

SCR180/SR136

Measure Title: REQUESTING THE PRESIDENT OF THE SENATE TO ESTABLISH A WORKING GROUP TO DISCUSS STRATEGIES FOR THE DEVELOPMENT AND EXPANSION OF GEOTHERMAL ENERGY AND TECHNOLOGY.

Report Title: Geothermal Energy and Technology Working Group

Description:

Companion:

Package: None

Current Referral: WTL/ENE/PSM, WAM

Introducer(s): SOLOMON, Dela Cruz

<u>Sort by</u> <u>Date</u>		Status Text
3/13/2013	S	Offered.
3/19/2013	S	Referred to WTL/ENE/PSM, WAM.
3/25/2013	S	The committee(s) on WTL/ENE/PSM has scheduled a public hearing on 03-28-13 2:30PM in conference room 225.

NEIL ABERCROMBIE
GOVERNOR OF HAWAII



**STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES**

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

**Testimony of
WILLIAM J. AILA, JR.
Chairperson**

**Before the Senate Committees on
WATER AND LAND
and
ENERGY AND ENVIRONMENT
and
PUBLIC SAFETY, INTERGOVERNMENTAL AND MILITARY AFFAIRS**

**Thursday, March 28, 2013
2:30 P.M.
State Capitol, Conference Room 225**

**In consideration of
SENATE CONCURRENT RESOLUTION 180/SENATE RESOLUTION 136
REQUESTING THE PRESIDENT OF THE SENATE TO ESTABLISH A WORKING
GROUP TO DISCUSS STRATEGIES FOR THE DEVELOPMENT AND EXPANSION
OF GEOTHERMAL ENERGY AND TECHNOLOGY**

Senate Concurrent Resolution 180/Senate Resolution 136 request the Senate President to establish a working group to discuss strategies for the development and expansion of geothermal energy and technology development on the island of Hawaii and the development of a geothermal energy and technology park. **The Department of Land and Natural Resources (Department) appreciates the intent of these resolutions to work toward reducing the State's dependence on imported oil and offers the following comments.**

The Department's role relating to geothermal resources is regulatory. The proper management of the resource will ensure the protection of the environment, public health and safety, and the long term sustainability for future generations.

Representation from the Department of Business, Economic Development and Tourism's Energy Office and the University of Hawaii Center for the Study of Active Volcanoes should be included as part of the working group. Part of the Energy Office's mission is to act as a catalyst for renewable energy resources and the University is gathering exploration data that could assist in this effort.

WILLIAM J. AILA, JR.
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

ESTHER KIA'AINA
FIRST DEPUTY

WILLIAM M. TAM
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

The Department defers to the High Technology Development Corporation (HTDC) regarding the appropriateness of its participation in the proposed working group, as the purpose of the HTDC is to facilitate the growth and development of the commercial high technology industries such as electronics, biotechnology, software, computers, telecommunications, and other computer-related technologies.

The potential for geothermal resource development exists beyond the Island of Hawaii. As such, the inclusion of working group members representing other counties should also be considered.

Thank you for the opportunity to comment on these measures.



Indigenous Consultants, LLC

Mililani B. Trask, Principal

P.O.Box 6377 ❖ Hilo, HI 96720

Mililani.trask@gmail.com



March 26, 2013

SCR 180 – SCR 131

Hearing Date: Thursday, March 28, 2013

Time: 2:30 pm

Room: CR 225

Committee: Energy



IDG | INNOVATIONS
DEVELOPMENT
GROUP

Testimony in Support with Amendments

Aloha Legislators,

The Indigenous Consultants (IC) is a Hawaii based, indigenous LLC owned and operated by Native Hawaiians. It was created to assist indigenous peoples in developing their renewable energy resources in ways that are: Culturally appropriate, environmentally green and sustainable, socially responsible and economically equitable and affordable. For several years the IC has worked with Innovations Development Group in New Zealand and indigenous Maori developing geothermal resources, which are trust assets of Maori Land Trusts. In addition, the IC has acted as a consultant to other indigenous people in Hawaii and Asia who are addressing development of their trust renewable energy resources in ways that; directly benefit their people, bring in revenues, create small business opportunities and ensure fair & affordable rates to consumers, including themselves and their communities.

The Innovations Development Group (IDG) is a Hawaii based renewable energy Development Corporation owned by Native Hawaiians. It was created to facilitate the development of renewable energy resources of native people, and in summer 2011 presented its development model to legislators of the Energy & Land Committees.

