



# HAWAII STATE ENERGY OFFICE STATE OF HAWAII

235 South Beretania Street, 5<sup>TH</sup> Floor, Honolulu, HI 96813 | energy.hawaii.gov

DAVID Y. IGE  
GOVERNOR

SCOTT J. GLENN  
CHIEF ENERGY OFFICER

(808) 587-3807

**LATE**

Testimony of  
**SCOTT J. GLENN, Chief Energy Officer**

before the  
**SENATE COMMITTEES ON WATER AND LAND  
AND  
ENERGY, ECONOMIC DEVELOPMENT, AND TOURISM**

Wednesday, February 5, 2020

2:45 PM

State Capitol, Conference Room 414

In SUPPORT of  
**SB 2805**  
**RELATING TO THE OFFICE OF PLANNING.**

Chairs Kahele and Wakai, Vice Chairs Keith-Agaran and Taniguchi, and members of the Committees. The Hawaii State Energy Office (HSEO) supports SB 2805, which requires the office of planning to prepare a comprehensive renewable energy siting plan, in consultation with the office of energy, land use commission, planning departments of each county, electric utilities, and with public input and requires the office of planning to submit a report on the utility-scale renewable energy siting plan to the legislature no later than twenty days prior to the convening of the regular session of 2022.

With the issues in the energy sector becoming increasingly complicated, interdependent across energy consuming sectors, impacting land use decisions, and affecting customers; it is critical that stakeholders are engaged and informed on the impacts of significant decisions that must be made to transform the sector.

An inventory of suitable land for each of the renewable energy technologies on each of the islands and understanding how much of the suitable land will be required for renewable energy development to achieve various pathways to meet the renewable portfolio standards is a critical step in achieving the 100 percent renewable portfolio standard by 2045. While the utilities develop scenarios under the regulatory oversight of the PUC to meet the benchmarks of the renewable portfolio standard, those resource scenarios should be translated into land requirements that reflect renewable energy in amounts sufficient to achieve the energy modeled. This illustration will allow engagement with state agencies, local government, and community stakeholders to better understand the potential impacts various energy resource scenarios will have on the land use on each island.

The HSEO has developed tools to better understand land use impacts and technical requirements of moving Hawaii toward its clean energy goals. Hawaii Revised Statutes (HRS) §196-71(b)(1) directs the HSEO to, “Provide analysis and planning to actively develop and inform policies to achieve energy efficiency, renewable energy, energy resiliency, and clean transportation goals with the legislature, public utilities commission, state agencies, and other relevant stakeholders”. Given this direction, the HSEO feels it is well positioned to lead the study in consultation with the office of planning, land use commission, planning departments of each county, electric utilities, and with public input. However, we note that the measure title is currently “RELATING TO THE OFFICE OF PLANNING”.

The Hawaii Advanced Visualization Environment Nexus (HAVEN) utilizes 'storytelling' in a new, interactive, high-resolution medium; a three-dimensional topographical map that is hands-on, allowing users to explore and compare the plans for large-scale renewable energy deployment. Users are able to engage with various energy planning scenarios; add and remove map layers, such as the technical potential for solar and wind resources, agricultural lands, government-owned lands, and existing transmission infrastructure; control chart views; and scroll through time to visually represent the land use requirements of renewable energy resource buildout for each scenario. The better energy plans and policies are understood, the better decisions can be made towards achieving the State's energy goals.

HSEO notes that the study, including the necessary stakeholder engagement, will require an appropriation to accomplish. The objectives of this bill align directly with the stated objectives for the use of the Energy Security Special Fund, (HRS) §201-12.8(b)(1), “To support the Hawaii clean energy initiative program and projects that promote and advance dependable and affordable energy, renewable energy, energy efficiency, energy self-sufficiency, and greater energy security and resiliency for the State and public facilities” and (HRS) §201-12.8(b)(3), “To support achieving the zero emissions clean economy target set forth in (HRS) §225P-5.”

Thank you for the opportunity to testify on this bill.



