a project is to attract developers and financing to this state. By giving geothermal developers the potential to sell energy beyond the Big Island (and possibly Maui), it will

House Bill No. 2523
House Committees on Water, Land, and Ocean Resources
and Energy and Environmental Protection
Friday, February 10, 2012, 9:00 a.m.
Page 4

foster geothermal development and bring competition to that market that will give Hawaii's consumers the best possible geothermal prices.

It is for these reasons that the Consumer Advocate strongly supports H.B. No. 2523.

Thank you for the opportunity to present this testimony.



HB2523
RELATING TO PUBLIC SAFETY
House Committee on Water, Land, & Ocean Resources
House Committee on Energy & Environmental Protection

February 10, 2012

9:00 a.m.

Room 325

The Office of Hawaiian Affairs (OHA) offers the following comments on HB2523, which establishes a regulatory scheme for the installation of an interisland power cable.

This issue is of particular concern to OHA and our beneficiaries because any interisland power cable in the state would lie across submerged ceded lands and affect OHA revenue from the use of these lands.

Many of our beneficiaries throughout the islands are greatly concerned about the potential impacts that these projects will have on their communities, sacred spaces, and ability to participate in traditional and customary practices. Additionally further outreach and dialogue on the costs and benefits of this cable are needed for the community to consider accepting this project.

Mahalo for the opportunity to testify on this important measure.

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GCA of Hawaii

GENERAL CONTRACTORS ASSOCIATION OF HAWAII

Quality People. Quality Projects.

Uploaded via Capitol Website

February 10, 2012

TO: HONORABLE REPRESENTATIVES JERRY CHANG, SHARON HAR, VICE CHAIR AND MEMBERS OF THE HOUSE COMMITTEE ON WATER, LAND & OCEAN RESOURCES

HONORABLE REPRESENTATIVES DENNY COFFMAN, CHAIR, DEREK KAWAKAMI, VICE CHAIR AND MEMBERS OF THE HOUSE COMMITTEE ON ENERGY AND ENVIRONMENTAL PROTECTION

SUBJECT: **SUPPORT OF H.B. 2583 RELATING TO INTERISLAND ELECTRIC TRANSMISSION CABLE SYSTEMS.** Establishes a regulatory structure for the installation and implementation of an interisland high voltage electric transmission cable system and for the construction of on-island transmission infrastructure.

HEARING

DATE: Friday, February 10, 2012

TIME: 9:00 A.M.

PLACE: Conference Room 325

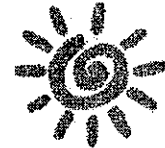
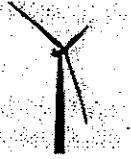
Dear Chairs Chang and Coffman, Vice Chairs Har and Kawakami and Members,

The General Contractors Association (GCA) is an organization comprised of over six hundred (600) general contractors, subcontractors, and construction related firms. The GCA was established in 1932 and is celebrating its 80th anniversary this year; it remains the largest construction association in the State of Hawaii. GCA is in support of H.B. 2523, Relating to Interisland Electric Transmission Cable Systems.

H.B. 2523 proposes to establish the regulatory structure under which interisland undersea transmission cables can be developed, financed, and constructed on commercially reasonable terms, such as those upon which successful cable projects have been undertaken in several locations around the world.

Hawaii's reliance on foreign sources of oil has sky rocketed the cost of electricity for island families and businesses and these costs will keep rising. This bill proposes to establish the infrastructure necessary to share different energy resources between the islands and minimize Hawaii's reliance on foreign energy sources. Public campaigns and television commercials by Hawaii's largest utility company has brought this issue to the forefront. This bill allows the state to take the steps necessary to utilize Hawaii's local sources of energy.

For these reasons, we strongly support this bill. Thank you for the opportunity to provide our support on this measure.



LIFE OF THE LAND

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COMMITTEE ON WATER, LAND, & OCEAN RESOURCES

Rep. Jerry L. Chang, Chair
Rep. Sharon E. Har, Vice Chair

COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION

Rep. Denny Coffman, Chair
Rep. Derek S.K. Kawakami, Vice Chair

DATE: Friday, February 10, 2012
TIME: 9:00 a.m.
PLACE: Conference Room 325
BILL: HB 2523 INTERISLAND ELECTRIC TRANSMISSION CABLE SYSTEMS.

Aloha Chairs Chang and Coffman, Vice Chairs Har and Kawakami, and Members of the Committees

My name is Henry Curtis and I am the Executive Director of Life of the Land, Hawai`i's own energy, environmental and community action group advocating for the people and `aina for four decades. Our mission is to preserve and protect the life of the land through sound energy and land use policies and to promote open government through research, education, advocacy and, when necessary, litigation.

Should Hawai`i build an extremely costly undersea cable system that will enrich the utility?

Should the single-minded cable path be pursued without examining the financial, job creation, social, environmental, greenhouse gas emissions, and technological implications?

Association of Hawaiian Civic Clubs

On October 29, 2011, at the Annual Convention of the Association of Hawaiian Civic Clubs at Turtle Bay, Resolution 11-50 was passed:

"Urging Governor Neil Abercrombie and the Hawai`i State Legislature to Support Sustainable, Low Impact Alternative Energy that will make O`ahu Energy Self Sufficient Rather than Dependent upon Lana`i and Moloka`i for its Energy and Protect the Open Spaces, Natural Resources and the Hawaiian Lifestyle of Moloka`i, the last Hawaiian Island."

Sustainability and self-sufficiency require that we look for answers within. This does not require us to reduce our demand, only to supply it locally.

Land Grab

The mighty and the strong sometimes grab resources controlled by others under the disguise that it is better for everyone. Often the grabbers fail to understand the values and beliefs of the grabees. Thus flat windy sites are good for industrial wind facilities but the cultural and spiritual value of the site is dismissed or written off.

To avoid the land grab issue, proponents of this bill have changed their tune, from the idea that Oahu doesn't have adequate sun, wind and waves to an approach based on crating stabile island grids.

The Cost Issue

Originally HECO argues that there is a lack of renewable resources on Oahu. The Electric Power Research Institute (EPRI) just published a report that waves off Oahu can supply more than twice the electricity used on the island. There are wind proposals to build a 300MW wind farm just off the Oahu coast. Sempra proposed a 350MW solar farm for Oahu. HECO and OTEC International LLC (OTI) signed preliminary documents for a 100MW baseload OTEC plant off Oahu. Clearly O`ahu can produce all of it's energy needs on island and/or just off it.

The new argument is the cable can provide frequency and voltage support for isolated island grids. That is, building a \$ billion dollar cable with make the electricity have higher quality.

The PUC Reliability Standards Working Group, which I sit on, is analyzing the grids to determine what new Reliability Standards are needed to maximize renewable energy penetration. This analysis requires engineering studies, production models, economic analysis, etc. of the existing grids. Batteries, new control systems at existing wind farms, new wind and solar forecasting methods involving distributed monitoring systems, and new computer programs, might be far more effective and at a significantly lower price.

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Thursday, February 09, 2012 2:39 PM
To: WLOtestimony
Cc: jkealoha@ilwulocal142.org
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Support
Testifier will be present: No
Submitted by: Guy Fujimura
Organization: ILWU Local 142
E-mail: jkealoha@ilwulocal142.org
Submitted on: 2/9/2012

Comments:

The Twenty-Sixth Legislature
Regular Session of 2012

HOUSE OF REPRESENTATIVES

Committee on Water, Land, & Ocean Resources

Rep. Jerry L. Chang, Chair

Rep. Sharon E. Har, Vice Chair

Committee on Energy & Environmental Protection

Rep. Denny Coffman, Chair

Rep. Derek S.K. Kawakami, Vice Chair

State Capitol, Conference Room 325

Friday, February 10, 2012; 9:00 a.m.

**STATEMENT OF THE ILWU LOCAL 142 ON H.B. 2523
RELATING TO INTERISLAND ELECTRIC TRANSMISSION CABLE SYSTEMS**

The ILWU Local 142 supports H.B. 2523, which establishes a regulatory structure for the installation and implementation of an interisland high voltage electric transmission cable system and for the construction of on-island transmission infrastructure.

Hawaii has an abundance of renewable energy resources in geothermal, ocean thermal energy conversion, photovoltaic, wind, biomass, and biofuels. However, much of the renewable energy resources are not on Oahu, where most of the State's population resides and the electricity needs are greatest. To transmit electricity generated from renewable sources to areas where it is needed will require a high-voltage transmission cable system.

H.B. 2523 will facilitate development of an undersea cable that will link the islands to renewable energy resources. The bottom line is that without the cable, electricity generated on the neighbor islands may be wasted and unused while electricity rates in Hawaii will continue to rise.

The ILWU urges passage of H.B. 2523. Thank you for the opportunity to testify on this matter.

In a similar vein the HNEI is installing a grid-connected battery system at Hawi to determine to what extent it can improve frequency and voltage stability. This at a cost of \$2M, 1/500th of the cost of the \$1B proposed cable (of course if the cable goes from O`ahu to Hawai`i Island and includes redundancy the actual price tag will exceed \$10B without including cost overruns).

The cable approach assumes that the most expensive gold-plated inter-island cable system is the optimal choice and we should move forward before the analysis of alternatives is complete. The cable, if built, would not reach the Big Island for at least a decade. The problems exist on that island now.

Not all ocean transmissions lines would be covered by this bill

HB 2523 creates a vehicle for a particular type of high-voltage undersea transmission lines. Those owned by third parties and going between two or more islands.

This bill does not create a vehicle for generic third party ownership of an undersea cable. For example, a transmission company might propose building a high-voltage undersea transmission line from the shore of any island to an ocean hub located on the floor of the ocean. In this case renewable energy producers could hook up offshore wind energy systems, ocean wave energy systems, and/or ocean thermal energy conversion (OTEC) systems to the hub. This would vastly decrease regulation and speed up installations, since all coastal and shore operations would have already been completed.

This bill does not cover ocean hubs, it is limited to those who want to build a cable between two or more islands.

Back-Up Power

Thus the bill this year states: Interconnecting the islands ...[will] enable the islands to provide each other with backup power."

The HECO, MECO and HELCO systems peak loads occurred in 2004. With the installation of energy efficiency devices and on-site generation, demand has fallen. The HECO grid has 600 MW of back-up generators. Do we need more?

The Reliability Issue

Any component can fail at any time. The grid is protected from the sudden loss of any generator or transmission component during a period when another generation or transmission component is off-line for maintenance.