Innovations Development Group & Indigenous Consultants strongly support this measure, but recommend changes to strengthen and clarify the bill and to avoid duplication.

RECOMMENDED AMENDMENTS:

1. AMENDMENTS TO THE PREAMBULAR SECTIONS (Whereas Clauses).
 - A. IDG/IC recommend that a new preamble section be added to the Bill that acknowledges that Geothermal Resources are minerals under Hawaii law and assets of the Public Trust, and that the State has a Trust obligation to ensure

that these resources are developed in a manner that brings a primary benefit, to the State & its beneficiaries (the Public & Native Hawaiians).

2. AMENDMENTS TO THE COMPOSITION OF THE & MEMBER WORKING GROUP

Problem: The Bill currently gives the County Mayor the power to appoint 4 out of 7 members to the Working Group. They are 1) a representative of the Mayors office, 2) a native Hawaiian cultural expert, 3) a "private sector business member" and 4) a "Community member of the County". This politicizes the membership of the Working Group & favors the office of the Mayor rather than providing a balance & badly needed expertise to the Working Group.

RECOMMENDED CHANGES:

1. Section (5) should be deleted and instead the Bill should provide for inclusion of the Hawaii Island representative to the Aha Moku Council. The Aha Moku, under law, already is advising the DLNR. In addition, the Aha Moku members are cultural experts WITH KNOWLEDGE RELATING TO THE LAND & MARINE AREAS OF OUR STATE. These are the expertise we need on this Working Group. We should utilize the mechanisms & processes we have rather than duplicating cultural review with new people & processes.
2. Section (6) should be deleted and instead the Bill should provide for a representative of the Hawaii Island Labor Alliance, appointed by the Alliance. This is needed to ensure that there is some continuity between the first & second Working Groups. Labor was on the first Working Group & labor's input is needed to ensure that the development problems that occurred in the past are not repeated. 25 Years ago, promises were made by "Business" to provide jobs to the community, the promises were not fulfilled. If safe jobs for our islands laborers are going to be considered & addresses, Hawaii Island Labor groups need to be participating to ensure this priority is considered & addressed.
3. Section (7) should be deleted and instead the Bill should provide for a representative & scientist from the he UH Center for the Study of Active Volcanoes. Everyone on the Working Group comes from some segment of the Hawaii Island "Community". What is missing is the science component & representative. GEOTHERMAL DEVELOPMENT MUST BE SCIENCE BASED. We are very fortunate to have in Hawaii The Center for Active Volcanoes. For several years, the scientists with the Center have been testing the geo resources on Hawaii Island, they are independent of business & they have significant data that should be available to this Working Group. They have the expertise to advise the Working Group on SAFE & APPROPRIATE TECHNOLOGY and PROCEDURES for geothermal development on Hawaii Island. We need science on this Working Group.

PLEASE MAKE THESE CRITICAL CHANGES IN THE MEASURE. THE INNOVATIONS DEVELOPMENT GROUP AND INDIGENOUS CONSULTANTS SUPPORT THIS MEASURE & LOOK FORWARD TO WORKING WITH THEM TO MOVE HAWAII ISLAND FORWARD ON ENERGY SELF-SUFFICIENCY.

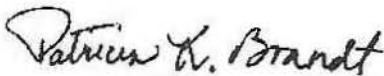
Please pass this badly needed measure with amendments.

Sincerely,



Mililani B. Trask – Indigenous Consultants LLC

Sincerely,



Patricia K. Brandt
CEO IDG Hawaii

The Pacific Resource
PARTNERSHIP



The Pacific Resource Partnership

Senate Committee on Water and Land
Senator Malama Solomon, Chair
Senator Maile S.L. Shimabukuro, Vice Chair

Senate Committee on Energy and Environment
Senator Mike Gabbard, Chair
Senator Russell E. Ruderman, Vice Chair

Senate Committee on Public Safety, Intergovernmental and Military Affairs
Senator Will Espero, Chair
Senator Rosalyn H. Baker, Vice Chair

SCR 180/SR 136 - Requesting the President of the Senate to Establish a Working Group to Discuss Strategies for the Development and Expansion of Geothermal Energy and Technology

Thursday, March 28, 2013
2:30 pm
Conference Room 225

Aloha Chairs Solomon, Gabbard and Espero, and Vice Chairs Shimabukuro, Ruderman and Baker, and members of the Committees:

The Pacific Resource Partnership (PRP) is a labor-management consortium representing over 240 signatory contractors and the Hawaii Regional Council of Carpenters.

