

DAVID Y. IGE
Governor

SHAN S. TSUTSUI
Lt. Governor



State of Hawaii
DEPARTMENT OF AGRICULTURE
1428 South King Street
Honolulu, Hawaii 96814-2512
Phone: (808) 973-9600 FAX: (808) 973-9613

SCOTT E. ENRIGHT
Chairperson, Board of Agriculture

PHYLLIS SHIMABUKURO-GEISER
Deputy to the Chairperson

**TESTIMONY OF SCOTT E. ENRIGHT
CHAIRPERSON, BOARD OF AGRICULTURE**

**BEFORE THE HOUSE COMMITTEES ON ENERGY & ENVIRONMENTAL
PROTECTION
AND WATER & LAND**

February 16, 2016
10:00 A.M.
CONFERENCE ROOM 325

**HOUSE BILL NO. 2077
RELATING TO HYDROELECTRIC POWER**

Chairpersons Lee and Yamane and Members of the Committees:

Thank you for the opportunity to testify on House Bill No. 2045 that allows a “small hydropower facility” as defined by the U. S. Department of Energy as a hydroelectric facility on all Agricultural District lands. The Department of Agriculture offers comments.

This bill removes from Section 205-4.5(a)(23) the requirement that small hydroelectric facilities on all Agricultural District lands are accessory to agricultural activities on agricultural lands and for agricultural use only. The bill does retain the requirement that “small hydropower facilities” not adversely impact or impede the use of agricultural land or the availability of ground or surface water for all uses. Because impoundment and diversion facilities may include the damming of rivers, we recommend that the Department of Land and Natural Resources and the U. S. Fish and Wildlife Service be consulted.



For your information, the U. S. Department of Energy states that a “small hydropower facility” has a generating capacity of 100 kilowatts to 30 megawatts. (<http://energy.gov/eere/water/types-hydropower-plants>). According to the Hawaii State Energy Office, the largest capacity hydroelectric facility in Hawaii is the Wailuku River (Hilo) Power Company’s 11 megawatt facility.

Thank you for the opportunity to submit our testimony.



**HOUSE COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION
HOUSE COMMITTEE ON WATER & LAND**

February 16, 2016, 10 A.M.

Room 325

(Testimony is 1 page long)

TESTIMONY IN SUPPORT OF HB 2077

Aloha Chair Lee, Chair Yamane, Vice Chair Lowen, Vice Chair Cullen, and Committee members,

Blue Planet Foundation supports HB 2077. This bill can help to clear the path for small hydroelectric power or pumped hydro energy storage facilities, with the dual benefit of supporting agriculture.

We note that bill amends H.R.S. § 205-2, which currently limits hydro power to “micro” facilities capped at 500 kilowatts. This specification is far too limiting for many applications that would provide dual support for agriculture and energy, particularly since hydro power is a non-consumptive use of water. We also note that all such projects will still need to conform with the State Water Code.

HB 2077 may be particularly important for some of the state’s aging dams and reservoirs. Many such facilities are in disrepair and thus no longer able to support agriculture. The possibility of converting these facilities to pumped hydro storage projects is a path to obtain the resources necessary to make these facilities safe and once again useful. This bill thus opens the door for a win-win solution.

In the interest of support local agriculture and local power, we respectfully request that you forward this bill.

Thank you for the opportunity to testify.



P.O. Box 253, Kunia, Hawai'i 96759
Phone: (808) 848-2074; Fax: (808) 848-1921
e-mail info@hfbf.org; www.hfbf.org

February 16, 2016

HEARING BEFORE THE
HOUSE COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION
HOUSE COMMITTEE ON WATER & LAND

TESTIMONY ON HB 2077
RELATING TO HYDROELECTRIC POWER

Room 325
10:00 AM

Aloha Chair Lee, Chair Yamane, Vice Chair Lowen, Vice Chair Cullen, and Members of the Committees:

I am Randy Cabral, President of the Hawaii Farm Bureau Federation (HFB). Organized since 1948, the HFBF is comprised of 1,900 farm family members statewide, and serves as Hawaii's voice of agriculture to protect, advocate and advance the social, economic and educational interests of our diverse agricultural community.

HFB supports the intent of HB 2077, which permits hydroelectric facilities on Agricultural District lands that are considered small hydropower facilities under federal law.