Transmission Lines: The grid is currently configured so that, if HECO takes one line down for maintenance and a second line fails, then the remaining components can keep the system viable. Technically this is called the N-1-1 contingency.

Power Plants: If HECO has taken down a generator for maintenance, the HECO grid can take a sudden unexpected loss of its largest remaining generator – the AES 200 MW coal plant in Campbell Industrial Park.

Thus Campbell Industrial Park, with 450-500 MW of generation (AES, Kalaeloa, H-POWER), is connected to the rest of the Oahu grid by three transmission lines following two different routes. The use of two routes is key because any one substation could fail.

This is not an issue on the U.S. Continent because grids are interconnected in so many different ways.

Inter-island Cables: If Maui and O`ahu were connected by cables, then a minimum of three cables following two routes would be needed. Since a repair would take 18 months to fix depending in part upon whether the damage occurred during whale season (Big Wind Programmatic EIS Preparation Notice) it would be wiser to install four cables using two cables per route.

Spinning Reserves: Some generators operate below their maximum outputs to be able to ramp up to offset a sudden shift in supply or demand. The sudden change can be caused by load coming on or off line, changes in solar and wind resources, and Acts of God (unintended loss of transmission or generation component). The amount of spinning reserves needed can be decreased by monitoring cloud cover or wind speed using both actual and dispersed data collection points and computer modeling.

Analysis by the University of Hawaii's HNEI determined that HECO should be able to predict wind resources and thus need less spinning reserves than if they did not bother to try to predict wind resources. HNEI proclaimed that the O`ahu grid could handle an added 600MW of renewable energy including 400MW of inter-island wind. They did not examine the spinning reserve requirements needed in case the inter-island cable went suddenly off-line due to an Act of God. They did not examine what HECO would have to do to handle this situation. The current HECO grid can not handle a sudden loss of 400 MW. The entire grid could collapse and we would be facing an island-wide blackout.

Oahu Wind Integration Study (OWIS) Final Report (February 2011) Prepared for the U.S. Department of Energy. Delivered by University of Hawaii (UH) Hawaii Natural Energy Institute (HNEI) School of Ocean and Earth Science and Technology (SOEST)

"To maintain adequate system performance during unexpected grid events, the spinning reserve requirement for the island of Oahu is 180 MW. This means that at least 180MW of power can be made available from the units already on-line (by increasing the production from these units) should an event take place. This provides sufficient power should the largest plant, AES, unexpectedly disconnects from the system."

"In the scenario analysis it was assumed that the spinning reserve would be complimented with an additional amount of regulating reserve to account for the sub-hourly wind variability. The regulating reserve is determined by the forecasted wind power and defined by reserve capacity and ramping capability. Therefore, in every hour of the year, the system carries spinning reserves (as a constant 185 MW) and regulating reserves (determined as a function of forecasted wind power). We will refer to the sum of spinning and regulating reserves as the up reserve of the system."

"The largest unit in the HECO system is AES steam unit. This unit has a net power of about 180 MW (projected to increase to 185 MW). The minimum spinning reserve is based on the trip of AES. HECO was interested in understanding the implications of HVDC cable trips, particularly considering that each HVDC cable is planned (at this point) for a 200 MW rating."

The Job Issue

Is it better to spend the next five-to-ten years planning an inter-island cable?

Or is it better to rapidly build central station and rooftop wind and solar systems today and tomorrow?

Changing National Definitions

"Used and useful" is a technical term used in rate cases. It allows a utility to recover costs for a capital improvement project if the utility can show that the project is used AND that it is necessary to ensure reliability.

This bill does away with that requirement, stating that the "high-voltage electric transmission cable system may be deemed 'used or useful for public utility purposes' upon commencing commercial operations"

Mahalo for the opportunity to testify,

Henry Curtis

The Pacific Resource
PARTNERSHIP



Testimony of C. Mike Kido
External Affairs
The Pacific Resource Partnership

COMMITTEE ON WATER, LAND, & OCEAN RESOURCES
Rep. Jerry L. Chang, Chair
Rep. Sharon E. Har, Vice Chair

COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION
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HB 2523 – Relating to Interisland Electric Transmission Cable Systems
Friday, February 10, 2012
9:00 am
Conference Room 325

Aloha Chair Chang, Chair Coffman and Members of the Committees:

My name is C. Mike Kido, External Affairs of the Pacific Resource Partnership (PRP), a labor-management consortium representing over 240 signatory contractors and the Hawaii Regional Council of Carpenters (f.k.a. Hawaii Carpenters Union).

PRP supports HB 2523 – Relating to Interisland Electric Transmission Cable Systems which establishes a regulatory structure for the installation and implementation of an interisland high voltage electric transmission cable system and for the construction of on-island transmission infrastructure.

New data from the federal government shows that Hawaii residents paid the highest rates for electricity in the country in 2010 and Hawaii also has the highest dependency on foreign oil in the nation.

We need framework for cable to be a public utility. Interconnecting the islands via undersea electric transmission cable systems would provide increased energy security, even more so to large population centers, and create system efficiencies. In these difficult economic times, it will create much needed jobs, reduce dependency on foreign oil and provide long term stability to our economy.

Thank you for the opportunity to share our views with you and we respectfully ask for your support on HB 2523.

BIA-HAWAII

BUILDING INDUSTRY ASSOCIATION

**Testimony to the House Committees on Water, Land & Ocean Resources
And Energy and Environmental Protection**

Friday, February 10, 2012

9:00 a.m.

State Capitol - Conference Room 325

**RE: HOUSE BILL NO. 2523 RELATING TO INTERISLAND ELECTRIC
TRANSMISSION CABLE SYSTEM**

Chairs Coffman and Chang; Vice Chairs Kawakami and Har, and members of the committees:

My name is Gladys Quinto Marrone, Government Relations Director for the Building Industry Association of Hawaii (BIA-Hawaii). Chartered in 1955, the Building Industry Association of Hawaii is a professional trade organization affiliated with the National Association of Home Builders, representing the building industry and its associates. BIA-Hawaii takes a leadership role in unifying and promoting the interests of the industry to enhance the quality of life for the people of Hawaii.

BIA-HAWAII strongly supports H.B. No. 2523 in its present form. The bill proposes to establish the regulatory structure under which interisland undersea transmission cables can be developed, financed, and constructed on commercially reasonable terms, such as those upon which successful cable projects have been undertaken in several locations around the world.

H.B. 2523 proposes to establish a regulatory structure for the installation and implementation of an interisland high voltage electric transmission cable system and for the construction of on-island transmission infrastructure.

BIA-Hawaii strongly supports this initiative that attempts to attract private investment to develop an interisland undersea transmission cable. Such a cable would allow the State of Hawaii to make better use of its natural energy resources that are unique to certain areas of the State.

Thank you for the opportunity to share with you our views.



**Testimony to the House Committees on Water, Land & Ocean Resources
And, Energy and Environmental Protection
Friday, February 10, 2012
9:00 a.m.
State Capitol - Conference Room 325**

**RE: HOUSE BILL NO. 2523 RELATING TO INTERISLAND ELECTRIC
TRANSMISSION CABLE SYSTEM**

Chairs Chang and Coffman, Vice Chairs Har and Kawakami, and members of the committees:

The Chamber of Commerce of Hawaii strongly supports H.B. No. 2523 in its present form. The bill proposes to establish the regulatory structure under which interisland undersea transmission cables can be developed, financed, and constructed on commercially reasonable terms, such as those upon which successful cable projects have been undertaken in several locations around the world.

The Chamber is the largest business organization in Hawaii, representing more than 1,000 businesses. Approximately 80% of our members are small businesses with less than 20 employees. As the "Voice of Business" in Hawaii, the organization works on behalf of its members, which employ more than 200,000 individuals, to improve the state's economic climate and to foster positive action on issues of common concern.

The bill proposes to establish a regulatory structure for the installation and implementation of an interisland high voltage electric transmission cable system and for the construction of on-island transmission infrastructure.

The Chamber strongly supports this initiative that attempts to attract private investment to develop an interisland undersea transmission cable. Such a cable would allow the State of Hawaii to make better use of its natural energy resources that are unique to certain areas of the State.

Thank you for this opportunity to express our views.

**TESTIMONY BEFORE THE HOUSE COMMITTEES ON
WATER, LAND AND OCEAN RESOURCES**

AND

ENERGY AND ENVIRONMENTAL PROTECTION

H.B. No. 2523

Relating to Interisland Electric Transmission Cable Systems

Friday, February 10, 2012

9:00 am

State Capitol, Conference Room 325

Scott W. H. Seu
Vice President, Energy Resources
Hawaiian Electric Company, Inc.

Chair Chang, Chair Coffman, and Members of the Committees:

My name is Scott Seu and I represent Hawaiian Electric Company and its subsidiary utilities Maui Electric Company and Hawaii Electric Light Company. The bill establishes a regulatory framework for the Hawaii Public Utilities Commission (PUC) to oversee and regulate the development, ownership, and operation of undersea transmission cables between our islands. We strongly support this measure.

This bill very importantly builds the foundation of establishing a statewide undersea cable network, which could be capable of tying our island electric grids together to improve grid reliability and promote greater use of renewable energy. That renewable energy could come from any number of technologies – geothermal, biomass, wind, solar, wave energy – and from any of our islands.

As we move towards our clean energy future, we envision renewable energy that could be developed from a wide variety of technologies and which could be located on any of our islands, serving all of our customers via an undersea cable network. This legislation will provide greater clarity to developers, the utility, and our regulators about each of our roles and responsibilities, and will ultimately reduce costs and risks to our customers.

Thank you for this opportunity to testify.



Hawaii's Thousand Friends

25 Malunilu Ave., Suite 102., PMB 282 • Kailua, HI 96734 • Phone/Fax: (808) 262-0682 E-mail: htf@lava.net

February 10, 2012

COMMITTEE ON WATER, LAND & OCEAN RESOURCES

Rep. Jerry L. Chang, Chair
Rep. Sharon E. Har, Vice Chair

COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION

Rep. Denny Coffman, Chair
Rep. Derek S.K. Kawakami, Vice Chair

HB 2523

Committee Chairs and Members;

Hawaii's Thousand Friends, a statewide non-profit water and land use planning organization, opposes HB 2523 that establishes the regulatory structure for the installation and implementation of an interisland high voltage electric transmission cable system and for the construction of on-island transmission infrastructure.

This legislation is premature. The Programmatic Environmental Impact Statement (PEIS) process has not been completed including project specific EISs. Until that process is completed and all Statements reviewed, accepted and impacts understood there is no way to evaluate or understand short and long term impacts on the environment, land, ocean, and coastal resources.