PRP supports and requests an amendment to SCR 180/SR 136 Requesting the President of the Senate to Establish a Working Group to Discuss Strategies for the Development and Expansion of Geothermal Energy and Technology.

PRP believes that the State must explore and develop multiple sources of abundant renewable energy to keep Hawai'i on the path to achieving its clean energy goals by 2030. We believe that geothermal energy could have a major role to play in our State's quest for energy independence.

We request that the Committees consider amending these measures to include a representative from the labor community, specifically a representative of the Hawaii Construction Alliance (Alliance) or a member of one of the four basic crafts that make up this Alliance (Carpenters, Laborers, Operating

1100 Alakea Street • Alakea Corporate Tower, 4th Floor • Honolulu, HI 96813
Tel (808) 528-5557 • Fax (808) 528-0421 • www.prp-hawaii.com

Engineers, Masons). Insight and input from the labor sector would bring a valuable perspective to the Working Group, as energy costs can greatly affect the affordability of construction and building in Hawaii. In addition, a Labor representative chaired the first Working Group and should be involved so there is continuity between the two efforts.

Thank you for the opportunity to present our views on these Resolutions.

Hawai'i Construction Alliance

P.O. Box 179441
Honolulu, HI 96817
(808) 348-8885

March 27, 2013

Senate Committee on Water and Land
Senator Malama Solomon, Chair
Senator Maile S.L. Shimabukuro, Vice Chair

Senate Committee on Energy and Environment
Senator Mike Gabbard, Chair
Senator Russell E. Ruderman, Vice Chair

Senate Committee on Public Safety, Intergovernmental and Military Affairs
Senator Will Espero, Chair
Senator Rosalyn H. Baker, Vice Chair

Testimony in **support** of SCR180/SR136, requesting the President of the Senate to establish a working group to discuss strategies for the development and expansion of geothermal energy and technology.

Dear Chairs Solomon, Gabbard and Espero, Vice Chairs Shimabukuro, Ruderman and Baker, and members of the Committees:

The Hawaii Construction Alliance supports SCR180/SR136, and requests an amendment to the composition of the proposed working group.

The Hawai'i Construction Alliance is comprised of the Hawai'i Regional Council of Carpenters; the Hawai'i Masons Union, Local 1 and Local 630; the Laborers' International Union of North America, Local 368; and the Operating Engineers, Local 3. Together, the four member unions of the Hawai'i Construction Alliance represent 15,000 working men and women in the four basic crafts of Hawai'i's construction industry.

We support the responsible development and expansion of geothermal energy in the State of Hawai'i. We believe that the creation of a working group to examine, discuss, and propose strategies for the development of geothermal energy and technology is an important step toward achieving a clean energy future for Hawai'i.

We would also request that the committees consider amending SCR180/SR136 to include a member from the labor community – particularly from the construction sector – as part of the working group. Construction is an energy-intensive activity, and the industry as a whole is sensitive to the high cost of energy. We believe the inclusion of a member from this important sector of the economy would add valuable insight to the working group.

Mahalo for the opportunity to provide this testimony in support of SCR180/SR136.

Aloha,



Tyler Dos Santos-Tam
Executive Director
Hawai'i Construction Alliance
execdir@hawaiiiconstructionalliance.org

WTL/ENE/PSM 225 Mar 28, 2013 2:30 PM

RE: SCR180/SR 136 REQUESTING THE PRESIDENT OF THE SENATE TO ESTABLISH A WORKING GROUP TO DISCUSS STRATEGIES FOR THE DEVELOPMENT AND EXPANSION OF GEOTHERMAL ENERGY AND TECHNOLOGY.

Position. Opposed

Nelson Ho, Senate President Appointed Member to the Legislature's Geothermal Energy Working Group mandated by Senate Concurrent Resolution 99-2010.

Representing: Sierra Club.

Aloha Legislative Committee Members. My name is Nelson Ho. I have been directly involved with Hawaii's stumbling attempts to develop alternative energy resources including geothermal energy since 1982.

I am the Sierra Club member appointed by the Senate President in 2010 to the Legislature's Geothermal Energy Working Group mandated by Senate Concurrent Resolution 99-2010, authored by Senator Russell Kokubun.

It has been often repeated that one definition of insanity is to keep doing the same thing, repeatedly, and expecting different results. Passage of SCR 180/SR 136 will produce NO DIFFERENT RESULTS from the passage of SCR 99-2010. It will further have the unintended consequence of focusing and hardening community opposition to any further geothermal development.