183 Pinana St., Kailua, HI 96734 • 808-262-1285 • info@350Hawaii.org

To: The Senate Committees On Water And Land;  
and Energy, Economic Development, And Tourism  
From: Brodie Lockard, Founder, 350Hawaii.org  
Date: Wednesday, February 5, 2020, 2:45 pm

**LATE**

**In strong support of SB 2805**

Dear Chairs Kahele and Wakai, and members:

350Hawaii strongly supports SB 2805.

A comprehensive renewable energy siting plan is an indispensable part of reaching Hawaii's clean energy goals. Siting without proper coordination and consideration of the public and the many issues involved in wind farms and solar farms can result in inefficiencies, conflicts among contractors, wasted time and money, and avoidable hardships in communities. The Na Pua Makani wind farm in Kahuku is only the most recent example of poorly planned renewable energy siting.

Please pass this bill and help Hawaii reach its clean energy goals with less waste and harm to residents.

Brodie Lockard  
Founder, 350Hawaii.org

**SB-2805**

Submitted on: 1/31/2020 6:57:36 PM

Testimony for WTL on 2/5/2020 2:45:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Dylan P. Armstrong	Individual	Support	No

Comments:

**SB-2805**

Submitted on: 2/3/2020 7:46:04 PM

Testimony for WTL on 2/5/2020 2:45:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Toni Withington	Individual	Support	No

Comments:

If we want to know where we are going with alternative energy, if we really want to reach 100% renewable sources as soon as possible, we need to plan the direction. This bill gives us hope that we can get serious about getting off of fossil fuel.

Please vot YES.

Toni Withington    Hawi, Hawaii

**SB-2805**

Submitted on: 2/3/2020 8:40:56 PM

Testimony for WTL on 2/5/2020 2:45:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Benton Kealii Pang, Ph.D.	Individual	Support	No

Comments:

**SB-2805**

Submitted on: 2/4/2020 4:38:40 PM

Testimony for WTL on 2/5/2020 2:45:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Mariko Jackson	Individual	Support	No

Comments:

I am in support of bill 2805. I believe it is important to have a plan that includes relevant voices of the community so as to ensure that plans are made not only in ways that are inaccessible to average citizens. These plans also must consider relevant research and data available as important weights rather than simply allowing energy corporations to pursue their profits because they "followed the process".

Achieving renewable energy needs in Hawaii must be done in partnership with the community.

**SB-2805**

Submitted on: 2/4/2020 9:49:35 PM

Testimony for WTL on 2/5/2020 2:45:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
isella	Individual	Support	No

Comments:

Aloha Chairs Kahele and Wakai, Vice Chairs Keith-Agaran, and Taniguchi and other Committee members:

I am writing in support of SB 2805 with recommendations to include additional clarifying language regarding public input in order to ensure meaningful involvement of the community in the development of any proposed energy siting plan. SB2805 calls for the office of planning to prepare a “comprehensive renewable energy siting plan, in consultation with the office of energy, land use commission, planning departments of each county, electric utilities, and with public input[]”is a step in the right direction. However, SB 2805 needs to clarify what role the public will play in the creation of this siting plan.

One possible option would be to utilize a working group to create the proposed siting plan. While most working groups are made up of industry and government officials, it is critical that this group include significant community representation. While the exact make up of any such group will need to be agreed upon, I would suggest that in order to ensure meaningful community involvement, it should, at a minimum incorporate the following:

-At least 50% non-industry/ government members

-Teachers from Department of Education (DOE) school(S) that are within two miles of a utility scale renewable energy project.

-Parents of DOE students that attend a school within two miles of a utility scale renewable energy project.

-Students from the University of Hawaii



-Representatives from community action groups

-Members of Native Hawaiian community organizations

-Representatives from neighborhood boards

Unfortunately, the arrest of more than 200 community members protesting the late wind project is an example of what happens when there is no meaningful community involvement. During development of the Na Pua Makani wind project, the voices and concerns of the Kahuku community were ignored and were not addressed by the government or developer. If these conflicts are to be prevented, decision makers must be open-minded and provide a place for the community to have a stronger presence during the decision making process to prevent poor projects such as the Na Pua Makani wind project from being developed.

If Hawaii is to move forward and be successful in achieve its goal of 100% renewable energy powered by 2045, providing space for the community to have a meaningful say and involvement is the step in the right direction.”