Of specific concern are potential impacts to Hawaii's Whale Sanctuary and south Molokai's reef, the largest fringing reef north of Australia. NOAA (National Marine Fisheries Service) cautions in the In the Programmatic EISPN " ... the effects of high electromagnetic fields in the marine environment should warrant a precautionary approach."

US Fish and Wildlife Service expressed similar concerns "This project has the potential to have direct and indirect effects to many listed species on various islands ... "

Projects of this magnitude must be considered comprehensively including the electric utility company's revenue requirements and how those requirements will be met. *In other words who will pay for what, how much and for how long?*

Hawaii's ratepayers and fragile environment cannot afford for you to support HB 2523 with little or no fact based information. We urge you to please hold this bill in committee.



CONSERVATION COUNCIL FOR HAWAII

Testimony Submitted to the House Committee on Water, Land, and Ocean Resources
and House Committee on Energy and Environmental Protection

Hearing: Friday, February 10, 2012 9 a.m.
Conference Room 325

In Opposition to HB 2523 Relating to Interisland Electric Transmission Cable Systems

Aloha. The Conservation Council for Hawai'i opposes HB 2523 because of its significant impacts to the native Hawaiian species and ecosystems we seek to protect. The cable route includes the south Moloka'i coral reef, which is the longest fringing reef north of Australia, and includes the Penguin Bank – an extensive shallow marine habitat, fishing ground for Hawai'i bottomfish vessels, and part of the Hawaiian Humpback Whale National Marine Sanctuary. The cable route also includes the other areas within the sanctuary.

The National Marine Fisheries Service has expressed serious concerns about the short- and long-term impacts of the cable installation, high-level electromagnetic fields emanating from the cable on the seafloor, and acoustics that could disrupt the foraging behaviors of the Hawaiian monk seal, a critically endangered species whose numbers are declining.

The United State Fish and Wildlife Service notes that important fish and wildlife resources occur throughout the proposed project areas, including coastal, wetland, stream and marine habitats. FWS recommended that particular attention be given to the impacts of construction, operation, and maintenance of the cable to endangered and threatened species, migratory birds, wetlands, streams, coral reefs, fisheries, and rare native species and habitats.

The Environmental Protection recommends analysis of additional alternatives to the cable as early as possible. Such alternatives, which will have significantly fewer negative impacts on native wildlife and habitats include solar, especially roof top solar, on O'ahu, and developing renewable sources of firm power on O'ahu.

We also oppose any undersea cable that facilitates an industrial power plant on Lana'i, which could include 200 wind turbines on a quarter of the island. The board of directors of the Conservation Council for Hawai'i passed the attached resolution opposing Big Wind on Lana'i and we are monitoring proposals for Moloka'i. O'ahu must be accountable for its excessive use of energy, and it needs to reduce, reuse, and recycle before turning to the other counties for its energy needs and projects that will result in such destruction of Hawaiian wildlife and wild places.

Mahalo nui loa for the opportunity to testify. Please oppose HB 2523.

Sincerely,
Marjorie Ziegler
Attachment



Hawai'i's Voice for Wildlife – Ko Leo Hawai'i no na holoholona lohiu

Telephone/Fax 808.593.0255 • email: info@conservehi.org • web: www@conservehi.org
P.O. Box 2923 • Honolulu, HI 96802 • Office: 250 Ward Ave., Suite 220 • Honolulu, HI 96814

President: Hannah Springer * Vice-President: Julie Leialoha * Treasurer: Rick Barboza * Secretary: Maka'ala Ka'aumoana
Directors: Lida Pigott Burney * Koalani Kaulukukui * Robin Kaye
Executive Director: Marjorie Ziegler

Conservation Council for Hawai'i
Attachment to Testimony Opposing HB 2523 House WLO/EEP Committees
February 10, 2012 9 a.m. Conference Room 325

**RESOLUTION OPPOSING THE PROPOSED INDUSTRIAL WIND POWER PLANT FOR O'AHU ON LĀNA'I
AND ASSOCIATED UNDERSEA CABLE**

ADOPTED BY THE CONSERVATION COUNCIL FOR HAWAI'I BOARD OF DIRECTORS ON NOVEMBER 29, 2011

WHEREAS, the Conservation Council for Hawai'i (CCH) was founded in 1950 and is dedicated to the protection of native Hawaiian plants, animals, and ecosystems for future generations; and

WHEREAS, CCH has a long history of protecting rare, threatened, and endangered species in Hawai'i, including species on the island of Lāna'i; and

WHEREAS, most of the native vegetation on Lāna'i has been destroyed by introduced grazing and browsing mammals, or cleared for large-scale pineapple cultivation; and

WHEREAS, in 1956, CCH commissioned a survey of native Hawaiian plants in the Kānepu'u dryland forest in the ahupua'a of Ka'ā, northwest Lāna'i; and

WHEREAS, in the 1960s, CCH presented its first Conservation Award to George C. Munro, Lāna'i Ranch Manager, for protecting the Kānepu'u dryland forest and native Hawaiian plants on Lāna'i; and

WHEREAS, for many years, Hui Mālama Pono O Lāna'i and others have protected and cared for the Kānepu'u dryland forest, which is now managed as a preserve by The Nature Conservancy of Hawai'i in partnership with the community and with matching funds under the state Natural Area Partnership Program; and

WHEREAS, endangered plants in the Kānepu'u Preserve include nā'ū (Hawaiian gardenia), 'iliahi (sandalwood), ma'o hau hele (native yellow hibiscus), and a native morning glory, *Bonamia menziesii*; and

WHEREAS, in 1989 and 1999, CCH took legal action under the federal Endangered Species Act (ESA), which resulted in the listing of 255 Hawaiian plants as threatened or endangered species, including 37 species on Lāna'i; and

WHEREAS, in 1997, CCH took legal action under the ESA to compel the designation of critical habitat for over 200 threatened and endangered Hawaiian plants, including 300 acres in the northwestern region of Lāna'i for the endangered Awalua Ridge tetramolopium, and critical habitat elsewhere on Lāna'i for two additional species; and

WHEREAS, in 2010, CCH took legal action under the ESA to protect the endangered 'ua'u (Hawaiian petrel) and threatened 'a'o (Newell's shearwater) from harm caused by lights and utility poles and lines in flyways on Kaua'i; and

WHEREAS, the summit of Lāna'i, Lāna'ihale, supports the second largest known 'ua'u breeding colony in the world with active nesting burrows and an estimated 2,000 birds; and

WHEREAS, 'ua'u fly over northwest Lāna'i from Lāna'ihale to the sea to hunt and feed their nestlings, and fledglings use these flyways on their maiden flights to the sea; and

WHEREAS, scientists believe 'ua'u thrive on Lāna'ihale because Lāna'i has little land development and few urban lights and tall obstacles, such as utility poles and lines, which, in other locations, disorient seabirds and obstruct flyways; and

WHEREAS, the endangered ae'ō (Hawaiian stilt), endangered 'ōpe'ape'a (Hawaiian hoary bat), threatened 'a'ō (Newell's shearwater), and pueo (short-eared brown Hawaiian owl) also occur on Lāna'i; and

WHEREAS, Lāna'i's marine environment – consisting of nearshore waters, coral reefs, and sandy beaches – supports the endangered koholā (Hawaiian humpback whale), endangered 'ilioholoikauaua (Hawaiian monk seal), endangered honu 'ea (hawksbill sea turtle), threatened honu (green sea turtle), migratory shorebirds, and other marine life; and

WHEREAS, Lāna'i is the only island completely surrounded by the Hawaiian Islands Humpback Whale National Marine Sanctuary, and whales are known to come close to shore; and

WHEREAS, the National Marine Fisheries Service proposes to expand critical habitat for the endangered 'ilioholoikauaua to the main Hawaiian islands, including the coastline and waters out to a depth of 500 m around the entire northwest end and most of Lāna'i; and

WHEREAS, Ka'ea, located on the northwest end of Lāna'i near Ka'ena Point, is named for the endangered honu 'ea, and nearby Polihua ("cove of eggs") was once one of the most famous honu nesting beaches in Hawai'i; and

WHEREAS, Castle & Cooke and the Hawaiian Electric Company propose an industrial wind power plant for O'ahu on 22,000 acres (one-fourth of the island) in the northwest region of Lāna'i; and

WHEREAS, the proposed wind power plant will require the transport, construction, and operation of 80 to 170 wind turbines, each over 400 feet high with a blade span of 200 feet; and

WHEREAS, the proposed wind turbines will require foundations 20 feet by 60 feet by 12 feet deep, large construction pads to accommodate heavy equipment and materials, and large quantities of water for cement and dust control; and

WHEREAS, the proposed wind power plant will require the construction of dozens of paved roads 30 feet wide, including the existing jeep road adjacent to the Kānepu'u Preserve; and

WHEREAS, the proposed wind power plant will require the construction and operation of a transfer station on the northwest end of Lāna'i at or near Polihua; and

WHEREAS, the proposed wind power plant will require the construction and operation of an undersea cable between Lāna'i and O'ahu to be funded by Hawaiian Electric Company ratepayers on O'ahu; and

WHEREAS, the proposed wind turbines, construction pads, and paved roads threaten the Kānepu'u dryland forest and endangered plants in the northwestern region of Lāna'i, and will destroy or adversely modify critical habitat for the endangered Awalua Ridge tetramolopium; and

WHEREAS, the proposed wind turbines will kill and harm the endangered 'ua'u, including breeding birds and fledglings, in essential flyways linking nesting burrows on Lāna'i hale to the sea; and

WHEREAS, according to federal wildlife biologists, approximately 400,000 birds are killed annually by wind farms in the U.S. – nearly one bird every minute; and

WHEREAS, a study of 'ua'u conducted for Castle & Cooke in 2007 for seven temporary, relatively short, and bladeless wind-measuring towers in the northwest region of Lāna'i, indicates that dozens of birds would be killed by the towers, even with some avoidance of the towers by birds; and

WHEREAS, in addition to harming and killing the endangered 'ua'u, the proposed wind power plant threatens the endangered ae'o, endangered 'ōpe'ape'a, threatened 'a'o, pueo; and migratory shorebirds; and

WHEREAS, the excavation of foundations for wind turbines, and construction pads and paved roads will increase runoff to the ocean, increase siltation of coral reefs, and reduce water quality in the marine environment, including the Hawaiian Islands Humpback Whale National Marine Sanctuary and proposed critical habitat for the endangered 'ilioholoikauaua; and

WHEREAS, a transfer station on the northwest end of Lāna'i at or near Polihua will destroy or adversely modify proposed critical habitat for the endangered 'ilioholoikauaua, and disrupt essential behavior of seals and sea turtles utilizing the coast; and

WHEREAS, the proposed undersea cable between Lāna'i and O'ahu will likely harm threatened and endangered species and other marine life, and degrade sensitive habitat, including the Hawaiian Islands Humpback Whale Sanctuary and proposed critical habitat for the endangered 'ilioholoikauaua; and

WHEREAS, the proposed industrial wind power plant will hamper, if not completely curtail full scale public hunting of axis deer and mouflon on the northwest end of Lāna'i, which has been managed by the Hawai'i Department of Land and Natural Resources under a memorandum of agreement with the landowner for many decades; and

WHEREAS, public hunting pressure reduces the damage caused by these introduced animals to sensitive native ecosystems, such as the Kānepu'u Preserve; and

WHEREAS, native Hawaiian species and ecosystems have intrinsic value, provide the material and spiritual foundation for the living Native Hawaiian culture, and help to sustain the people of Lāna'i; and

WHEREAS, native Hawaiian species and ecosystems on Lāna'i are part of the legacy we leave to our children and generations to come.