Renewable energy is important to the State's energy goals. Hydroelectric facilities can serve as a feasible alternative energy source to meet such goals. That being said, viable farming and ranching activities on agricultural lands must be maintained in order to retain agricultural lands for future generations. Lands capable of supporting viable agricultural activities should be protected and kept in agriculture. Hydroelectric facilities can provide the State with alternative energy options, as long as it is secondary to agricultural activities on agricultural lands.

Thank you for this opportunity to provide testimony on this measure.



Email: communications@ulupono.com

HOUSE COMMITTEES ON ENERGY & ENVIRONMENTAL PROTECTION AND WATER &
LAND

Tuesday, February 16, 2016 — 10:00 a.m. — Room 325

Ulupono Initiative Strongly Supports HB 2077, Relating to Hydroelectric Power

Dear Chair Lee, Vice Chair Lowen, Chair Yamane, Vice Chair Cullen, and Members of the Committees:

My name is Kyle Datta and I am General Partner of the Ulupono Initiative, a Hawai'i-based impact investment company that strives to improve the quality of life for the people of Hawai'i by working toward solutions that create more locally grown food; increase affordable, clean, renewable energy; and reduce waste. We believe that self-sufficiency is essential to our future prosperity, and will help shape a future where economic progress and mission-focused impact can work hand in hand.

Ulupono strongly supports HB 2077, which permits hydroelectric power facilities larger than 500kW on Agricultural District lands, because it aligns with our goal of increasing the production of clean, renewable energy in Hawai'i. Of particular interest to Ulupono is the ability to create run-of-river hydroelectric and pumped storage hydro projects. Energy storage projects are gaining more support as variable renewable energy is increasing. Yet, for all the battery technology developments, hydroelectric and pumped storage hydro are some of the most cost efficient and technologically proven energy storage systems in the world.

Through increasing the electric generating capacity cap, more projects can be built that benefits farmers and ranchers, the utility, and ratepayers. For farmers and ranchers, a hydroelectric power and pumped storage project can provide both a supplemental revenue source and more effective water capture and usage. For the utility, these projects can provide more firm, renewable generating capacity and greater grid effectiveness. For the ratepayer, these energy projects can lower the cost of energy use.

However, these hydroelectric projects can require larger economies of scale to make them economically viable. The current 500kW cap is too small to allow for hydroelectric infrastructure and pumped storage hydro to develop in a timely manner.

As Hawai'i's energy issues become more complex and challenging, we appreciate this

Investing in a Sustainable Hawai'i



committee's efforts to look at policies that support renewable energy production.

Thank you for this opportunity to testify.

Respectfully,

Kyle Datta
General Partner



Wai Maoli

HAWAII FRESH WATER INITIATIVE

827 Fort Street Mall | Honolulu, HI 96813 | (808) 537-6333
HawaiiCommunityFoundation.org

Fresh Water Council Members

William Aila

Stephen Anthony*

Michael Buck

Suzanne Case

Reginald Castanares

Meredith Ching

Derek Chow

Ka'eo Duarte

Sumner Erdman

Mark Fox

Thomas Giambelluca

Timothy Johns

Howard Killian

Patrick Kobayashi

Ernest Lau

Keith Okamoto

Jerry Ornellas

Monty Richards

Kapua Sproat

David Taylor

Dennis Teranishi

Barry Usagawa

*US Geological Survey
Liaison/Scientific Advisor to HCF

**Testimony of the
Hawai'i Fresh Water Initiative
on
H.B. 2077
Relating to Hydroelectric Power
House Committees on EEP/WAL
Tuesday, February 16, 2016
Conference Room 325**

The Hawaii Fresh Water Initiative strongly supports H.B. 2077, which permits small hydroelectric power generation as a permitted use on agricultural land.

The Hawaii Fresh Water Initiative was launched in 2013 to bring many diverse parties together to develop a forward-thinking and consensus-based strategy to increase water security for Hawaii. A blue ribbon panel of water stakeholders drawn from multiple perspectives came together to jointly and unanimously recommend key strategies and policies that will increase Hawaii's water security.

One of the key strategies to achieve a statewide water recharge goal of 30 mgd is to maintain reservoir storage capacity in the Islands.

H.B. 2077 would allow agricultural landowners to develop small hydroelectric power generation systems and pumped storage systems while developing revenue streams that can help maintain and upgrade agricultural water system infrastructure. The Council believes that upgraded infrastructure will also help conserve water lost through leaks.

For these reasons, we strongly support H.B. 2077 and urge its passage.