Mahalo,

Your Name

Isella Hoopai

Cell: (808)594-6949

87-131 Helelua street

Waianae, HI 96792

**SB-2805**

Submitted on: 2/4/2020 7:05:28 AM

Testimony for WTL on 2/5/2020 2:45:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Robin Kaye	Individual	Support	No

Comments:

This bill is long overdue and well worth your Committee's support. For too long, our renewable energy "solutions" have been so top-heavy that they inevitably fall down. Big Wind for Lānaʻi and Molokaʻi serve as good examples of poor, nay absent planning. Lānaʻi and Molokaʻi residents were vocal in their opposition, yet they were uniformly ignored until late in the process when key partners in the Legislature, the Governor's administration and the PUC began to question the possibility of success given the community's visible and vocal anger. Vast amounts of time and money -- not to say irreparable rips in a community's social fabric -- could have been avoided if the impacted communities were involved in the beginning. If site planning, like that proposed in this bill, was undertaken **with early community input**, Lānaʻi could have avoided almost five years of anger, hostility, protest and disruption. This bill would go a long way to assuring those mistakes do not happen again. Please support and pass this bill. Mahalo.

**SB-2805**

Submitted on: 2/4/2020 5:46:29 PM

Testimony for WTL on 2/5/2020 2:45:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Kari Matadobra	Individual	Support	No

Comments:

Aloha Chairs Kahele and Wakai, Vice Chairs Keith-Agaran, and Taniguchi and other Committee members:

I am writing in strong support of SB 2805 to involve communities more with recommendations to include additional clarifying language regarding public input in order to ensure meaningful involvement of the community in the development of any proposed energy siting plan. SB2805 calls for the office of planning to prepare a “comprehensive renewable energy siting plan, in consultation with the office of energy, land use commission, planning departments of each county, electric utilities, and with public input[]” is a start. SB 2805 however needs to be more specific on what role the public will play in the creation of this siting plan.

In order to ensure meaningful community involvement, it should, at a minimum incorporate the following:

- At least 50% non-industry/ government members
- Teachers from Department of Education (DOE) school(S) that are within two miles of a utility scale renewable energy project.
- Parents of DOE students that attend a school within two miles of a utility scale renewable energy project.
- Students from the University of Hawaii
- Representatives from community action groups
- Members of Native Hawaiian community organizations
- Representatives from neighborhood boards

Unfortunately, the arrest of over 200 community members protesting the Kahuku wind project is an example of what happens a community is not involved. During development of the Na Pua Makani wind project, the voices and concerns of the Kahuku community were ignored and were not addressed by the government or developer.

In order for Hawaii to move forward and achieve its goal of 100% renewable energy powered by 2045, it is necessary to provide space for the community to have a meaningful say and to be involved.”

Aloha, Kari Matadobra, substitute high school Science teacher and part-time stay-at-home mom to a keiki toddler

**SB-2805**

Submitted on: 2/4/2020 7:15:09 PM

Testimony for WTL on 2/5/2020 2:45:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Angela Huntemer	Individual	Support	No

Comments:

Aloha Chairs Kahele and Wakai, Vice Chairs Keith-Agaran, and Taniguchi and other Committee members:

I am a resident of Kahuku and am writing in support of SB 2805 with recommendations to include additional clarifying language regarding public input in order to ensure meaningful involvement of the community in the development of any proposed energy siting plan. SB2805 calls for the office of planning to prepare a “comprehensive renewable energy siting plan, in consultation with the office of energy, land use commission, planning departments of each county, electric utilities, and with public input[]”is a step in the right direction. However, SB 2805 needs to clarify what role the public will play in the creation of this siting plan.

One possible option would be to utilize a working group to create the proposed siting plan. While most working groups are made up of industry and government officials, it is critical that this group include significant community representation. While the exact make up of any such group will need to be agreed upon, I would suggest that in order to ensure meaningful community involvement, it should, at a minimum incorporate the following:

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- Students from the University of Hawaii
- Representatives from community action groups
- Members of Native Hawaiian community organizations
- Representatives from neighborhood boards

Unfortunately, the arrest of more than 200 community members protesting the late wind project is an example of what happens when there is no meaningful community involvement. During development of the Na Pua Makani wind project, the voices and concerns of the Kahuku community were ignored and were not addressed by the government or developer. If these conflicts are to be prevented, decision makers must be open-minded and provide a place for the community to have a stronger presence

during the decision making process and prevent poor projects such as the Na Pua Makani wind project from being developed.