NOW, THEREFORE BE IT RESOLVED, that the Conservation Council for Hawai'i opposes the proposed industrial wind power plant for O'ahu on Lāna'i, which will harm native plants and animals, and destroy or degrade a substantial portion of Lāna'i; and

BE IT FURTHER RESOLVED, that the Conservation Council for Hawai'i opposes the proposed undersea cable from Lāna'i to O'ahu associated with the proposed industrial wind power plant on Lāna'i.



HOUSE COMMITTEE ON WATER, LAND & OCEAN RESOURCES
HOUSE COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION

February 10, 2012, 9:00 a.m.

Room 325

TESTIMONY IN SUPPORT OF HB 2523
Relating to Interisland Electric Transmission Cable Systems

Aloha Chairs Chang & Coffman, Vice Chairs Har & Kawakami and Members of the Committees:

This testimony is provided by Hawaii Interisland Cable LLC ("Hawaii Interisland Cable"), a joint venture between Pattern Energy Group LP and Bio-Logical Capital, LLC that was formed to explore an opportunity to interconnect Hawaiian Islands via electric transmission cable systems in a responsible manner. This key infrastructure would help Hawaii achieve its energy security goals and improve economic stability by transmitting abundant, fixed price renewable energy among the islands.

We appreciate the opportunity to submit testimony in support of HB 2523, the purpose of which is to establish the regulatory structure under which interisland undersea transmission cables can be developed, financed, and constructed on commercially reasonable terms, such as those upon which successful cable projects have been undertaken in several locations around the world. This measure affirms that a cable entity would be a public utility regulated by the Public Utilities Commission, and we believe public interest would support regulation and oversight by the PUC. Importantly, this bill does not specify the routing/location of the cables or the associated renewable energy generation sources, and it does not approve the interisland cable or the projects that would supply the cable with energy. HB 2523 would instead provide a platform for the development of the interisland cable project in the event that it goes forward.

Mahalo for this opportunity to testify.

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Tuesday, February 07, 2012 7:05 PM
To: WLOtestimony
Cc: babybird@hawaii.rr.com
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Katie Akiona
Organization: Individual
E-mail: babybird@hawaii.rr.com
Submitted on: 2/7/2012

Comments:

I oppose HB2523. Absolutely not justified at this time. Conservation first!

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Wednesday, February 08, 2012 6:29 AM
To: WLOtestimony
Cc: salapa@aloha.net
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Shirley Alapa
Organization: Individual
E-mail: salapa@aloha.net
Submitted on: 2/8/2012

Comments:

I strongly OPPOSE the undeasea cable, the turbines and anything else connected with the project. Put PV on all the homes on Oahu, and you could supply the overpopulated residents with all the power they need!

Shirley Alapa, 2935 Farrington Av. 96729.

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Wednesday, February 08, 2012 7:49 PM
To: WLOtestimony
Cc: lanceonlanai@yahoo.com
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM
Attachments: Regarding HB2523.docx

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Lance Anderson
Organization: Individual
E-mail: lanceonlanai@yahoo.com
Submitted on: 2/8/2012

Comments:

Regarding House Bill 2523,

Please vote against this legislation.

We are in a capitalistic system and HECO needs to bear the risks and expenses of the interisland cable if it happens. This is effectively CORPORATE WELFARE for Hawaiian Electric, a company with a market capitalization of \$ 2,279,678,040 (as of this morning.) They are far from a corporation in need of a bailout.

This bill would allow HECO to pass on all costs and all risks from an interisland cable to the state's ratepayers. The effect of "leveling" rates would effectively not lower rates on Lāna'i, but more likely substantially increase rates across the state. I live on Lāna'i and each time I open my electric bill, I am astonished at the rate I pay for the tiny amount of electricity my tiny "green" household uses.

I can only imagine how folks on O'ahu with air conditioning and large homes or worse elderly on a fixed income and old inefficient appliances would feel opening a bill from HECO with the amount of electricity they used based on rates similar to ours.

This legislation is also very premature. By the use of a programmatic EIS for the proposed wind farm on Lāna'i without all of the specific required EISs being completed first, the way is being paved for another boondoggle like the Superferry. Now is your chance to avoid being part of the next big multi-year money wasting news story. Ask any of our keiki and they will tell you that you cannot do a book report and then go back and read the book afterwards to gain the information for the report. Court challenges are almost assured and have a good likelihood of success as well they should if this negligent course is continued.

Does this really affect our dependence on foreign oil???

In order to answer this, we must consider how oil affects us. The majority of the impact on our economy is in two areas. Transportation is the largest, followed by the increase in cost of goods imported from outside the state. Neither of these two expenses will be affected by the project. Those are not affected at all by electricity in the islands, but by the cost of oil as it pertains to transportation. This would have some impact on our use of oil for electricity, but it has been grossly overstated. Right now, government policies and subsidies regarding the construction and depreciation of large scale wind power plants are all tilted to making this the method of choice for renewable power production. In Europe, where these technologies were pioneered and there are no artificial subsidies, this model is being dropped as it is now considered largely obsolete and not cost effective. The preferred model in most every recent study is one of distributed localized power generation. Due to the much smaller ecological footprint, more efficient smaller turbines and solar panels, and the minimizing of costly attenuation (the loss of current as it is transmitted long distances.) Time will prove this to be an outdated technology and Lāna'i will be left with devastated land. Truly reducing our dependence on oil would take a change in transportation in the islands first, followed by a change in how we get goods to Hawaii or better yet, a new emergence of manufacturing locally.

For the taxpayers and ratepayers, this question probably boils down to money. This is an enormous shift of wealth from the public to a handful of companies who will mostly send it out of state. Consider for a minute, Senate Bill 367 to have the ratepayers subsidize the cost of the cable with no limits. This cost currently estimated at \$1 Billion may well double as projects of this scope and complexity so often do. Please take a look at the state budget and consider what else we could do for \$2 Billion or better yet, how many jobs that could create (40,000 jobs at \$50,000 each.) What could it do for our schools? Or how could the same money be spent more wisely to address the oil dependence issue? I know that as legislators, you feel the pressures of the current economic climate in your consideration of most every decision. Balancing the state budget, investing in our schools, taking care of our Kupunas and getting our economy rolling again are all in the front of your thinking whenever you consider significant legislation.

Financially, this issue is significant.

We all support green energy, but it has to be fair, it has to make sense and be a wise decision financially, and it HAS to respect our common values.

Make all islands self-sufficient, able to live sustainably. Every rooftop on Oahu should have photovoltaic.

Please do not DESTROY Lānaʻi and Molokaʻi for Oahu's energy gluttony.

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Wednesday, February 08, 2012 4:02 PM
To: WLOtestimony
Cc: bondma@cs.com
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Michael Bond
Organization: Individual
E-mail: bondma@cs.com
Submitted on: 2/8/2012

Comments:

Dear Committee Chairs,

My family has lived in Hawaii for nearly 200 years, and this bill is one of the most destructive things that have happened to Hawaii since that time.

In my personal experience as the CEO of an international energy company, and as the consultant to numerous utilities, I have never seen a more fallacious, costly, unneeded and environmentally destructive proposed project than this one.

The potential cost of this proposed bill will cause a major increase in residential electricity rates, already the highest in the U.S., and causing financial hardship to families throughout Hawaii. It will also significantly increase commercial and industrial rates, placing our businesses and industries in a less competitive position.

The way to reach greater energy independence in Hawaii is not a multi-billion pork-barrel cable, but rooftop solar on a residential and commercial level, and serious reductions in transportation fossil fuel use, where most of Hawaii's fossil use and greenhouse gas emissions are derived.

This bill's impact on the U.S. National Humpback Whale Sanctuary, the famous Molokai reef, and the islands of Molokai and Lanai will be very negative and permanent, for no justifiable reason.

Any cable intended for Molokai or Lanai will supply intermittent energy only, which is of little use to Oahu.

Please do not attempt to use your position in government to destroy Molokai, Lanai, the National Humpback Whale Sanctuary. This is a pork-barrel boondoggle, and will come back to haunt those legislators who propose or endorse it.

It is a terrible time when the government turns against the people to enforce the will of big corporations.

Michael Bond
Bond Energy
Bond Investment Group
P.O. Box 511
Kaunakakai, HI 96748

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Wednesday, February 08, 2012 7:55 PM
To: WLOtestimony
Cc: Maggiedaub@yahoo.ca
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Margaret Daub
Organization: Individual
E-mail: Maggiedaub@yahoo.ca
Submitted on: 2/8/2012

Comments:

I strongly oppose HB2523.

many of us on Lanai feel this is being pushed through without much thought, except for the amount of money to be made by a few. Where is the EIS? The vast majority of people on Oahu seem to have no idea what this untested cable is going to do to there electric bulls, or that they will be paying for it.

A much cheaper way of using the trade winds would be to turn off all those air conditioners, open the windows and let the free trade winds cool your homes.

What would be lost and destroyed on Lanai would be a tragedy

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Wednesday, February 08, 2012 7:51 PM
To: WLOtestimony
Cc: jdethman@gmail.com
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: John Dethman
Organization: Individual
E-mail: jdethman@gmail.com
Submitted on: 2/8/2012

Comments:

Wind power is a fantasy; it is a huge taxpayer rip off. Please don't give my tax dollars to well-connected rich developers.

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Thursday, February 09, 2012 7:38 AM
To: WLOtestimony
Cc: rebecca_dethman@me.com
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Rebecca Dethman
Organization: Individual
E-mail: rebecca_dethman@me.com
Submitted on: 2/9/2012

Comments:

I oppose HB2523, aimed at setting up a regulatory scheme for an undersea cable. I live on the island of Lana'i and fear that the impact of the proposed cable on historic cultural sites, natural resources, beauty and the many endangered species inhabiting the island have not been calculated.

Thank you for your time and consideration.

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Thursday, February 09, 2012 8:08 AM
To: WLOtestimony
Cc: Fdoctolero@hHsc.org
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Support
Testifier will be present: No
Submitted by: Frances Doctoler
Organization: Individual
E-mail: Fdoctolero@hHsc.org
Submitted on: 2/9/2012

Comments:

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Tuesday, February 07, 2012 7:08 PM
To: WLOtestimony
Cc: jdougher@fuse.net
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: J. Dougherty
Organization: Individual
E-mail: jdougher@fuse.net
Submitted on: 2/7/2012

Comments:

A cable should only be considered for a firm source of energy like geothermal. Do not waste taxpayer money on this project. Redirect those funds to solar voltaic, solar water heaters, and OTEC and wave energy. Cable should be a last resort after everything else is in place.

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Wednesday, February 08, 2012 9:52 PM
To: WLOtestimony
Cc: Mhanapik@gmail.com
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Mapuana Dudoit
Organization: Individual
E-mail: Mhanapik@gmail.com
Submitted on: 2/8/2012

Comments:

I oppose HB2523, aimed at setting up an undersea cable. No study has been done to research the environmental impact the cable will have on the environment. I don't want this cable to ruin our reef, this is where we fish. For many being able to fish for their family helps offset the high cost of living on Molokai. If you ruin the reef, we will lose fish. No study has been done to see if there are any historical sites that would be ruined by these cables. A lot has already been taken from Hawaiian's, please don't do something that will take away from what we have left of our history. We don't know if there are any historical sites that are valuable. Please defer this premature bill.

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Tuesday, February 07, 2012 8:52 PM
To: WLOtestimony
Cc: bduvy@hotmail.com
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Betty Duvauchelle
Organization: Individual
E-mail: bduvy@hotmail.com
Submitted on: 2/7/2012

Comments:
Do not dynamite our precious reef. Such damage can never be undone.

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Wednesday, February 08, 2012 5:14 AM
To: WLOtestimony
Cc: noraespaniola@yahoo.com
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Leonora Espaniola
Organization: Individual
E-mail: noraespaniola@yahoo.com
Submitted on: 2/8/2012

Comments:

"I OPPOSE HB2523. As you may know, there are few people on the Molokai who believe it is their responsibility to take care of the land and surrounding ocean from destructive forces that will affect its natural resources. I am one of those few. Our eyes are on the future generation, for the children who will suffer the consequences of my action or lack of action to this bill. Are their enough calculated results to the impact it will have on the elements of the sea & land particularly our food source and the open beauty of landscape (turbines)? I think not. I oppose the process for my children and children's children, please consider other renewable means and defer this bill.

Mahalo

Leonora Espaniola
Hoolehua, Molokai HI

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Thursday, February 09, 2012 8:18 AM
To: WLOtestimony
Cc: lfab@wave.hicv.net
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Len Fabrao-Wong
Organization: Individual
E-mail: lfab@wave.hicv.net
Submitted on: 2/9/2012

Comments:

I oppose HB2523 which is designed to put regulations into position for undersea cable systems. It is inevitable & unrefutable that there will be impact on Lana'i's pristine environment and if there has been an EIS statement prepared, it will have been, undoubtedly, inadequate. There are many uncharted historical and cultural sites, innumerable endangered species - some only indigenous to this island's landscape, and incomparable beauty - unmatched anywhere in the world. Please stop it.

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Wednesday, February 08, 2012 6:52 AM
To: WLOtestimony
Cc: lisa.m.galloway@gmail.com
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Lisa Galloway
Organization: Individual
E-mail: lisa.m.galloway@gmail.com
Submitted on: 2/8/2012

Comments:

What an economic and environmental fiasco this bill represents! I strongly OPPOSE this bill, which is designed to make Hawaii's middle and lower classes poorer still with higher energy bills, while giving energy profits to the rich! We have far better options to consider, and the haste to fix our energy crisis is no excuse for investing heavily in yet another very temporary solution that will ruin lands and reefs irrevocably. The solutions lie in all islands - especially Oahu - seriously reducing energy use & gas/oil consumption, and in investments in a cable system that can send/receive base or firm renewable energy (geothermal, OTEC and wave/ocean technology) as soon as possible, if a cable is truly necessary. Cable for intermittent wind is not cost effective and will be obsolete when firm sources are available. These other options will also provide jobs for Hawaii residents which the proposed wind project this bill for cable is linked to will not do. I implore the committee to vote AGAINST this bill!

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Wednesday, February 08, 2012 3:56 AM
To: WLOtestimony
Cc: buzz.green@gmail.com
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: T.B. Green
Organization: Individual
E-mail: buzz.green@gmail.com
Submitted on: 2/8/2012

Comments:

I find it hard to believe that this is being considered without complete study about the effects that a high voltage line will have passing through a marine sanctuary.

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Wednesday, February 08, 2012 9:03 AM
To: WLOtestimony
Cc: iloveroury@yahoo.com
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Summer Hanaoka
Organization: Individual
E-mail: iloveroury@yahoo.com
Submitted on: 2/8/2012

Comments:

I oppose HB2523. Why does Molokai have to pay the price for consumerism of other islands? I do not want to see Molokai become like the rest of the islands. Is there any regulatory system for how much energy is used on Oahu?

Summer Hanaoka
Hoolehua, Molokai HI

Adolph Helm

P.O. Box 391 Hoolehua, HI 96729

Phone: 808-567-6580

Testimony: HB2523

COMMITTEE ON WATER, LAND, & OCEAN RESOURCES

Rep. Jerry L. Chang, , Chair, Rep. Sharon E. Har, Vice Chair

COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION

Rep. Denny Coffman, Chair, Rep. Derek S.K. Kawakami, Vice Chair

Measure: RELATING TO INTERISLAND ELECTRIC TRANSMISSION CABLE SYSTEMS.

Establishes a regulatory structure for the installation and implementation of an interisland high voltage electric transmission cable system and for the construction of on-island transmission infrastructure.

Date: Friday, February 10, 2012

Time: 9:00 am

Place: Conference Room 325 State Capitol 415 South Beretania Street

Position: Oppose

Chairpersons Chang, Coffman and Vice Chairs Har, Kawakami and Fellow Committee Members:

Aloha,

My name is Adolph Helm a Molokai resident, homesteader and founding member of Aloha Aina Anahaki Mo'omomi (A.A.M.A). A.A.M.A is a grass roots Hawaiian Homestead organization. Along with the Department of Hawaiian Homelands and the Molokai Homestead community we successfully supported a land use policy change initiative for the Mo'omomi and Anahaki area. This initiative protects the area in perpetuity from industrial and commercial development including large scale wind turbine factories and electrical cables. The land use change also allows the Hawaiian Homestead community to manage the area, its rich cultural sites, and ocean and land resources.

HB2523 is not in the best interest for Molokai. The potential impacts of a high voltage cable running through the ocean environment near our island may affect an already pristine marine sanctuary, the longest fringing reef north of Australia and the Penguin Banks. The Whales including other marine life and creatures could be harmed from the undersea cable's electromagnetic waves. The damage and unintended consequences may be beyond repair.

In addition the developer will have the luxury of tax subsidies, grants, low cost loans and higher consumer electric rates to pay for the undersea cable and the big wind proposal for Molokai and Lanai. The financial risk for the developer and the utility company are none while the consumer

will be saddled with higher electric rates to pay for this project. The people on Molokai believe the economic, social, cultural and environmental impacts far outweigh the benefits of this project. We also believe in exhausting every means for each individual island to achieve energy self-sufficiency first before considering interconnecting the Oahu, Maui and Hawaii County grids.

With I Aloha Molokai (IAM) leading the outreach effort to educate the community regarding alternatives to big wind and the undersea cable I hope you take into consideration Molokai's current position. State lawmakers have witnessed and heard the community speak overwhelmingly in opposition. Numerous surveys, petition drives (over 2000 signatures), IAM's 800 plus members, the state wide Hawaiian Civic Clubs, the Molokai 'Aha Kiole, the Ke Ala Pono Alliance and others on Molokai, throughout Hawaii, the mainland and around the world are strongly opposed to the big wind and undersea cable proposal.

There are so many alternative ways to help Hawaii become energy self sufficient. Spending billions of dollars on the big wind and undersea cable project to meet our clean energy goals is unnecessary, a waste of our tax payers money and the implication and damage to the last Hawaiian Islands (Molokai and Lanai) will be profound and devastating.

My roof top PV electric system cut my electric utility cost by 80%. Perhaps as lawmakers we should shift the focus from a centralized monopoly utility control system to more of a distributed decentralized utility. It makes economic sense and directly helps in our effort to reduce our carbon footprint and reliability on imported oil.

An overwhelming majority of those that submitted testimony for SB 2785 were in opposition. I suspect it will be the same for HB2523. I humbly ask that you do the right thing and support the wishes of the people in opposing HB2523.

Yours truly,

Adolph Helm

COMMITTEE OF ENERGY AND ENVIRONMENT

Senator Mike Gabbard, Chair
Senator J. Kalani English, Vice Chair

COMMITTEE ON COMMERCE AND CONSUMER PROTECTION

Senator Rosalyn H. Baker, Chair
Senator Brian T. Taniguchi, Vice Chair

Testimony from an Independent Voice Of Reason, Janeel T. T. Hew
In Opposition of SB 2785 (*HB2523*) Inter- Island Cable

Greetings, Senators and Committee Members,

My name is Janeel Hew, and I come before you through words beheld with respect for your positions and responsibilities. I do not underestimate your ability to understand the potential impact of your decision making roles. With that respect I believe that you are all in agreement that in order to make such important decisions, all facts and research should be brought to the table prior to any voting. For in your particular positions an ignorant vote holds a high potential for very negative impacts that have the ability to long surpass your terms in Office.

That having been said, I strongly oppose this Bill as it does not allow for proper decision making evaluation due to lack of much needed oceanic research on the immediate and long term effects. It is my opinion it contains information that is stated as facts, that are in fact not true or have yet to be so proven, once again due to lack of information and/or research. I will not undermined your intellect by assuming that you are not aware of this lack of research as being required prior to your ability to making an informed vote. I do however, understand that the pressure is on by our Governor and those who would profit by this. Therefore, I offer my words as a voice of reason...

"To pass this Bill would be as correct as blindfolding our children and then directing them to walk toward the cliffs, not knowing if their fall is a few inches or to their death."

I have read the testimonies in support and I am not impressed nor am I moved in my opposition. This Bill asks you to set the framework, yet it offers you none of the proper tools to do so. Your responsibility to protect the environment is not lessened by an Environmental Impact Statement not being required by law for this Bill. On the contrary it has strengthened your responsibility to protect it. Oceanic vulnerabilities can only be defused by anticipating impacts decades before their manifestations. Before you create the framework for a door to be open for developers and financing to the state to inter- connect Islands that were not born connected for the purpose of sharing energy...I challenge you to fulfill your decision making roles with the responsibility of knowledge forthright.

I oppose the Undersea Cable, and Big Wind. Although there are those who would other wise try to give the impression that this Bill is not connected it is public knowledge that our Governor is pushing for the Wind Turbines to proceed and therefore there is a connection for his agenda.

I will not waste my time nor yours with words contained in this Bill, for those words have already been stated and read. But rather I word ask you to seek out the words and information that is

truly of importance...The ones you have yet to receive!

SB 2785 (HB2523) , should not be passed. The unknown factors are much too dangerous to allow this door to be opened. There are other options that don't call for blindfolds!

I thank you for your time and consideration of my words. I pray that you will make a decision that is based on facts and study findings and not on financial gains. Please vote against this Bill, make a choice that reflects your responsibility in your role as our Representatives. Let your vote stand as one that you and the people of Hawaii can live with and afford in more ways than money.

Mahalo.
Janeel T.T. Hew

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Tuesday, February 07, 2012 5:39 PM
To: WLOtestimony
Cc: jankaopuiki@yahoo.com
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Janice Hill
Organization: Individual
E-mail: jankaopuiki@yahoo.com
Submitted on: 2/7/2012

Comments:

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Tuesday, February 07, 2012 6:49 PM
To: WLOtestimony
Cc: mmccann@hotmail.com
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Mary Hogan
Organization: Individual
E-mail: mmccann@hotmail.com
Submitted on: 2/7/2012

Comments:

How can we even prepose an undersea cable through the whale sanctuary and longest reef in the country before ensuring that we will have a firm source of energy (geothermal) to transmit through it? Develop geothermal on the Big Island and ensure that a cable can actually be laid from the Big Island to Maui.....then approach the idea of a whole island chain connection. Do not run a cable between Oahu and Lanai that will guarantee the dynamiting of 1/4 of an island for no good reason. This is an action without conscience!

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Tuesday, February 07, 2012 8:39 PM
To: WLOtestimony
Cc: diane@jlcbrain.com
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Diane and Eric Jensen
Organization: Individual
E-mail: diane@jlcbrain.com
Submitted on: 2/7/2012

Comments:

“ This is an irresponsible waste of taxpayer money that will destroy the land and further erase the culture and history of native Hawaiians. O`ahu needs to be accountable for its excessive use of energy and needs to reduce, reuse and recycle before turning to the other Counties for its energy needs!”

Barbara "Makaala" Kaaumoana
POB 1205 Kilauea, HI 96754
808-828-1205 phone
808-431-4444 fax
makaala@hawaiian.net

February 8, 2012

**Testimony in Strong Opposition
HB 2523**

Aloha Chairs Chang and Coffman, Vice Chairs Har and Kawakami, and Committee members,

I live on Kaua'i. My family lives in the old style. We live frugally and use as little electricity as possible to keep our costs down. We were taught to live "lightly on the land", to not take more than we need and not to waste. We were also taught to be self reliant and take care of our ohana before asking for help from others. We were also taught to stay in our own place, not take from others. I believe these values are as important today as in the past.

I know many folks on O'ahu that were taught the same way. I believe the people of O'ahu can do better about conserving those resources they were given and can reduce the amount of electricity they use. I believe they know they should do all they can first before asking to take from someone else. I believe they know that their needs should not cause strain or harm to others.

HB 2523 does not provide any opportunity for O'ahu folks to try to do better, take care of themselves or to not harm another place to satisfy their desires. We do not know what potential harm may be done to the sea, land or other resources in the way of this undersea transmission. We do know that many on Lana'i are very concerned about the possible impacts, yet unknown.

There is too much we do not know to support this concept now. There is much to learn and many things to try before we do this, the most potentially harmful thing of all.

Me ka pono,



har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Wednesday, February 08, 2012 6:03 PM
To: WLOtestimony
Cc: geekahn@gmail.com
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Gregory Kahn
Organization: Individual
E-mail: geekahn@gmail.com
Submitted on: 2/8/2012

Comments:

As a resident of Molokai, I strongly oppose the undersea cable for myriad reasons, including environmental, financial, and feasible. I have spent the last year methodically researching this proposal, concluding that solar solutions, such as those undertaken by Sempra, Chevron Energy Solutions, and solar park firms, will easily meet the stipulations set forth by the Hawaii Clean Energy Initiative, without the rate payers and taxpayers footing the bill. Requiring the rate payers and taxpayers to subsidize a one billion dollar undersea cable which has severe environmental consequences and uncertain returns does not best serve the citizens of Hawaii.

February 8, 2012

TO:

COMMITTEE ON WATER, LAND, & OCEAN RESOURCES

Rep. Jerry L. Chang, Chair

Rep. Sharon E. Har, Vice Chair

COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION

Rep. Denny Coffman, Chair

Rep. Derek S.K. Kawakami, Vice Chair

FROM:

Lailani Kahn

Resident, Molokai

Dear Representative Chang, Representative Coffman, and other members of the Committee on Water, Land and Ocean Resources, and the Committee on Energy and Environmental Protection,

I am a resident of the island of Molokai and I am strongly opposed to the proposed Interisland Electric Transmission Cable Systems and HB2523.

The National Oceanic and Atmospheric Administration (NOAA), National Marine Fisheries Service (NMFS), and the United States Fish and Wildlife Service (USF&W), and the Associate of Hawaiian Civic Clubs have all expressed serious environmental and cultural concerns that I'm sure you are already aware of.

Meanwhile, the United States Environmental Protection Agency has recommended that **other options**, aside from this proposed system, be investigated "as early as possible." My concern is that it appears many (including the Governor, DBEDT, and the PUC) have already decided that this is the only option to pursue. I have not seen any information to demonstrate that the implementation of solar systems/photovoltaic canopies across all of Oahu's high rise and residential buildings has been considered as a serious alternative which would avoid the need for pursuing an undersea cable. I understand that solar is being implemented in Pearl Harbor, the new Pearl Ridge Mall, and the Oceanic Time Warner headquarters. These agencies/corporations have made this *their* choice above all others. Why can't this work for Oahu as a whole? THIS would be the alternative of choice if reducing fossil fuel use, increasing jobs and saving ratepayers money were truly the primary concerns. The inter island cable will require such specific expertise that it seems unlikely that this project will generate a great number of jobs for Hawaii compared to other alternatives. The cost of the cable installation far exceeds the costs associated with solar/PV projects and it is my understanding that the HECO ratepayers would be

saddled with this added cost and that no one knows for sure what the true cost will be beyond "ball park figure" estimates.

Oahu still has a great capacity for pursuing wind, wave, and solar energy on it's island. With all of the natural disasters that our globe has been experiencing, and the likelihood of more in the future looming, wouldn't it be wiser to have each island take advantage of it's own renewable resources first, before considering an undersea cable? With all these available and realistic alternatives, and given our current economic situation, it is unclear to me why the undersea , estimated to cost \$1 Billion, should be pursued.

Robbie Alms has argued that neighbor island have much more resources and very little demand and that the theory is to bring the power from these resources back to Oahu where it is needed. If only it were as simple as that. This approach does not consider the great cultural and environmental costs for the neighboring islands to provide these resources to Oahu. Worse still, the undersea cable and industrial wind turbine proposal appears to benefit HECO and it's shareholders more so than the ratepayers.

I am very concerned that in an effort to support Big Wind and the undersea cable, other realistic and important energy sources, that may not necessarily generate as much corporate and investor profit, are not being seriously investigated. I hope that an open and transparent process to examine these alternatives, that would not require an expensive and damaging undersea cable, be established before committing the State's resources to any project, especially the detrimental project proposed for the islands of Lana'i and Moloka'i. To date, the Draft Programmatic EIS that was scheduled to be released in 2011 has not been shared, so the public has no environmental impact information to review.

Thank you for your consideration. I sincerely hope that you will take to heart the testimony received and postpone the premature HB2523 so that these other energy alternatives can be explored and understood. Let the State of Hawaii consider all of the options and determine the wisest course for our future together.

Sincerely,
Lailani Kahn

COMMITTEE ON WATER, LAND AND OCEAN RESOURCES

Rep. Jerry L. Chang, Chair

Rep. Sharon E. Har, Vice Chair

COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION

Rep. Denny Coffman, Chair

Rep. Derek S.K. Kawakami, Vice Chair

DATE: Friday, February 10, 2012

TIME: 9:00 AM

PLACE: Conference Room 325

BILL: HB2523

Dear Representatives:

HB2523, which would facilitate financing and construction for an interisland undersea cable, is seriously flawed legislation.

It is premature, opaque, would prove obscenely expensive for Hawaii's ratepayers and all taxpayers, while turning an indifferent eye to the fundamental foundation of Hawaiian culture: the social and environmental impact on its communities.

It is simply the wrong answer to the right question.

Hawaii must attain energy independence; that part of the proposed legislation is correct. But how does an undersea electric transmission cable linking us all together provide "...increased energy security"? Would it not in fact make us more vulnerable? Either by accident or design, any break or disruption to an interisland undersea cable would clearly endanger the energy security of us all.

This bill positions the proposed undersea cable as providing every island "with backup power." How will it do that, when none of the power produced by the intermittent wind plants proposed on Lana'i and Moloka'i stays on those islands? Are we seriously considering taking over and irreparably destroying a significant amount of our Neighbor Islands so that O'ahu has "backup" power? Is there no other solution to our energy challenges then turning Lana'i and Moloka'i into industrial batteries for O'ahu?

The preamble to HB2523 states that this inter-island undersea cable "has been identified as the most effective and efficient means" to get more large-scale renewables "into a stable grid environment[.]" Identified by whom? Where are studies to support this? [Note: unidentified "economic analyses" last session said Big Wind was the "cost-effective" way to meet energy goals in the first version of this bill, SB367.]