From: mailinglist@capitol.hawaii.gov
Sent: Monday, February 15, 2016 2:05 PM
To: EEPtestimony
Cc: rangien2010@yahoo.com
Subject: Submitted testimony for HB2077 on Feb 16, 2016 10:00AM

HB2077

Submitted on: 2/15/2016

Testimony for EEP/WAL on Feb 16, 2016 10:00AM in Conference Room 325

Submitted By	Organization	Testifier Position	Present at Hearing
Puanani Rogers	Ho`okipa Network - Kauai and Aha Moku Kauai	Oppose	No

Comments: I testify in strong opposition to this measure, HB2007. Please kill this bill!

Please note that testimony submitted less than 24 hours prior to the hearing, improperly identified, or directed to the incorrect office, may not be posted online or distributed to the committee prior to the convening of the public hearing.

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PŌ‘AI WAI OLA

LATE

West Kaua‘i Watershed Alliance

HOUSE COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION

Attn: Chair Chris Lee & Vice-Chair Nicole E. Lowen

HOUSE COMMITTEE ON WATER & LAND

Attn: Chair Ryan I. Yamane & Vice-Chair Ty J.K. Cullen

February 15, 2016

Re: TESTIMONY ON HOUSE BILL 2077, Relating to Hydroelectric Power

Aloha Chairs Lee and Yamane, Vice-Chairs Lowen and Cullen, and Members of the Committees:

Po‘ai Wai Ola opposes HB 2077 in its current form, as well as in its general approach to authorizing hydropower projects in Hawai‘i. Increasing the current water taking limits for ag hydropower projects from 500 kilowatts up to a possible 30 megawatts (the current limit under the US Department of Energy’s definition of “small hydropower facility”) would pose risks of serious and longterm impacts on the west Kaua‘i watersheds and the ecosystems and communities that they sustain.

We are a community that is greatly linked to the west Kaua‘i watersheds – most importantly for cultivating our taro and food. The waters of the Waimea River are the focal point of the historic Waimea River valley that is home and sustenance to many generations of our Hawaiian families and specific species of fish and wildlife that depend on a healthy run- of-the-river.

Po‘ai Wai Ola is currently involved in a legal challenge and petition to set instream flow standards at levels that can ensure the health of the Waimea River. The case, which focuses on the historic water hoarding by big ag interests in our region, is being heard by our state’s Commission on Water Resource Management. The investigation and research results from this case could inform a more careful approach for policymakers truly committed to the goals of sustainable agriculture as well as ahupua‘a, water rights and the public trust doctrine.

Today, the Waimea River is so choked with silt that it often no longer reaches the ocean; contractors must open the sandbars at the river mouth with excavators. Pools of algae stagnate in the sun. ‘O‘opu, a native freshwater fish once plentiful in the river, are now scarce. Before authorizing hydropower projects that could worsen these conditions, solid research and first hand testimonies on the health of the Waimea River are needed.

We urge your prudence and careful consideration on this important issue. Mahalo for your attention.

Sincerely,

/s/

John A‘ana

on behalf of the PŌ‘AI WAI OLA community

HOUSE COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION

Attn: Chair Chris Lee & Vice-Chair Nicole E. Lowen

HOUSE COMMITTEE ON WATER & LAND

Attn: Chair Ryan I. Yamane & Vice-Chair Ty J.K. Cullen

**TESTIMONY IN OPPOSITION RE: HOUSE BILL 2077,
RELATING TO HYDROELECTRIC POWER
FEBRUARY 16, 2016, 10:00 a.m., CONFERENCE ROOM 325****LATE**

Aloha Chairs Lee and Yamane, Vice-Chairs Lowen and Cullen, and Members of the Committees:

Earthjustice opposes House Bill 2077 (HB 2077) in its current form because it effectively removes any limits on hydropower development in agricultural-zoned lands under the state Land Use Law, HRS ch. 205. More discussion and analysis are needed to support such an open-ended authorization of hydro development on agricultural lands, and to ensure that such development does not undermine bona fide agricultural uses and Hawai'i's water resources, environment, and culture.

Earthjustice has years of experience in Hawai'i in both water resources and clean energy. We recognize the potential value of hydropower to facilitate Hawai'i's clean energy goals. We also emphasize that any hydropower (re)development must comply with Hawai'i's public trust mandates and avoid repeating or perpetuating the mistakes of the past.

Presently, HRS ch. 205 allows hydro facilities on agricultural land that are supportive of and accessory to agricultural activities, and limits the facility size to 500 kW. HB 2077 would remove both these conditions. As the new size criterion, HB 2077 would allow a "small hydropower facility as defined by the United States Department of Energy." While it is not immediately clear from the language or initial research what exactly this definition of "small" means, it appears this may authorize projects up to 30 MW, which could very well cover any hydro project that could conceivably be built in Hawai'i. Moreover, HB 2077 would remove any condition that hydro projects bear any connection with agricultural activities.

In contrast, HRS ch. 205 allows solar energy facilities on agricultural lands, but includes various conditions to restrict the impacts. *See id.* §§ 205-2(d)(6), -4.5(a)(20) & (21). HB 2077 does not contain such measured conditions on hydro facilities, but instead effectively creates a blanket exemption. Hydropower can include many different kinds of projects, some more intrusive and water-intensive than others. Particular concerns arise where projects may simply seek to use outdated plantation ditch diversions and thus perpetuate historical wrongs for

many more decades into the future. Yet HB 2077's blanket scope does not provide any distinctions between projects, or opportunities for project-specific inquiries.

In sum, while Earthjustice does not oppose responsible hydro development in line with 21st-century public trust principles, we believe that HB 2077 in its current form is overbroad. Before embarking on such a path, more discussion and analysis are needed among all affected stakeholders to develop an overall vision and framework for hydro development that addresses the various interrelated land and water issues. We would welcome the legislature initiating such a discussion and would be willing and available to participate. Mahalo nui for the opportunity to testify, and please do not hesitate to contact us for further information.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Isaac H. Moriwake', written in a cursive style.

Isaac H. Moriwake
Attorney
EARTHJUSTICE

KEKAHA HAWAIIAN HOMESTEAD ASSOCIATION

Re: TESTIMONY ON HOUSE BILL 2077, Relating to Hydroelectric Power
COMMITTEE HEARING TUESDAY, FEB. 16, 2016

HOUSE COMMITTEE ON ENERGY & ENVIRONMENTAL PROTECTION

Attn: Chair Chris Lee & Vice-Chair Nicole E. Lowen

HOUSE COMMITTEE ON WATER & LAND

Attn: Chair Ryan I. Yamane & Vice-Chair Ty J.K. Cullen

LATE

February 15, 2016

Aloha Chairs Lee and Yamane, Vice-Chairs Lowen and Cullen, and Members of the Committees:

Kekaha Hawaiian Homestead Association (KHHA) opposes HB 2077 in its current form. While increasing renewable energy sources is important, HB 2077 authorizes water takings at a magnitude beyond that of any hydroproject on Kaua'i. The bill is also silent on how its provisions would interact with existing public trust doctrine, water rights, environmental protection laws and the state regulatory framework that currently exists to enforce those laws.

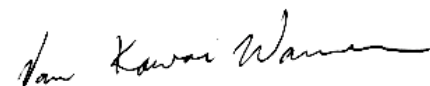
KHHA is a 501(c)3 organization based on Kaua'i and comprised of both native Hawaiians and island-wide community supporters. Together we work toward the betterment of west Kaua'i and its residents, the protection of its environment, and the perpetuation of Hawaiian culture.

Many in our community hail from families with long histories in the westside ahupua'a of Mana and Kona. The rivers and streams that support our local ecosystems and our cultural practices must be protected from aggressive takings of water by private sector interests. HB 2077, in its significant increase of the upper limit of authorized water taking ((from 500 kw to up to 30 megawatts) is inappropriate for our region.

We ask that a more extensive investigation process and a legal analysis of this bill in the context of current water law take place before authorizing any such largescale water takings for hydropower in our state.

Thank you for your attention.

Sincerely,



V. Kawai Warren

President

Kekaha Hawaiian Homestead Association

From: mailinglist@capitol.hawaii.gov
Sent: Tuesday, February 16, 2016 9:57 AM
To: EEPtestimony
Cc: makaala@hawaiian.net
Subject: Submitted testimony for HB2077 on Feb 16, 2016 10:00AM



HB2077

Submitted on: 2/16/2016

Testimony for EEP/WAL on Feb 16, 2016 10:00AM in Conference Room 325

Submitted By	Organization	Testifier Position	Present at Hearing
Makaala Kaaumoana	Hanalei Watershed Hui	Oppose	No

Comments: The Hanalei Watershed Hui is very concerned this proposed legislation reduces and/or removes vital protections for the natural and cultural resources of Hawaii's watersheds. We oppose this bill.

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From: mailinglist@capitol.hawaii.gov
Sent: Monday, February 15, 2016 9:57 AM
To: EEPtestimony
Cc: hokuokekai50@msn.com
Subject: *Submitted testimony for HB2077 on Feb 16, 2016 10:00AM*

HB2077

Submitted on: 2/15/2016

Testimony for EEP/WAL on Feb 16, 2016 10:00AM in Conference Room 325

Submitted By	Organization	Testifier Position	Present at Hearing
Mary Lacques	Individual	Oppose	No

Comments:

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From: mailinglist@capitol.hawaii.gov
Sent: Monday, February 15, 2016 12:46 PM
To: EEPtestimony
Cc: kauaihale@gmail.com
Subject: *Submitted testimony for HB2077 on Feb 16, 2016 10:00AM*

HB2077

Submitted on: 2/15/2016

Testimony for EEP/WAL on Feb 16, 2016 10:00AM in Conference Room 325

Submitted By	Organization	Testifier Position	Present at Hearing
Louisa Wooton	Individual	Oppose	No

Comments:

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From: mailinglist@capitol.hawaii.gov
Sent: Tuesday, February 16, 2016 6:28 AM
To: EEPtestimony
Cc: akamaimom@gmail.com
Subject: Submitted testimony for HB2077 on Feb 16, 2016 10:00AM

HB2077

Submitted on: 2/16/2016

Testimony for EEP/WAL on Feb 16, 2016 10:00AM in Conference Room 325

Submitted By	Organization	Testifier Position	Present at Hearing
Felicia Cowden	Individual	Oppose	No

Comments: Please OPPOSE HB 2077 that increases the amount of water allowed to be diverted for power production from agricultural uses and risks further diverting streams and water flows from the natural run of the river. Having just attended an environmental conference (Bioneers) in California, we heard from experts from Europe of their ongoing process of undoing the pervasive damage of the impacts of power production dams over the decades. Even in these concentrations of population, destroying the run-of-the-river was not worth the gain of power production. A series of smaller power systems that did not create a large percentage of diversion is the far superior choice. On Kauai, we see the willingness of particularly Grove Farm to take 100% of the stream flow for their needs including power production at Kapaia leaving the flow of the river completely dry on its path toward Wailua disrupting aquatic life. There is a profound difference in the ground flora on one side of the diversion to the other. In Kekaha, we walked the au wai with the Commission on Water Resource Management and saw where the power production efforts largely left the Waimea River little more than a trickling stream while the water was dumped into the ocean beyond Kekaha. The United States Federal guidelines are not written for a small island. They should not be utilized for our baseline standard. The environmental balance is fragile and greater care needs to be utilized in the decision process which should be managed at a county level. Felicia Cowden Kilauea, Kauai

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Sent: Monday, February 15, 2016 11:34 PM
To: EEPtestimony
Cc: koadonheacock@yahoo.com
Subject: Submitted testimony for HB2077 on Feb 16, 2016 10:00AM

HB2077

Submitted on: 2/15/2016

Testimony for EEP/WAL on Feb 16, 2016 10:00AM in Conference Room 325

Submitted By	Organization	Testifier Position	Present at Hearing
Don Heacock	Individual	Oppose	No

Comments: As a professional state fisheries biologist I am strongly opposed to HB 2077 because of the significant negative impacts hydropower development has on our Hawaiian stream/river ecosystems. Hydropower developments entrain many downstream migrating 'o'opu nakea (a fish of extreme cultural and economic importance) and 'opae kalaole larvae, where these animals are either killed by the extreme pressure within the penstock, impinged by passage through the turbine, or killed by supersaturated nitrogen in the forebay. Also, hydropower development tends to "dry up" segments of the rivers immediately below the diversions which causes significant loss of fisheries habitat and causes significant degradation of water quality (water becomes very warm with critically low levels of dissolved oxygen, sometimes causing large fish-kills of upstream migrating 'o'opu nakea and 'o'opu nopili. Generally, of all forms of "renewable energy", hydropower is the very last choice because of its severe negative environmental impacts; always chose solar power first. The American Fisheries Society, the largest fisheries conservation and management group in the Americas, considers hydropower development the most damaging of all renewable resources. Please oppose HB 2077. Mahalo, Donald E. Heacock Professional Fisheries Biologist PO Box 1323 Lihue, Kauai, Hawaii 96766 Cell phone: (808) 645-0532