If Hawaii is to move forward and be successful in achieve its goal of 100% renewable energy powered by 2045, providing space for the community to have a meaningful say and involvement is the step in the right direction

**SB-2805**

Submitted on: 2/4/2020 10:11:01 PM

Testimony for WTL on 2/5/2020 2:45:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Joshua kaina	Individual	Support	No

Comments:

I am a resident of Kahuku. I am writing in support of SB 2805 with recommendations to include additional clarifying language regarding public input in order to ensure meaningful involvement of the community in the development of any proposed energy siting plan. SB 2805 needs to clarify what role the public will play in the creation of this siting plan.

One possible option would be to utilize a working group to create the proposed siting plan. While most working groups are made up of industry and government officials, it is critical that this group include significant community representation. While the exact make up of any such group will need to be agreed upon, I would suggest that in order to ensure meaningful community involvement, it should, at a minimum incorporate the following:

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If Hawaii is to move forward and be successful in achieve its goal of 100% renewable energy powered by 2045, providing space for the community to have a meaningful say and involvement is the step in the right direction.





**SB-2805**

Submitted on: 2/4/2020 7:55:32 AM

Testimony for WTL on 2/5/2020 2:45:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Nathan Yuen	Individual	Support	No

Comments:

Dear Chair Kaiali'i Kahele, Vice-Chair Gilbert S.C. Keith-Agaran, and members of the Senate Committee on Water and Land:

I strongly support SB2805 which directs the Office of Planning to prepare a siting plan that for renewable energy projects.

There are limited locations where wind turbines and solar farms can be built. When endangered species and human communities are factored in the locations where these facilities can be built is further constrained and the subject of great controversy.

In order to meet the renewable energy goals, we need a comprehensive land use strategy for renewable energy throughout the Hawaiian islands that mitigates the worst effects to wind turbines and solar farms have on local communities and endangered species.

The Hawaiian Islands needs a siting plan for renewable energy projects. I strong support SB2805.

**SB-2805**

Submitted on: 2/4/2020 4:03:47 PM

Testimony for WTL on 2/5/2020 2:45:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Phaethon Keeney	Individual	Support	No

Comments:

**Please SUPPORT SB 2805**

Dear Chairs Kahele and Wakai, and members:

As one of [350Hawaii.org](http://350Hawaii.org)'s 6,000 members, I strongly support SB 2805.

A comprehensive renewable energy siting plan is an indispensable part of reaching Hawaii's clean energy goals. Siting without proper coordination and consideration of the public and the many issues involved in wind farms and solar farms can result in inefficiencies, conflicts among contractors, wasted time and money, and avoidable hardships in communities. The Na Pua Makani wind farm in Kahuku is only the most recent example of poorly planned renewable energy siting.

Please pass this bill and help Hawaii reach its clean energy goals with less waste and harm to residents.

Mahalo,

Phaethon Keeney

Honoka'a Hawai'i

**SB-2805**

Submitted on: 2/4/2020 6:55:56 PM

Testimony for WTL on 2/5/2020 2:45:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Caroline Kunitake	Individual	Support	No

Comments:

To: The Senate Committees On Water And Land;  
and Energy, Economic Development, And Tourism

From: **Caroline Kunitake**

Date: Wednesday, February 5, 2020, 2:45 pm

**In strong support of SB 2805**

Dear Chairs Kahele and Wakai, and members:

As one of [350Hawaii.org](http://350Hawaii.org)'s 6,000 members, I strongly support SB 2805.

A comprehensive renewable energy siting plan is an indispensable part of reaching Hawaii's clean energy goals. Siting without proper coordination and consideration of the public and the many issues involved in wind farms and solar farms can result in inefficiencies, conflicts among contractors, wasted time and money, and avoidable hardships in communities. The Na Pua Makani wind farm in Kahuku is only the most recent example of poorly planned renewable energy siting.

Please pass this bill and help Hawaii reach its clean energy goals with less waste and harm to residents.