The proposed 2013 Working Group will produce no better strategies for the development and expansion of geothermal energy and technology in Hawaii than did my Geothermal Working Group, which submitted its Final Report to the 2012 session of the Legislature. Did any of you read it and understand what was stated?

What has happened since the report was submitted to the Legislature?

- Residents continue to want to be removed from the vicinity of Puna

Geothermal Venture's 30 MW facility. So many want out that the County is running out of funds to relocate additional residents.

- PGV was recently kicked off line by an unknown fault in the HELCO grid, causing alarm in hundreds of residents and exposing the fact that the Police, Fire, Civil Defense and state agencies are still not able to accurately assess the H₂S exposure and reassure the impacted people.
- The affected residents, Hawaii County Council, and Mayor Keno'i's administration asked for changes in geothermal regulation that FAILED to gain passage this 2013 session.

The answers to the dilemma of how to proceed with more geothermal energy is buried in the rubble of past state energy regulatory policies and governmental agency actions. The answer is in the submitted geothermal testimonies of Mayor Harry Kim and the affected residents this session.

The answer is to listen to and work with the impacted communities, not treat them as obstacles to be feared, isolated from decision making, and marginalized.

For further background on me, in 1987, Governor John Waihee appointed me to his State Energy Advisory Committee. I also served on the Hawai'i Electric Light Company's (HELCO) Integrated Resource Planning Advisory Committee in 1994 and 1995. I am also the Chair of the Executive Committee of the Hawaii Island Group of the Sierra Club.

HARRY KIM
471 HO'OKINA PLACE
HILO, HAWAII 96720

March 27, 2013

Senator Malama Solomon, Chair and Members of the Committee on Water and Land
Senator Mike Gabbard, Chair, and Members of the Committee on Energy and Environment
Senator Will Espero, Chair and Members of the Committee on Public Safety, Intergovernmental
and Military Affairs

The Senate
State Capitol
Honolulu, Hawaii

Regarding: SCR 180 / SR 136

Position: Opposed

Dear Chairs Solomon, Gabbard, Espero, and Committee Members:

This testimony is submitted in strong opposition to Senate Concurrent Resolution 180 and Senate Resolution 136, which propose the establishment of a working group to “discuss strategies for the development and expansion of geothermal energy and technology.”

There are several reasons for concern.

First, it is questioned why only the island of Hawaii is identified as involved in this proposed working group. Since geothermal resources are also being investigated on Oahu and Maui, it would seem reasonable and prudent to include other islands.

Second, statements made in the resolution.

“Whereas, geothermal energy in Hawaii has proven to be a reliable, inexhaustible energy source that is nearly emission free.”

- **Reliable:** The June 28, 2012 Volcano Watch column written by staff of the Hawaiian Volcano Observatory (HVO, part of the USGS) discusses the risk to geothermal operations posed by volcanic eruptions. It assumes that geothermal development is most likely to occur on Kilauea, where HGP-A pilot project and PGV's current plant are located. In a 1994 USGS publication, HVO scientists estimated that the possibility of an eruption in the areas of Kilauea's geothermal resource or the likely cable pathway that could transmit electricity to Honolulu as between 60 and 90 percent within any 50-year period. “The effect of an eruption within a geothermal power development could be severe, and the site could be deeply buried by lava.” The power generated by geothermal would be lost for weeks, months, or even years. Eruptions in lower Puna in 1840, 1955, and 1960 continued for weeks to months. The 1983 upper rift eruption which is still

continuing, buried Kalapana along with thousands of acres of land in the lower Puna area. Power generation and transmission would not be able to resume until after the eruption ends, and the facilities can be reestablished. This is even assuming enough lead time before any eruption for power generation equipment to be moved off site and "saved for future use." Given these facts, past reliability of geothermal electricity generation should not be assumed to guarantee future reliability. This is especially so if large power plants were developed and energy shipped off island, which could lead to severe statewide impact as well as disruption to Hawaii Island's power production in the case of a volcanic eruption. *And this does not address the great hazard and risk of earthquakes, as it is known this is one of the most seismically active areas on the island.*

- **Inexhaustible energy source:** While Kilauea's resource is large, it is not inexhaustible. It is estimated by HVO that "...the potential of the Kilauea resource, excluding areas within national parks and state reserves, could be between 250 and 600 MW." That is for the entire available area of Kilauea. While large, it is not unlimited in size or inexhaustible. It has also been stated that the heat source is not sustainable.
- **Nearly emission-free:** This is such a disputable statement, and it is not understood what is meant by it. Records kept by the Department of Health and PGV will indicate dozens of emissions incidents, many of which caused great discomfort to nearby residents. The most recent of these incidents occurred this month, and Hawaii County Civil Defense reports H2S levels of 1 to 3 parts per million were recorded in residential areas.