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Sent: Monday, February 15, 2016 4:41 PM
To: EEPtestimony
Cc: inunyabus@gmail.com
Subject: Submitted testimony for HB2077 on Feb 16, 2016 10:00AM

HB2077

Submitted on: 2/15/2016
Testimony for EEP/WAL on Feb 16, 2016 10:00AM in Conference Room 325

Submitted By	Organization	Testifier Position	Present at Hearing
E Yadao	Individual	Oppose	No

Comments: Any more hydro projects are inappropriate for Kauai especially an increase of 30 MW. Please see FERC attachment. This legislature needs to put the brakes on draining the islands of all resources especially affecting streams, waterways, marine life, etc. for the speculation of future developments: you've gone OVER the cumulative limits decades ago. Because people want to build and need more power and resources is no excuse to permit. ENOUGH ALREADY. Is the object of this game to see how much you can squeeze out of Hawaii or to protect the little that is remaining. In past applications FERC has accused KIUC of CLAIM JUMPING. Most importantly, you nor these Hydro corporations have any jurisdiction on these Kingdom lands. The fact that you continue to allow this abuse is appalling. Deny.

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From: mailinglist@capitol.hawaii.gov
Sent: Tuesday, February 16, 2016 9:46 AM
To: EEPtestimony
Cc: klayton1kubo@gmail.com
Subject: *Submitted testimony for HB2077 on Feb 16, 2016 10:00AM*

LATE

HB2077

Submitted on: 2/16/2016

Testimony for EEP/WAL on Feb 16, 2016 10:00AM in Conference Room 325

Submitted By	Organization	Testifier Position	Present at Hearing
Klayton Kubo	Individual	Oppose	No

Comments:

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From: mailinglist@capitol.hawaii.gov
Sent: Tuesday, February 16, 2016 11:04 AM
To: EEPtestimony
Cc: elielstarbright@gmail.com
Subject: Submitted testimony for HB2077 on Feb 16, 2016 10:00AM

LATE

HB2077

Submitted on: 2/16/2016

Testimony for EEP/WAL on Feb 16, 2016 10:00AM in Conference Room 325

Submitted By	Organization	Testifier Position	Present at Hearing
Eliel Starbright	Individual	Oppose	No

Comments: Please OPPOSE HB 2077 On Kauai, we see the willingness of particularly Grove Farm to take 100% of the stream flow for their needs including power production at Kapaia leaving the flow of the river completely dry on its path toward Wailua disrupting aquatic life. There is a profound difference in the ground flora on one side of the diversion to the other. In Kekaha, we walked the au wai with the Commission on Water Resource Management and saw where the power production efforts largely left the Waimea River little more than a trickling stream while the water was dumped into the ocean beyond Kekaha. The United States Federal guidelines are not written for a small island. They should not be utilized for our baseline standard. The environmental balance is fragile and greater care needs to be utilized in the decision process which should managed at a county level.

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From: mailinglist@capitol.hawaii.gov
Sent: Tuesday, February 16, 2016 11:04 AM
To: EEPtestimony
Cc: kitslegacy@gmail.com
Subject: Submitted testimony for HB2077 on Feb 16, 2016 10:00AM



HB2077

Submitted on: 2/16/2016

Testimony for EEP/WAL on Feb 16, 2016 10:00AM in Conference Room 325

Submitted By	Organization	Testifier Position	Present at Hearing
S. Lyn McNutt	Individual	Oppose	No

Comments: There are plenty of other SMALLER alternatives that are appropriate for Hawaii. 1. FEDERAL definitions of "small" hydro have no applicability here in Hawaii. 2. Water diversion is a major problem in Hawaii, and solar is a far better alternative to allowing MORE diversion. 3. Water diversion and use on many Agricultural Lands in Hawaii are currently being contested in court. This seems like an end run to avoid restoring water as REQUIRED after the closure of plantation agriculture.

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From: mailinglist@capitol.hawaii.gov
Sent: Tuesday, February 16, 2016 11:01 AM
To: EEPtestimony
Cc: joeborden@hotmail.com
Subject: Submitted testimony for HB2077 on Feb 16, 2016 10:00AM



HB2077

Submitted on: 2/16/2016

Testimony for EEP/WAL on Feb 16, 2016 10:00AM in Conference Room 325

Submitted By	Organization	Testifier Position	Present at Hearing
Joseph Borden	Individual	Comments Only	No

Comments: I do not support this bill. It will reduce the already minute water we currently have to grow and raise food.

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