Mahalo,

Caroline Kunitake

**SB-2805**

Submitted on: 2/4/2020 10:36:34 PM

Testimony for WTL on 2/5/2020 2:45:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Kananiloaanuenu Ponciano	Individual	Support	No

Comments:

Re: In **STRONG SUPPORT** of SB2805

Aloha Chairs Kahele and Wakai, Vice Chairs Keith-Agaran, and Taniguchi and other Committee members:

I am writing in support of SB 2805 with recommendations to include additional clarifying language regarding public input in order to ensure meaningful involvement of the community in the development of any proposed energy siting plan. SB2805 calls for the office of planning to prepare a “comprehensive renewable energy siting plan, in consultation with the office of energy, land use commission, planning departments of each county, electric utilities, and with public input[]”is a step in the right direction. However, SB 2805 needs to clarify what role the public will play in the creation of this siting plan.

One possible option would be to utilize a working group to create the proposed siting plan. While most working groups are made up of industry and government officials, it is critical that this group include significant community representation. While the exact make up of any such group will need to be agreed upon, I would suggest that in order to ensure meaningful community involvement, it should, at a minimum incorporate the following:

- At least 50% non-industry/ government members
- Teachers from Department of Education (DOE) school(S) that are within two miles of a utility scale renewable energy project.
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- Representatives from community action groups
- Members of Native Hawaiian community organizations
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Unfortunately, the arrest of more than 200 community members protesting the late wind project is an example of what happens when there is no meaningful community involvement. During development of the Na Pua Makani wind project, the voices and

concerns of the Kahuku community were ignored and were not addressed by the government or developer. If these conflicts are to be prevented, decision makers must be open-minded and provide a place for the community to have a stronger presence during the decision making process to prevent poor projects such as the Na Pua Makani wind project from being developed.

If Hawaii is to move forward and be successful in achieve its goal of 100% renewable energy powered by 2045, providing space for the community to have a meaningful say and involvement is the step in the right direction.

Mahalo Nui,

Kananiloa'anuenue Ponciano

Kahuku Resident

**SB-2805**

Submitted on: 2/4/2020 3:26:21 PM

Testimony for WTL on 2/5/2020 2:45:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Lois Crozer	Individual	Support	No

Comments:

**SB-2805**

Submitted on: 2/4/2020 11:02:11 PM

Testimony for WTL on 2/5/2020 2:45:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Kaimi Hernandez	Individual	Support	No

Comments:

Aloha Chairs Kahele and Wakai, Vice Chairs Keith-Agaran, and Taniguchi and other Committee members:

I am writing in support of SB 2805 with recommendations to include additional clarifying language regarding public input in order to ensure meaningful involvement of the community in the development of any proposed energy siting plan. SB2805 calls for the office of planning to prepare a “comprehensive renewable energy siting plan, in consultation with the office of energy, land use commission, planning departments of each county, electric utilities, and with public input[]”is a step in the right direction. However, SB 2805 needs to clarify what role the public will play in the creation of this siting plan.

One possible option would be to utilize a working group to create the proposed siting plan. While most working groups are made up of industry and government officials, it is critical that this group include significant community representation. While the exact make up of any such group will need to be agreed upon, I would suggest that in order to ensure meaningful community involvement, it should, at a minimum incorporate the following:

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- Parents of DOE students that attend a school within two miles of a utility scale renewable energy project.
- Students from the University of Hawai'i
- Representatives from community action groups
- Members of Native Hawaiian community organizations
- Representatives from neighborhood boards

Unfortunately, the arrest of more than 200 community members protesting the late wind project is an example of what happens when there is no meaningful community involvement. During development of the Na Pua Makani wind project, the voices and concerns of the Kahuku community were ignored and were not addressed by the government or developer. If these conflicts are to be prevented, decision makers must be open-minded and provide a place for the community to have a stronger presence during the decision making process to prevent poor projects such as the Na Pua Makani wind project from being developed.

If Hawai'i is to move forward and be successful in achieve its goal of 100% renewable energy powered by 2045, providing space for the community to have a meaningful say and involvement is the step in the right direction.