In truth, the entire process surrounding this cable has been opaque and riddled for years with hidden reports and documents, kept private by HECO and the administration.

Friends of Lana`i and Representative Cynthia Thielen asked for the release of the tax-payer funded financial analysis of this project, prepared by Booz-Allen, for well over a year.

Senator Roz Baker was assured by Department of Energy representatives at the beginning of last year's legislative session that it would be released no later than February, 2011. Today is February, 2012, and Senator Baker still hasn't seen it; no one has. HECO documents remain unavailable to the public eye. Costs are hidden. Deals made are hidden. This proposed legislation compounds that opacity; it does not provide the necessary transparency that should be the underpinning of our state's policy-making.

In fact, so much is unknown about this proposed cable that we urge lawmakers to defer HB2523. A Draft Programmatic EIS, initiated in 2010 and scheduled to have been released in December, 2011, has still not seen the light of day. Not a single environmental impact statement has been completed or published; not a single permit has been applied for or issued.

To further illustrate the prematurity of this bill, note that a draft request for proposal (RFP) released by Hawaiian Electric Corporation (HECO) in October, 2011, already seeks bids from cable providers, along with 200MW or more of renewable power for O`ahu. This RFP isn't likely to be released in its final form until March or April, and responses to it are not anticipated until well after this session is *sine die*, in August, 2012. It is possible that there will be sufficient bidders seeking to provide power on O`ahu, for O`ahu, that would render this legislation unnecessary.

Underneath the lofty words of purpose, this bill essentially benefits HECO's corporate structure. HECO cannot afford a project of this magnitude, due to its one-step-above-junk-bond-status, so as written, HB2523 simply exempts HECO from any and all risk in constructing this cable, guarantees that ratepayers cover the costs of the development of this cable, and assures their stockholders of a favorable method of accounting for this income.

The state cannot afford a project of this magnitude either, since it's essentially breaking even. So to whom do we turn to fund it? Make no mistake; it will be us.

But there is much, much more at stake with this legislation. This proposed undersea cable, and its partner, Big Wind on Lana`i, has caused an irreparable fracture in our community. Families are split. Friends are split. Animosity has reached the physical level, as threats have moved from verbal to physical. Intimidation is rampant. The owner of 98% of the island, mainland real estate developer David Murdock, unabashedly threatens to "close down" the island, even when his hotels are mortgaged and the only source of income to pay his debt. Rumors circulate that Lana`i's only hospital, a state owned and run facility, will close. We, the Lana`i community, have become pawns in an economic grab based on pure greed, not an effort to be self-sufficient.

It does not matter whether Lana'i is taken over by 57 or 174 turbines, the intermittent energy created by these turbines would provide so little electricity to O'ahu as to make us all ask -- is the destruction of an island -- physically, socially, and culturally -- worth it? I say NO.

This legislation, at this time, is premature and will prove dangerous to all our residents. The "regulatory scheme" it contemplates is just that: a "scheme" to insure profit to investor-owned entities. The State of Hawaii simply does not need this legislation this year.

Please kill this bill.

Mahalo for your consideration.

Robin Kaye
Friends of Lana'i
P.O. Box 631739
Lana'i City, HI 96763
friendsoflanai@gmail.com

COMMITTEE ON WATER, LAND & OCEAN RESOURCES

Rep. Jerry L. Chang, Chair
Rep. Sharon E. Har, Vice Chair

COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION

Rep. Denny Coffman, Chair
Rep. Derek S.K. Kawakami, Vice Chair

In **Opposition** to HB2523, Relating To Undersea Cable
Hearing: February 10, 2012, 9:00 a.m.

Aloha kakou, Chairs Chang and Coffman and Members of the Committees:

Another year, another session, and (surprise) -- another cable bill attempt in the Legislature! Perhaps it would be useful to the Committees to look at last year's bill, SB 367, and see what, if anything, is different this year:

- Does HB2523 still exempt HECO from counting surcharges collected from a cable company as income, and allow HECO to collect a fee for acting as the cable company's agent?
- Does HB2523 still permit HECO to "not complete the on-island transmission infrastructure" while nonetheless recovering the costs from ratepayers?

[But note: last year SB367 said HECO "MAY recover;" this year HB2523 says HECO "SHALL recover"]

- Does HB2523 still facilitate HECO's purchase of the interisland undersea cable after the ratepayers have funded it?
- Does HB2523 still allow HECO's "revenue requirement" (including an allowed rate of return) to be protected through means such as "automatic adjustment clauses"?
- Does HB2523 still rely on the renewable portfolio standards (RPS) of §269-92 as a hammer to "require" an interisland undersea cable?

[But note: exemptions available for failure to meet the RPS remain large enough to drive a semi-truck through, and any penalty assessed would be paid by HECO shareholders, not ratepayers]

- Does HB2523 still insulate potential cable developers by allowing "non-recourse project financing"?

So what's new this year?

- HB2523 says that an interisland undersea cable would allow all the islands to provide "each other with back-up power" but does not say how, nor does it require bi-directional energy flow.
- HB2523 says that an interisland undersea cable "has been identified" as the "most effective" way to bring "utility-scale renewables" into a "stable grid environment," but does not say who "identified" it as such, nor provide studies supporting this contention.

[But note: last year it was "harnessing the wind resources" that was the "relatively cost-effective" means to achieve those pesky RPS, according to SB367....hmmm....]

- HB2523 says that an interisland undersea cable would give us "increased energy security," but it does not explain how this cable would accomplish this.

[PLEASE NOTE: when an earthquake in 2006 caused massive island-wide power outages on O`ahu, not a single light bulb dimmed in Lana`i City.]

In closing:

- Do the costs of an interisland undersea cable remain unknown?
- Do the placement route and environmental impacts and costs of laying an interisland undersea cable remain unknown?
- Is HB2523 premature?

Please HOLD this bill. SB 367 was premature last session, and HB2523 is premature this session.

Mahalo for the opportunity to comment,

Sally Kaye
Lana`i City

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Wednesday, February 08, 2012 5:36 PM
To: WLOtestimony
Cc: Mugs122257@aol.com
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Margaret Kitamura
Organization: Individual
E-mail: Mugs122257@aol.com
Submitted on: 2/8/2012

Comments:

Please stop this bill until there is legitimate effort to complete the mandatory environmental Impact study .

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Thursday, February 09, 2012 9:31 AM
To: WLOtestimony
Cc: joannawalter@comcast.net
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Joanne Laughton
Organization: Individual
E-mail: joannawalter@comcast.net
Submitted on: 2/9/2012

Comments:

I maintain a residence on Lana'i and I am adamantly OPPOSED to the undersea cable! And, don't understand how you can be thinking of destroying our beautiful island with wind turbines let alone endangering the whale and dolphin sanctuary. PLEASE DEFER THIS PREMATURE BILL.

Joanne Laughton
Lana'i City, Hawaii

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Wednesday, February 08, 2012 3:57 AM
To: WLOtestimony
Cc: peggy@bondcarr.com
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Peggy Lucas
Organization: Individual
E-mail: peggy@bondcarr.com
Submitted on: 2/8/2012

Comments:

This bill (SP2785 and HB2523) provides open-ended rate increases to our already high electricity bills. It would appear that this bill would authorize the electric utility (i.e. HECO) to purchase an interisland cable system for a price that would include all expenditures which the cable company incurred. This would be a no-risk investment for the cable company at the expense of the rate payer.

In determining if a cable would indeed reduce Hawaii's fossil fuel dependency, one would have to include an evaluation of the fossil fuel use for the production of the cable and the associated components needed and used, transportation of the cable to Hawaii, construction of the installation equipment, installation of the cable and decommissioning of the cable. This total would then be spread across the life of the cable. Additionally the fossil fuel used for maintenance, monitoring and repair has to be considered, as well as the back-up generation required for some types of renewable energy.

The bill has not discussed "routes" and it should. Most under consideration go through the National Humpback Whale Marine Sanctuary. Cable laying is specifically prohibited in NOAA Marine Sanctuaries and there is no research to prove that the cable would not adversely affect the protected humpback whales. NOAA has stated: "The impacts of the proposed power cable on protected marine species is a concern for our agency, both from short- and long-term impacts of the cable installation, as well as the potential long-term effects of high-level electromagnetic fields emanating from the cable on the seafloor. ...The acoustic impacts could also disrupt the foraging behaviors of the Hawaiian monk seal, a critically endangered species whose populating numbers are still declining...PRD is concerned about the potential for long-term impacts from electromagnetic fields. These impacts are not well understood and it is unclear exactly what effects these fields may have on protected marine species, their prey, and on their predators such as sharks. ...the effects of high electromagnetic fields in the marine environment should warrant a precautionary approach until further studies can answer these questions."

Since fossil fuel calculations have not been done, the rate payers cannot be shown that there is a clear benefit to them, and the cable could harm an endangered species, this bill should be withdrawn.

Mahalo,
Peggy Bond
Ocean Engineer/Tektite II Aquanaut

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Tuesday, February 07, 2012 5:44 PM
To: WLOtestimony
Cc: redahi@hawaii.rr.com
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: B.A. McClintock
Organization: Respiratory & Environmental Disabilities Assc HI
E-mail: redahi@hawaii.rr.com
Submitted on: 2/7/2012

Comments:

I have not hear word one on the health impact of turbines of the communities these will be placed in. Please, at the very least, do some research on the communities already using this technology. There are headaches, nose bleeds, loss of concentration, among other health problems being reported. The strobe effect during the daylight hours when the sun shines on the blades is problematic to those who have seizure disorders. Even people who were pro turbines in these communities are now against them. There are so many other ways to spend billions of our precious dollars. This is definitely not one of them! Thank you for listening.

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Thursday, February 09, 2012 8:02 AM
To: WLOtestimony
Cc: Jmockchew@yahoo.com
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Julieann Mockchew
Organization: Individual
E-mail: Jmockchew@yahoo.com
Submitted on: 2/9/2012

Comments:

I strongly oppose this bill.

I don't see the value in giving our community the burden of destroying the land to fill a few pockets

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Tuesday, February 07, 2012 8:29 PM
To: WLOtestimony
Cc: molokaimama@hotmail.com
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Shirlee Newman
Organization: Individual
E-mail: molokaimama@hotmail.com
Submitted on: 2/7/2012

Comments:

How can you even entertain the idea of desecrating two islands to bring more energy to Oahu, that has chosen to overbuild, overuse, overdo on a grand scale and then expect others to support their choice, having already demolished the sacredness of their island? Moloka'i and Lana'i cannot each be asked to give up their sanctuary, two of last true Hawaiian islands, when there are other ways to find and develop energy on Oahu (solar, wave, geothermal, etc.). Start getting creative on your own turf, Oahu, and tell the great, grand pubas to leave us alone. There seem to be too many dollar signs in too many pockets and lack of concern to preserve what will never be known again.