"Whereas, the State needs a sound, comprehensive strategy to ensure that geothermal energy is developed in an economically feasible manner that still protects public health, the environment, and cultural rights."

The makeup of the group should ensure that it is able to address this stated goal of protecting "public health, the environment, and cultural rights." The resolutions do not contain individuals who will be able to address this. For the proposed working group, membership should include:

- Residents of communities most affected by proposed development, and members should be selected by the communities.
- Representatives of emergency response agencies such as Civil Defense, Police, Fire Department, and the Department of Health.
- Expertise on public health related geothermal development.
- Experts on the environmental impact of geothermal activities; environment in its broadest sense, including air, water, and subsurface impact.

For these reasons, I ask that SCR 180 and SR 136 be deferred.

Aloha,

Harry Kim
933-9208

Piikea Tomczyk

From: mailinglist@capitol.hawaii.gov
Sent: Wednesday, March 27, 2013 12:01 PM
To: WTLTestimony
Cc: henry.lifeoftheland@gmail.com
Subject: *Submitted testimony for SCR180 on Mar 28, 2013 14:30PM*

SCR180

Submitted on: 3/27/2013

Testimony for WTL/ENE/PSM on Mar 28, 2013 14:30PM in Conference Room 225

Submitted By	Organization	Testifier Position	Present at Hearing
Henry Curtis	Life of the Land	Oppose	Yes

Comments:

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Piikea Tomczyk

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Cc: rtama@yahoo.com
Subject: Submitted testimony for SCR180 on Mar 28, 2013 14:30PM

SCR180

Submitted on: 3/27/2013

Testimony for WTL/ENE/PSM on Mar 28, 2013 14:30PM in Conference Room 225

Submitted By	Organization	Testifier Position	Present at Hearing
Nolan Moriwaki	Individual	Support	No

Comments: The Masons Union supports the intent and propose of this bill providing that the reso be amended to include a labor representative (i.e. one from the Hawaii Construction Alliance). The Masons Union Local 1 & 630 represents 1800 members from the following construction trades Bricklayers, Stone Masons, Ceramic Tile setters, Marble setters, Pointer Caulker, Cement Masons and Plasterers. Thank You for the opportunity to submit a testimony on this reso

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Cc: 1mu630@gmail.com
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SCR180

Submitted on: 3/27/2013

Testimony for WTL/ENE/PSM on Mar 28, 2013 14:30PM in Conference Room 225

Submitted By	Organization	Testifier Position	Present at Hearing
Ricky Tamashiro	Hawaii Masons' Union Local 1 & 630	Support	No

Comments:

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Piikea Tomczyk

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To: WTLTestimony
Cc: alohalways@gmail.com
Subject: *Submitted testimony for SCR180 on Mar 28, 2013 14:30PM*

SCR180

Submitted on: 3/26/2013

Testimony for WTL/ENE/PSM on Mar 28, 2013 14:30PM in Conference Room 225

Submitted By	Organization	Testifier Position	Present at Hearing
Tanja Miller	Individual	Support	No

Comments:

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Cc: katarina.culina@yahoo.com
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SCR180

Submitted on: 3/27/2013

Testimony for WTL/ENE/PSM on Mar 28, 2013 14:30PM in Conference Room 225

Submitted By	Organization	Testifier Position	Present at Hearing
Katarina Culina	Individual	Oppose	No

Comments:

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Cc: barb@punapono.com
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SCR180

Submitted on: 3/27/2013

Testimony for WTL/ENE/PSM on Mar 28, 2013 14:30PM in Conference Room 225

Submitted By	Organization	Testifier Position	Present at Hearing
Barb Cuttance	Individual	Oppose	No

Comments: I strongly oppose this resolution, it is full of untruths. Why not put this same energy into making sure solar power is cheaply available to all and empower people to get off the grid. If everyone in Hawaii used solar power to heat their hot water that alone would mean a 30% saving in imported oil...everyone off grid would mean 100% saving for Hawaii. Geothermal is not the answer! Empower people not corporations! For those of us living with a geothermal power plant we know that it is not clean and green, sustainable as the PR for this current industry promotes itself to be.