Mahalo,

Ka'imi Hernandez



**SB-2805**

Submitted on: 2/4/2020 7:39:47 PM

Testimony for WTL on 2/5/2020 2:45:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Jessica dos Santos	Individual	Support	No

Comments:

**Aloha Chairs Kahele and Wakai, Vice Chairs Keith-Agaran, and Taniguchi and other Committee members:**

**My name is Jessica dos Santos and I am writing in support of SB 2805 with recommendations to include additional clarifying language regarding public input in order to ensure meaningful involvement of the community in the development of any proposed energy siting plan. SB2805 calls for The office of planning to prepare a “comprehensive renewable energy siting plan, in consultation with the office of energy, land use commission, planning departments of each county, electric utilities, and with public input[]”is a step in the right direction. However, SB 2805 needs to clarify what role the public will play in the creation of this siting plan.**

**One possible option would be to utilize a working group to create the proposed siting plan. While most working groups are made up of industry and government officials, it is critical that this group include significant community representation. While the exact make up of any such group will need to be agreed upon, I would suggest that in order to ensure meaningful community involvement, it should, at a minimum incorporate the following:**

- At least 50% non-industry/ government members**
- Teachers from Department of Education (DOE) school(S) that are within two miles of a utility scale renewable energy project.**
- Parents of DOE students that attend a school within two miles of a utility scale renewable energy project.**
- Students from the University of Hawaii**
- Representatives from community action groups**
- Members of Native Hawaiian community organizations**
- Representatives from neighborhood boards**

**Unfortunately, the arrest of more than 200 community members protesting the late wind project is an example of what happens when there is no meaningful community involvement. During development of the Na Pua Makani wind project, the voices and concerns of the Kahuku community were ignored and were not addressed by the government or developer. If these conflicts are to be prevented,**

**decision makers must be open-minded and provide a place for the community to have a stronger presence during the decision making process to prevent poor projects such as the Na Pua Makani wind project from being developed.**

**If Hawaii is to move forward and be successful in achieving its goal of 100% renewable energy powered by 2045, providing space for the community to have a meaningful say and involvement is the step in the right direction.**

**SB-2805**

Submitted on: 2/4/2020 5:19:28 PM

Testimony for WTL on 2/5/2020 2:45:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Sherry Pollack	Individual	Support	No

Comments:

**SB-2805**

Submitted on: 2/4/2020 11:13:00 PM

Testimony for WTL on 2/5/2020 2:45:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Brenda O Watene	Individual	Support	No

Comments:

I am in favor of SB2805 with strong regard to the protection of children's quality of education in public schools, protection of our island's endangered species' limited natural habitats, identified sacred lands of the native Hawaiian culture and the safety of all residents within close proximity to any proposed industrial sized projects. There is a global environmental crisis threatening the entirety of mankind at hand that we are all very well aware of. The residents and natives of this island have been made aware of the governors intentions to move swiftly in the direction of renewable energy and we expect much to change. The public is willing to do their part as has been shown with the investments in rooftop solar, electric cars, reusable containers, etc.

There are so many options to move in the direction of renewable energy that could actually reduce the costs of electricity and yet the ones that have been chosen not only require increases in electricity rates but as reported by numerous medical journals and peer reviewed studies are positively associated with negative health and wellness effects to those within close proximity. The 568 ft industrial turbines of Kahuku have been placed in close proximity to an Intermediate and High School, an Elementary School, a Hospital and medical center, preschools, and our entire community!! The World Health Organization reports health effects. Canada, New Zealand, Europe, and states throughout the US also have these reports. It should not be close to any community, and if you can't find the space to not put communities and residents at risk than perhaps a small island is not the right fit for Industrial sized renewable energy.

These islands are known for the beauty of their mountains, oceans, plants and animals. When judging the "scenic view" value of the lands for development are you considering all the components that create the value of all the "scenic views"? Rural communities are so tiny that any threats to the land, plant, water and animal livelihood changes everything surrounding that area. It is the same throughout life on earth as is part of the reason we're trying to reverse the mistakes of overuse of natural resources...only to make more mistakes of raping more natural resources: the wind, land, and wildlife?? The turbines in Kahuku are permitted to kill endangered species such as the native Hawaiian hoary bat and are changing the wind patterns. We predict increases in the mosquito population and who knows what else because of these changes.