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Tuesday, February 07, 2012 6:38 PM
To: WLOtestimony
Cc: kkn@infionline.net
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Karen Nygaard
Organization: Individual
E-mail: kkn@infionline.net
Submitted on: 2/7/2012

Comments:

I oppose the undersea cable and wind turbines proposed for Lanai and Molokai. The landscape is the entire reason to come to the islands. The beauty does not compare. I am coming this week for the 11th time from North Dakota and am bringing 4 family members who have never been there. The impact of the cable and turbines will be tremendously ruinous both to the environment and to the people who live there.

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Tuesday, February 07, 2012 6:44 PM
To: WLOtestimony
Cc: sosako@wave.hicv.net
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Susan Osako
Organization: Individual
E-mail: sosako@wave.hicv.net
Submitted on: 2/7/2012

Comments:

I oppose HB2523. If we are to have an undersea cable, then it must be reserved until such time as geothermal, a firm source of energy can be transmitted from island to island on the cable. To use Lanai as a sacrificial lamb to enable one segment of the cable to be built from Oahu to Lanai to transmit maybe 20 MW of energy to Oahu is criminal. There is so much that can be done to actually produce more than 20 MW by means such as solar water heaters, solar voltaic and wave energy...all of which are eco friendly. Do not approve this insane project at this time.....there is no reasonable rationale for it unless you are obligated to put a few hundred million more dollars in David Murdock's pocket at the expense of all the people of Hawaii.

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Wednesday, February 08, 2012 10:54 AM
To: WLOtestimony
Cc: watrbaby@aloha.net
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Pohakamalamalama P. Palmer
Organization: Individual
E-mail: watrbaby@aloha.net
Submitted on: 2/8/2012

Comments:

KOKUA keep this worthless crap out of MY Whale Sanctuary, off MY reefs here on Molokai, 40 foot turbins OFF MY island and out of this sacred place. IT WILL NOT WORK. WIND IS NOT VIABLE. STOP WASTING MY MONEY.

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Wednesday, February 08, 2012 9:16 AM
To: WLOtestimony
Cc: kumimijoe@aol.com
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Joseph Plocich
Organization: Individual
E-mail: kumimijoe@aol.com
Submitted on: 2/8/2012

Comments:
This is a pending disaster for Moloka'i...
Strongly oppose

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Tuesday, February 07, 2012 6:56 PM
To: WLOtestimony
Cc: njricco@gmail.com
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Nancy Richerson
Organization: Individual
E-mail: njricco@gmail.com
Submitted on: 2/7/2012

Comments:

I oppose this bill. The cable would be the only high voltage line to run through a marine sanctuary in the country.

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Tuesday, February 07, 2012 8:43 PM
To: WLOtestimony
Cc: r.schaumann@googlemail.com
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Renate Schaumann
Organization: Individual
E-mail: r.schaumann@googlemail.com
Submitted on: 2/7/2012

Comments:

There is not a single study on costs or environmental impact. Until there is a firm source of energy planned, how can this economic travesty even be considered.

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Wednesday, February 08, 2012 3:59 AM
To: WLOtestimony
Cc: matthew.severns@gmail.com
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Matthew Severns
Organization: Individual
E-mail: matthew.severns@gmail.com
Submitted on: 2/8/2012

Comments:

He puko'a kani 'aina.

'Aina, ke ola o na kanaka 'oiwi, cannot be forsaken for the kala.

It is your duty to protect that which cannot protect itself.

The 'aina is all you can leave behind when you go. Leave it well.'

We **OPPOSE** HB2523, a bill aimed at setting up a regulatory scheme for an undersea cable. We live on LANA`i, and fear that the impact of the proposed cable on historic cultural sites, natural resources, beauty and the many endangered species inhabiting the islands has not been calculated. This is an irresponsible waste of taxpayer money that will destroy the land and further erase the culture and history of native Hawaiians. O`ahu needs to be accountable for its excessive use of energy and needs to reduce, reuse and recycle before turning to the other Counties for its energy needs!

We also oppose any undersea cable that is aimed at facilitating an industrial power plant on Lana`i or Moloka`i. Hundreds of 400' turbines will not appeal to any tourist or visitor who visits these lovely rural islands – all for an incredibly inefficient alternative energy source! We **OPPOSE** any measure that would set in motion a process before the impacts and costs to the islands are fully known.

Please defer this premature bill.

Michael and Diana Shaw

P. O. Box 631814

Lana`i City, HI 96763

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Tuesday, February 07, 2012 7:00 PM
To: WLOtestimony
Cc: chris_snay@identisys.com
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Steven C. Snay
Organization: Individual
E-mail: chris_snay@identisys.com
Submitted on: 2/7/2012

Comments:

HB 2523 is a national security risk at this time. When decentralization is the key, HB 2523 would provide an unprecedented target leaving an entire state in the dark. What are you thinking. Put the decentralized backups in place first and then evaluate the need for this cable.

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Tuesday, February 07, 2012 8:00 PM
To: WLOtestimony
Cc: Uistokes@gmail.com
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Uilani Stokes
Organization: Individual
E-mail: Uistokes@gmail.com
Submitted on: 2/7/2012

Comments:

I oppose HB2523! This is an irresponsible waste of taxpayer money that will destroy the land and further erase the culture and history of native Hawaiians. O`ahu needs to be held accountable for its excessive use of energy and needs to reduce, reuse and recycle before turning to the other Counties for its energy needs!

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Thursday, February 09, 2012 8:06 AM
To: WLOtestimony
Cc: cherry28tolentino@yahoo.com
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Support
Testifier will be present: No
Submitted by: Charita tolentino
Organization: Individual
E-mail: cherry28tolentino@yahoo.com
Submitted on: 2/9/2012

Comments:

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Wednesday, February 08, 2012 6:05 AM
To: WLOtestimony
Cc: trappster@gmail.com
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Kaliko Trapp
Organization: Individual
E-mail: trappster@gmail.com
Submitted on: 2/8/2012

Comments:

Aloha. Please do not let the undersea cables be laid, and also do not allow for these huge windfarms to pop up around the islands. We have plenty of SUN here in Hawai'i on our leeward sides to provide enough electricity to hugely reduce our reliance upon imported fuels. I think people in general would support more solar on our rooftops, especially if big businesses get involved (like Costco did) FOR THEIR OWN BENEFIT in the long term (i.e. reduced operating costs in the long-term). Please also see my short points below:

- (1) users over a certain wattage should be required (subsidised perhaps with money saved from the proposed cable project) to put solar panels on their roofs and reduce electrical use;
- (2) solar-panel equipped buildings/houses should be able to send electricity back into the grid for the good of the whole system;
- (3) O'AHU should solve its own growth problems with RESPONSIBLE and REDUCED growth. There is a limit to the number of buildings and people that should be there - have we not perhaps come close to that limit??
- (4) other islands should NOT have to shoulder the burden that O'AHU has caused for itself by overgrowth in the past several years (eg. Waikiki, 'Ewa plateau, etc)
- (5) windfarms are unsightly, especially on small islands like Moloka'i and Lāna'i; they will provide an ugly memory for tourists, thereby potentially reducing tourism interest in what should be beautiful islands

sincerely, me ka mana'o 'oia'i'o
S. Kaliko Beamer Trapp, Hilo, Hawaii

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Wednesday, February 08, 2012 9:36 AM
To: WLOtestimony
Cc: teri.kalele.molokai@mac.com
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: Taryn Waros
Organization: Individual
E-mail: teri.kalele.molokai@mac.com
Submitted on: 2/8/2012

Comments:

Ok, enough now, please. As our elected leaders, I expect no less than visionary leadership from you folks. So please, take the time to do your own research and understand your individual kuleana to make the right decisions for the future of our island home and the generations to come. At this point you must understand that our choices in pursuing "alternative" or "green" or "renewable" energy MUST NOT BE at the expense of our natural resources; be it our land, sea, reefs and sanctuaries including the wildlife therein, our cultural history and current practices and our inherent identity, or entire individual islands and their people.

HOW CAN you seriously consider this bill NOW, without completely assessing the potential impacts and damages to our islands and communities? Where are the studies necessary to impartially measure environmental, economic and cultural impacts? Ask yourself, "Is this really the best way to achieve our goal of 70% less dependance on foreign fuel in our timeline, or might there be another, better way?" "Is it the most cost effective, least intrusive and most efficient way or is it really just a means to help some big corporations squeeze out every penny of the residents and taxpayers that we are paid to protect?" "What really is our intention here?"

Please be honest in your assessment and visionary in your answers. Please consider all of the potential collateral damage that this proposed bill represents.

Ask yourself this, "If this really is such a good idea, why are my family and neighbors being asked to carry the risk of financially supporting this endeavor?" "Would it not be wiser to support them in finding means to produce their own energy, manage their consumption and take care of their environment?" If after all of this reflection and consideration, you truly believe that this inter-island cable is ultimately necessary for the future benefit of our islands and citizens, well then, make the only right decision in making the profiteers take on the financial risk of this fiasco, not the people sacrificing.

Believe me, if you stick up for your constituents, they will be grateful.

har2-Samantha

From: mailinglist@capitol.hawaii.gov
Sent: Wednesday, February 08, 2012 3:02 PM
To: WLOtestimony
Cc: beverlyzigmond@juno.com
Subject: Testimony for HB2523 on 2/10/2012 9:00:00 AM

Testimony for WLO/EEP 2/10/2012 9:00:00 AM HB2523

Conference room: 325
Testifier position: Oppose
Testifier will be present: No
Submitted by: beverly zigmond
Organization: Individual
E-mail: beverlyzigmond@juno.com
Submitted on: 2/8/2012

Comments:

I OPPOSE this bill and urge you to do the same. How can you possibly pass a bill for a project of this magnitude WITHOUT knowing the detrimental impacts that it would have on our natural resources? What happened to the EIS? Are you really willing to destroy our natural and cultural resources so readily? This bill is obviously intended to speed along the proposed industrial wind power plant on Lana`i and possibly Moloka`i. A project that will FOREVER destroy an already endangered way of life, just to make the developer a lot of money. We can reduce our dependence on fossil fuels in many other ways, including conservation. There are other technologies that are more efficient and cost effective and LESS damaging to our resources. Don't push this one through without a moment of silence with your conscience. Thank you. Beverly Zigmond, Lana`i City