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Piikea Tomczyk

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Cc: davidsher@juno.com
Subject: *Submitted testimony for SCR180 on Mar 28, 2013 14:30PM*

SCR180

Submitted on: 3/26/2013

Testimony for WTL/ENE/PSM on Mar 28, 2013 14:30PM in Conference Room 225

Submitted By	Organization	Testifier Position	Present at Hearing
Sherry Pollack	Individual	Oppose	No

Comments:

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Piikea Tomczyk

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Cc: christidemuth@yahoo.com
Subject: *Submitted testimony for SCR180 on Mar 28, 2013 14:30PM*

SCR180

Submitted on: 3/26/2013

Testimony for WTL/ENE/PSM on Mar 28, 2013 14:30PM in Conference Room 225

Submitted By	Organization	Testifier Position	Present at Hearing
Christi Demuth	Individual	Oppose	No

Comments:

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Piikea Tomczyk

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Cc: laurenelaide721@yahoo.com
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SCR180

Submitted on: 3/26/2013

Testimony for WTL/ENE/PSM on Mar 28, 2013 14:30PM in Conference Room 225

Submitted By	Organization	Testifier Position	Present at Hearing
Lauren Ampolos	Individual	Oppose	No

Comments:

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Piikea Tomczyk

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Cc: shannonkona@gmail.com
Subject: *Submitted testimony for SCR180 on Mar 28, 2013 14:30PM*

SCR180

Submitted on: 3/26/2013

Testimony for WTL/ENE/PSM on Mar 28, 2013 14:30PM in Conference Room 225

Submitted By	Organization	Testifier Position	Present at Hearing
Shannon Rudolph	Individual	Oppose	No

Comments:

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Piikea Tomczyk

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To: WTLTestimony
Cc: missivonkouma1@live.fr
Subject: *Submitted testimony for SCR180 on Mar 28, 2013 14:30PM*

SCR180

Submitted on: 3/25/2013

Testimony for WTL/ENE/PSM on Mar 28, 2013 14:30PM in Conference Room 225

Submitted By	Organization	Testifier Position	Present at Hearing
missy kouma	Individual	Oppose	No

Comments:

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Piikea Tomczyk

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Sent: Monday, March 25, 2013 10:38 PM
To: WTLTestimony
Cc: michaelhawthorne1@me.com
Subject: *Submitted testimony for SCR180 on Mar 28, 2013 14:30PM*

SCR180

Submitted on: 3/25/2013

Testimony for WTL/ENE/PSM on Mar 28, 2013 14:30PM in Conference Room 225

Submitted By	Organization	Testifier Position	Present at Hearing
michael hawthorne	Individual	Oppose	No

Comments:

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Piikea Tomczyk

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To: WTLTestimony
Cc: Natewolford4@gmail.com
Subject: *Submitted testimony for SCR180 on Mar 28, 2013 14:30PM*

SCR180

Submitted on: 3/25/2013

Testimony for WTL/ENE/PSM on Mar 28, 2013 14:30PM in Conference Room 225

Submitted By	Organization	Testifier Position	Present at Hearing
Nate Wolford	Individual	Oppose	No

Comments:

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Piikea Tomczyk

From: mailinglist@capitol.hawaii.gov
Sent: Monday, March 25, 2013 10:37 PM
To: WTLTestimony
Cc: ngattn0407@sbcglobal.net
Subject: *Submitted testimony for SCR180 on Mar 28, 2013 14:30PM*

SCR180

Submitted on: 3/25/2013

Testimony for WTL/ENE/PSM on Mar 28, 2013 14:30PM in Conference Room 225

Submitted By	Organization	Testifier Position	Present at Hearing
Nga Nitaman	Individual	Oppose	No

Comments:

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Piikea Tomczyk

From: mailinglist@capitol.hawaii.gov
Sent: Monday, March 25, 2013 10:36 PM
To: WTLTestimony
Cc: billliverman@aol.com
Subject: *Submitted testimony for SCR180 on Mar 28, 2013 14:30PM*

SCR180

Submitted on: 3/25/2013

Testimony for WTL/ENE/PSM on Mar 28, 2013 14:30PM in Conference Room 225

Submitted By	Organization	Testifier Position	Present at Hearing
bill liverman	Individual	Oppose	No

Comments:

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Piikea Tomczyk

From: mailinglist@capitol.hawaii.gov
Sent: Monday, March 25, 2013 10:35 PM
To: WTLTestimony
Cc: best_budz89@yahoo.com
Subject: *Submitted testimony for SCR180 on Mar 28, 2013 14:30PM*

SCR180

Submitted on: 3/25/2013

Testimony for WTL/ENE/PSM on Mar 28, 2013 14:30PM in Conference Room 225

Submitted By	Organization	Testifier Position	Present at Hearing
Buddy Smith	Individual	Oppose	No

Comments:

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Piikea Tomczyk

From: mailinglist@capitol.hawaii.gov
Sent: Monday, March 25, 2013 10:35 PM
To: WTLTestimony
Cc: briggsmaui@yahoo.com
Subject: *Submitted testimony for SCR180 on Mar 28, 2013 14:30PM*

SCR180

Submitted on: 3/25/2013

Testimony for WTL/ENE/PSM on Mar 28, 2013 14:30PM in Conference Room 225

Submitted By	Organization	Testifier Position	Present at Hearing
briggs kauua	Individual	Oppose	No

Comments:

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Piikea Tomczyk

From: mailinglist@capitol.hawaii.gov
Sent: Monday, March 25, 2013 10:34 PM
To: WTLTestimony
Cc: bichphuong14225@yahoo.com
Subject: *Submitted testimony for SCR180 on Mar 28, 2013 14:30PM*

SCR180

Submitted on: 3/25/2013

Testimony for WTL/ENE/PSM on Mar 28, 2013 14:30PM in Conference Room 225

Submitted By	Organization	Testifier Position	Present at Hearing
bich phuong	Individual	Oppose	No

Comments:

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Piikea Tomczyk

From: mailinglist@capitol.hawaii.gov
Sent: Monday, March 25, 2013 10:34 PM
To: WTLTestimony
Cc: ti_health@hotmail.com
Subject: *Submitted testimony for SCR180 on Mar 28, 2013 14:30PM*

SCR180

Submitted on: 3/25/2013

Testimony for WTL/ENE/PSM on Mar 28, 2013 14:30PM in Conference Room 225

Submitted By	Organization	Testifier Position	Present at Hearing
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Tia Kent	Individual	Oppose	No
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Comments:

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Piikea Tomczyk

From: mailinglist@capitol.hawaii.gov
Sent: Monday, March 25, 2013 10:34 PM
To: WTLTestimony
Cc: taterocks@socket.net
Subject: *Submitted testimony for SCR180 on Mar 28, 2013 14:30PM*

SCR180

Submitted on: 3/25/2013

Testimony for WTL/ENE/PSM on Mar 28, 2013 14:30PM in Conference Room 225

Submitted By	Organization	Testifier Position	Present at Hearing
Tatiana Rocks	Individual	Oppose	No

Comments:

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Piikea Tomczyk

From: mailinglist@capitol.hawaii.gov
Sent: Monday, March 25, 2013 10:34 PM
To: WTLTestimony
Cc: tjsimms2000@hotmail.com
Subject: *Submitted testimony for SCR180 on Mar 28, 2013 14:30PM*

SCR180

Submitted on: 3/25/2013

Testimony for WTL/ENE/PSM on Mar 28, 2013 14:30PM in Conference Room 225

Submitted By	Organization	Testifier Position	Present at Hearing
<input type="text" value="tj simms"/>	<input type="text" value="Individual"/>	<input type="text" value="Oppose"/>	<input type="text" value="No"/>

Comments:

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Piikea Tomczyk

From: mailinglist@capitol.hawaii.gov
Sent: Monday, March 25, 2013 10:04 PM
To: WTLTestimony
Cc: uhanepono@yahoo.com
Subject: *Submitted testimony for SCR180 on Mar 28, 2013 14:30PM*

SCR180

Submitted on: 3/25/2013

Testimony for WTL/ENE/PSM on Mar 28, 2013 14:30PM in Conference Room 225

Submitted By	Organization	Testifier Position	Present at Hearing
caroline avery	Individual	Oppose	No

Comments:

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Piikea Tomczyk

From: mailinglist@capitol.hawaii.gov
Sent: Monday, March 25, 2013 10:03 PM
To: WTLTestimony
Cc: foodsovereignty@gmail.com
Subject: *Submitted testimony for SCR180 on Mar 28, 2013 14:30PM*

SCR180

Submitted on: 3/25/2013

Testimony for WTL/ENE/PSM on Mar 28, 2013 14:30PM in Conference Room 225

Submitted By	Organization	Testifier Position	Present at Hearing
Mitsuko Hayakawa	Individual	Oppose	No

Comments:

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Piikea Tomczyk

From: mailinglist@capitol.hawaii.gov
Sent: Monday, March 25, 2013 9:23 PM
To: WTLTestimony
Cc: grumpyscosmos@gmail.com
Subject: Submitted testimony for SCR180 on Mar 28, 2013 14:30PM

SCR180

Submitted on: 3/25/2013

Testimony for WTL/ENE/PSM on Mar 28, 2013 14:30PM in Conference Room 225

Submitted By	Organization	Testifier Position	Present at Hearing
steve scott	Individual	Oppose	No

Comments: Please don't allow this hideous pollution in our beautiful state

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Piikea Tomczyk

From: mailinglist@capitol.hawaii.gov
Sent: Monday, March 25, 2013 9:15 PM
To: WTLTestimony
Cc: Kumukahi77@gmail.com
Subject: *Submitted testimony for SCR180 on Mar 28, 2013 14:30PM*

SCR180

Submitted on: 3/25/2013

Testimony for WTL/ENE/PSM on Mar 28, 2013 14:30PM in Conference Room 225

Submitted By	Organization	Testifier Position	Present at Hearing
Dea Rackley	Individual	Oppose	No

Comments:

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Piikea Tomczyk

From: mailinglist@capitol.hawaii.gov
Sent: Monday, March 25, 2013 8:43 PM
To: WTLTestimony
Cc: ponosize@hotmail.com
Subject: *Submitted testimony for SCR180 on Mar 28, 2013 14:30PM*

SCR180

Submitted on: 3/25/2013

Testimony for WTL/ENE/PSM on Mar 28, 2013 14:30PM in Conference Room 225

Submitted By	Organization	Testifier Position	Present at Hearing
Pono Kealoha	Individual	Oppose	No

Comments:

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Piikea Tomczyk

From: mailinglist@capitol.hawaii.gov
Sent: Monday, March 25, 2013 8:40 PM
To: WTLTestimony
Cc: dcwww@yahoo.com
Subject: Submitted testimony for SCR180 on Mar 28, 2013 14:30PM

SCR180

Submitted on: 3/25/2013

Testimony for WTL/ENE/PSM on Mar 28, 2013 14:30PM in Conference Room 225

Submitted By	Organization	Testifier Position	Present at Hearing
Donna Worden	Individual	Oppose	No

Comments: Where is the committee to explore feasibility of expanding solar and wind generation of electricity? Why do more of what is making life miserable for people in Puna, near the existing geothermal drilling? We have SO MUCH sun and wind here. (Well, we would have more sun if there weren't so many chemicals in the air. Why not have a committee to see about clearing the air?)

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Piikea Tomczyk

From: mailinglist@capitol.hawaii.gov
Sent: Monday, March 25, 2013 8:04 PM
To: WTLTestimony
Cc: jemray@hawaii.rr.com
Subject: Submitted testimony for SCR180 on Mar 28, 2013 14:30PM

SCR180

Submitted on: 3/25/2013

Testimony for WTL/ENE/PSM on Mar 28, 2013 14:30PM in Conference Room 225

Submitted By	Organization	Testifier Position	Present at Hearing
Janet Murray	Individual	Oppose	No

Comments: Oppose SCR180

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Piikea Tomczyk

From: mailinglist@capitol.hawaii.gov
Sent: Monday, March 25, 2013 7:49 PM
To: WTLTestimony
Cc: sherrianwitt@aol.com
Subject: *Submitted testimony for SCR180 on Mar 28, 2013 14:30PM*

SCR180

Submitted on: 3/25/2013

Testimony for WTL/ENE/PSM on Mar 28, 2013 14:30PM in Conference Room 225

Submitted By	Organization	Testifier Position	Present at Hearing
sherrian witt	Individual	Oppose	No

Comments:

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Piikea Tomczyk

From: mailinglist@capitol.hawaii.gov
Sent: Monday, March 25, 2013 1:52 PM
To: WTLTestimony
Cc: bill@puna.us
Subject: *Submitted testimony for SCR180 on Mar 28, 2013 14:30PM*

SCR180

Submitted on: 3/25/2013

Testimony for WTL/ENE/PSM on Mar 28, 2013 14:30PM in Conference Room 225

Submitted By	Organization	Testifier Position	Present at Hearing
Bill Smith	Individual	Oppose	No

Comments:

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