For these reasons defined I support SB2805. Our health and our endangered species should not be put at risk! Trust the people. Empower the communities by decentralizing the energy systems and providing incentives for individually owned battery powered homes and cars..or improve the grid so the solar panels we already have can be put to full use! Help us to help you to help save our planet.

**SB-2805**

Submitted on: 2/5/2020 7:40:27 AM

Testimony for WTL on 2/5/2020 2:45:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Lynn Aaberg	Individual	Support	No

Comments:

Dear Chairs Kahele and Wakai, and members:

As one of [350Hawaii.org](http://350Hawaii.org)'s 6,000 members, I strongly support SB 2805.

A comprehensive renewable energy siting plan is an indispensable part of reaching Hawaii's clean energy goals. Siting without proper coordination and consideration of the public and the many issues involved in wind farms and solar farms can result in inefficiencies, conflicts among contractors, wasted time and money, and avoidable hardships in communities. The Na Pua Makani wind farm in Kahuku is only the most recent example of poorly planned renewable energy siting.

Please pass this bill and help Hawaii reach its clean energy goals with less waste and harm to residents.

Mahalo,

Lynn Aaberg

**SB-2805**

Submitted on: 2/5/2020 12:47:00 AM

Testimony for WTL on 2/5/2020 2:45:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Koohan Paik	Individual	Support	No

Comments:

**SB-2805**

Submitted on: 2/4/2020 11:01:13 PM

Testimony for WTL on 2/5/2020 2:45:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
melissa Kaonohi-Camit	Individual	Support	No

Comments:

Aloha,

I am writing in support of SB 2805 with recommendations to include additional clarifying language regarding public input in order to ensure meaningful involvement of the community in the development of any proposed energy siting plan. SB2805 calls for the office of planning to prepare a “comprehensive renewable energy siting plan, in consultation with the office of energy, land use commission, planning departments of each county, electric utilities, and with public input[]”is a step in the right direction. However, SB 2805 needs to clarify what role the public will play in the creation of this siting plan.

One possible option would be to utilize a working group to create the proposed siting plan. While most working groups are made up of industry and government officials, it is critical that this group include significant community representation. While the exact make up of any such group will need to be agreed upon, I would suggest that in order to ensure meaningful community involvement, it should, at a minimum incorporate the following:

- At least 50% non-industry/ government members
- Teachers from Department of Education (DOE) school(S) that are within two miles of a utility scale renewable energy project.
- Parents of DOE students that attend a school within two miles of a utility scale renewable energy project.
- Students from the University of Hawaii
- Representatives from community action groups
- Members of Native Hawaiian community organizations
- Representatives from neighborhood boards

Unfortunately, the arrest of more than 200 community members protesting the late wind project is an example of what happens when there is no meaningful community involvement. During development of the Na Pua Makani wind project, the voices and concerns of the Kahuku community were ignored and were not addressed by the government or developer. If these conflicts are to be prevented, decision makers must be open-minded and provide a place for the community to have a stronger presence



during the decision making process to prevent poor projects such as the Na Pua Makani wind project from being developed.

If Hawaii is to move forward and be successful in achieve its goal of 100% renewable energy powered by 2045, providing space for the community to have a meaningful say and involvement is the step in the right direction.”

Mahalo,

Melissa Ka'onohi-Camit

Kahuku Community Member

Wife and mother of 3 children, one who is diagnosed with Epilepsy

DOE Emoloyee in Special Education at Kahuku Elementary

**SB-2805**

Submitted on: 2/4/2020 7:02:15 AM

Testimony for WTL on 2/5/2020 2:45:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Dawn Bruns	Individual	Oppose	No

Comments:

This is very concerning to me. My understanding from Henry Curtis (when I mentioned to him that NY State was doing something similar) is it would be very dangerous to go in this direction - to have a vetted plan that designates sites the State considers to be suitable for a wind farm - because apparently then the burden of proof, when it comes time for the wind farm project, is shifted from the applicant to the resident. It seems like it would be particularly dangerous to allow the current administration to develop such a plan. I do think it's crucial for the tradeoffs of each type of project to be analyzed - because if I had known about the adverse health effects of wind turbines to residents up to five miles away, I would not have been so opposed to the at-sea wind turbines 15 miles away from homes, nor would I have opposed solar on ag land. I think if people understood these tradeoffs, they would be more willing to accommodate the least-harmful (but nonetheless harmful) solar and at-sea wind turbine projects. But absolutely NO to pre-approved sites for wind turbines (unless they are required to stay five miles away from residential-zoned areas). Thank you for all of your efforts on this, but please be careful with this one.

**SB-2805**

Submitted on: 2/4/2020 10:58:15 PM

Testimony for WTL on 2/5/2020 2:45:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Audrey Enseki-Tom	Individual	Support	No

Comments:

This bill is important to the development of clean energy in Hawaii.

**SB-2805**

Submitted on: 2/4/2020 10:40:24 PM

Testimony for WTL on 2/5/2020 2:45:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Alexander Ponciano	Individual	Support	No

Comments:

Aloha Chairs Kahele and Wakai, Vice Chairs Keith-Agaran, and Taniguchi and other Committee members:

**I am writing in support of SB 2805 with recommendations to include additional clarifying language regarding public input in order to ensure meaningful involvement of the community in the development of any proposed energy siting plan.** SB2805 calls for the office of planning to prepare a “comprehensive renewable energy siting plan, in consultation with the office of energy, land use commission, planning departments of each county, electric utilities, and with public input[]”is a step in the right direction. However, SB 2805 needs to clarify what role the public will play in the creation of this siting plan.

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during the decision making process to prevent poor projects such as the Na Pua Makani wind project from being developed.

If Hawaii is to move forward and be successful in achieve its goal of 100% renewable energy powered by 2045, providing space for the community to have a meaningful say and involvement is the step in the right direction.

Mahalo,

Alexander Ponciano

Kahuku Resident

**SB-2805**

Submitted on: 2/4/2020 5:10:45 PM

Testimony for WTL on 2/5/2020 2:45:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Jean Simon	Individual	Support	No

Comments:

**SB-2805**

Submitted on: 2/4/2020 3:07:27 PM

Testimony for WTL on 2/5/2020 2:45:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Nanea Lo	Individual	Support	No

Comments:

Dear Chairs Kahele and Wakai, and members:

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A comprehensive renewable energy siting plan is an indispensable part of reaching Hawaii's clean energy goals. Siting without proper coordination and consideration of the public and the many issues involved in wind farms and solar farms can result in inefficiencies, conflicts among contractors, wasted time and money, and avoidable hardships in communities. The Na Pua Makani wind farm in Kahuku is only the most recent example of poorly planned renewable energy siting.

Please pass this bill and help Hawaii reach its clean energy goals with less waste and harm to residents.

Nanea Lo

**SB-2805**

Submitted on: 2/4/2020 3:17:43 PM

Testimony for WTL on 2/5/2020 2:45:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Sunny	Individual	Support	No

Comments:

SENATE COMMITTEE ON WATER AND LAND

&

SENATE COMMITTEE ON ENERGY, ECONOMIC DEVELOPMENT, AND TOURISM

February 5, 2020, 2:45 A.M. Room 414 (Testimony is 2 pages long)

TESTIMONY SUPPORTING THE INTENT OF SB 2805

Aloha Chairs Kahele and Wakai, Vice Chairs Keith-Agaran, and Taniguchi and other Committee members:

Aloha, My name is Sunny Unga and I am writing in support of SB 280,5 with recommendations to include additional clarifying language regarding public input in order to ensure meaningful involvement of the community in the development of any proposed energy siting plan. SB2805 calls for The office of planning to prepare a “comprehensive renewable energy siting plan, in consultation with the office of energy, land use commission, planning departments of each county, electric utilities, and with public input[]”is a step in the right direction. However, SB 2805 needs to clarify what role the public will play in the creation of this siting plan.

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If Hawaii is to move forward and be successful in achieving its goal of 100% renewable energy powered by 2045, providing space for the community to have a meaningful say and involvement is the step in the right direction.

**SB-2805**

Submitted on: 2/4/2020 3:12:00 PM

Testimony for WTL on 2/5/2020 2:45:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Kelsey Nichols	Individual	Support	No

Comments:

**SB-2805**

Submitted on: 2/4/2020 2:03:59 PM

Testimony for WTL on 2/5/2020 2:45:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
David Dinner	Individual	Support	No

Comments: