

SYLVIA LUKE



### DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM

KA 'OIHANA HO'OMOHALA PĀ'OIHANA, 'IMI WAIWAI A HO'OMĀKA'IKA'I

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# Statement of JAMES KUNANE TOKIOKA Director

Department of Business, Economic Development, and Tourism before the

### SENATE COMMITTEE ON WAYS AND MEANS

Tuesday, February 18, 2025 10:01 AM State Capitol, Conference Room 211

In consideration of SB 1269, SD1
RELATING TO GEOTHERMAL RESOURCES.

Aloha Chair Dela Cruz, Vice Chair Moriwaki, and Members of the Committee,

I am writing to express my support for SB1269, SD1, which advances geothermal energy development in Hawaii as a critical component of our state's renewable energy portfolio. Geothermal energy is not only a key solution to achieving Hawaii's 100% Renewable Portfolio Standard (RPS) mandate by 2045 but also an essential resource for stabilizing energy costs, particularly for our manufacturing and data center industries.

Hawaii's heavy reliance on imported fossil fuels has historically resulted in some of the highest electricity costs in the nation. As outlined in the geothermal roadmap of DBEDT's Hawaii Economic Landscape, increasing our geothermal capacity presents a strategic opportunity to enhance grid reliability, reduce dependency on volatile global oil markets, and provide cost-effective energy solutions that benefit both businesses and consumers.

Furthermore, the advancement of geothermal energy development is critical to enabling Hawaii's future economic growth, particularly in sectors such as advanced manufacturing and data centers. These industries depend on reliable and affordable electricity to remain competitive. Without a stable energy supply, Hawaii risks losing out on investment opportunities that could otherwise diversify our economy, create high-paying jobs, and foster technological innovation.

A key initiative supporting this effort is the Memorandum of Agreement (MOA) between the Hawaii Technology Development Corporation (HTDC) and the University of Hawaii DBEDT Testimony SB 1269, SD1 Page 2 of 2

(UH). This partnership is actively working towards the development of a commercial geothermal project, leveraging UH's expertise in geological research and HTDC's role in fostering innovation and economic diversification. The MOA outlines a structured framework, including key deliverables such as program and project management, community engagement and outreach, long-term development planning, strategic advisory efforts, and the documentation of key development assets. These deliverables align directly with the objectives of SB1269, SD1, and provide a concrete pathway to accelerating geothermal exploration and commercialization.

To achieve this, SB1269, SD1, provides a necessary framework to support and expand these ongoing efforts by facilitating geothermal exploration, streamlining permitting processes, and promoting research and development initiatives. By leveraging our natural resources and existing institutional partnerships, we can make a meaningful impact on our state's energy independence and economic resilience.

I respectfully urge this committee to pass SB1269, SD1, to secure Hawaii's clean energy future while ensuring long-term energy affordability for businesses and residents alike.

Mahalo for your time and consideration.



Email: communications@ulupono.com

## SENATE COMMITTEE ON WAYS AND MEANS Tuesday, February 18, 2025 — 10:01 a.m.

## Ulupono Initiative <u>supports the intent of</u> SB 1269 SD 1, Relating to Geothermal Resources.

Dear Chair Dela Cruz and Members of the Committee:

My name is Mariah Yoshizu, and I am the Government Affairs Associate at Ulupono Initiative. We are a Hawai'i-focused impact investment firm that strives to improve the quality of life throughout the islands by helping our communities become more resilient and self-sufficient through locally produced food, renewable energy and clean transportation choices, and better management of freshwater resources.

**Ulupono** <u>supports the intent of SB 1269 SD 1</u>, which appropriates funds to the Department of Business, Economic Development, and Tourism (DBEDT) for continued exploration and identification of geothermal resources and commercial viability for utility-scale geothermal production in counties with a population of less than 300,000.

We commend legislators for recognizing, through this bill, that geothermal energy has great, mostly untapped potential to have a beneficial impact on the daily lives of residents and cost of living issues. However, the current limitation to counties with populations under a certain limit could inadvertently restrict Hawai'i's ability to identify valuable geothermal resources that might exist on multiple islands. A broader scope would align with the state's clean energy goals while still maintaining the bill's strong emphasis on these communities. We believe the bill's core strengths are recognizing DBEDT's crucial leadership role together with comprehensive community engagement, and a statewide scope at this exploration phase would offer more thorough evaluation of geothermal potential across all islands. In addition, such undertakings require significant resources to be successful and, accordingly, should include a budget allocation that addresses this need.

Hawai'i needs all viable forms of renewable energy to meet the 100% renewable portfolio standard by 2045. New data underscores the widespread support among residents for this transition. Between October 2023 and January 2024, Ulupono Initiative partnered with Anthology Research to conduct a statewide public opinion survey on energy in Hawai'i involving 1,985 surveys across all four counties. With a margin of error +/- 2.21%, this is arguably the most extensive and comprehensive study on the topic to date. The findings are compelling.



A staggering 91% of respondents expressed their support for the expansion of renewable energy resources throughout the islands. Moreover, the importance of developing Hawai'i's own energy resources was emphasized across all counties by the residents. This resounding endorsement from the community validates the strong support for continued investment and advancement in renewable energy solutions to meet our collective energy goals.

Emphasizing and including strong community engagement is essential for building trust and ensuring that local concerns and priorities are considered throughout the program. Collaboration with counties, individuals, and civic organizations allows for the incorporation of valuable insights, ensuring the program aligns with community needs and aspirations. This commitment to collaboration can foster public support, create opportunities for education about renewable energy and carbon sequestration, and pave the way for sustainable resource management. Effective community engagement has been shown to enhance the success of similar initiatives by promoting transparency and inclusivity.

Lastly, the proposed funding represents a positive first step, but we recommend a larger allocation to ensure the program can fully achieve its potential. A more substantial investment would better position Hawaiʻi to advance its renewable energy and sustainability goals effectively for the benefit of its residents. Robust funding is essential to make certain that the program is adequately supported, enabling Hawaiʻi to advance its renewable energy and sustainability goals effectively for the benefit of its residents.

Thank you for the opportunity to testify.

Respectfully,

Mariah Yoshizu Government Affairs Associate



### TESTIMONY BEFORE THE SENATE COMMITTEE ON WAYS AND MEANS

### SB 1269, SD1 Relating to Geothermal Resources

Tuesday, February 18, 2025 10:01 AM State Capitol, Conference Room 211

Greg Shimokawa
Director of Renewable Acquisition
Hawaiian Electric

Dear Chair Dela Cruz, Vice Chair Moriwaki, and Members of the Committee,

My name is Greg Shimokawa and I am submitting testimony on behalf of Hawaiian Electric in support of SB 1269, SD1 which appropriates funds for the exploration and identification of geothermal resources and commercial viability for utility-scale geothermal production.

Hawaiian Electric supports the exploration of geothermal resources as a means to help accelerate the development of renewable energy projects, achieve the State's Renewable Portfolio Standards requirements, reduce reliance on imported fossil fuels, help stabilize customers' bills, and reduce greenhouse gas emissions.

Hawaiian Electric supports the intent of identifying and developing the State's geothermal resources and renewable energy potential, but defers to policy makers on the appropriateness of funding allocations stipulated in the bill.

Thank you for this opportunity to submit testimony in support of SB 1269, SD1.

## SB1269 SD1 RELATING TO GEOTHERMAL RESOURCES

### SENATE COMMITTEE ON WAYS AND MEANS February 18, 2025 – 10:01 AM

Aloha e Chair Dela Cruz, Vice Moriwaki, and Esteemed Members of the Committee,

My name is Zuri Kaʻapana ʻAki, and I am the founder and Chief Executive Officer of Lepo ʻUla South Kaʻū Rural Enterprise & Innovation Hive, a Hawaiʻi-based and Native Hawaiian-led non-profit organization championing sustainable and responsible rural development to uplift and empower historically underserved and socially disadvantaged communities, while safeguarding and perpetuating Native Hawaiian identity and our inseparable connection to place.

As a resident of Ka'ū with generational roots in this moku (district) reaching deep into time immemorial, I feel compelled to offer this testimony in **STRONG SUPPORT** of SB1269 SD1, which would further the work of the State Department of Business, Economic Development, & Tourism (DBEDT) in its partnership with community-vetted organizations like Waikā Consulting LLC to bring commercially viable geothermal development.

This measure has the potential to usher in an age of meaningful prosperity in these islands, where the oppressive cost of living is mitigated by the absence of having to pay triple the national average in energy rates, which in turn, would facilitate the growth of economic opportunities, thereby slowing the brain drain (forced economic outmigration), and keeping these islands home for those of us who have called it home for generations. Geothermal energy is the future for Hawai'i's growth.

For Ka'ū, responsible geothermal development is a beacon of hope that can level the greater disparities this community has long endured. It presents an opportunity to break cycles of economic hardship, insecurities, and systemic neglect – challenges that have contributed to the erasure of community character and identity. By harnessing a resource as powerful as geothermal, we have a unique and urgent chance to build a self-sustaining energy future that lowers costs, creates lasting economic opportunities, and reinvests directly into the well-being of our 'āina and our people. Deep beneath the surface potential for geothermal is a brilliant pathway for economic resilience, community empowerment,



and the responsible development of our communities – shaped by those who call this place home.

That future, however, must be built with deep respect for the cultural and spiritual significance of geothermal resources, particularly as they relate to Pelehonuamea (and the multitudes of other interconnected kupua, akua, and 'aumakua) and the natural-cultural interests of Native Hawaiians who familial connections to this 'āina.

Geothermal is a controversial natural-cultural resource here in these islands due to its sacred connection to tūtū Pele – geothermal and its associated phenomenon are kinolau (manifestations) of her and her mana (spiritual power). As 'ohana to Pele, I can personally attest to the fierce, fiery, and unwavering devotion with which we protect and cherish her – no less than we would any beloved elder. She is our family. How she is treated matters to us.

In the absence of our ability to freely exercise our own self-determination, Native Hawaiians have had to endure forced change and suffer the external abuses of those things that matter most to our way of life. We haven't had the chance to come together as a community, to engage in meaningful discourse, and to develop the framework for what is and what is not acceptable development. As a result, the community is often divided between the ebb and flow of a hands-on or hands-off approach to natural-cultural resource use. We, Native Hawaiians, still need these opportunities to come together as a people and it would be nothing less than a grave injustice to deprive us of that.

I emphasize the need to treat geothermal with the utmost sensitivity in my support of this measure because Waikā, in its partnership with DBEDT, has spent the better part of a decade engaging communities that will bear the burden of any direct impact from geothermal, and they have painstakingly worked to ensure that responsible development occurs. The foundation for this work has already been laid, and we now eagerly await the construction of the house, for which the model has already been made.

Mahalo nui loa for your time, consideration, and commitment to this vital work. I respectfully ask that this Committee pass SB1269 SD1.

## Testimony of Malama Solomon Ph.D.

### Before the Committee on Way and Means: Tuesday Feb 18, 2025 Room 211



## SB1269 SD1 Relating to Geothermal Resources

Chair Sen. Donovan Dela Cruz, Vice Chair Sen. Sharon Moriwaki, and Members of the Committee on Ways and Means:

Aloha mai kākou,

I am here as your former colleague and member of the Hawaii Senate. I am also here as a Native Hawaiian who has long advocated for the development of our indigenous resources in a manner respectful of our culture to deliver real benefits to all the people of Hawaii. Too many of our people are being driven out of the islands because life here is intolerably expensive.

That is why I am here to put on record my strong support for SB1269 SD1. It is time we moved with urgency to tap the gifts of Tutu Pele to make life better and more affordable for all.

We are blessed with abundant geothermal resources. Governor Green has announced an accelerated deadline for the Neighbor Islands to reach the goal of 100% renewable energy. Geothermal, unlike wind and solar, can be a firm power alternative to fossil fuels. We are currently still addicted to fossil fuels. That addiction costs us billions every year. Over 95% of our energy costs are for imported petroleum. I remember reading a commentary by <a href="Senators Rhoads and Lee">Senators</a> Rhoads and Lee a few years back that cited Hawaii's Climate Commission estimation that there will be over \$19 billion in losses in the years to come because of the destructive impact of fossil fuels on coastal infrastructure.

It does not have to be this way. We have options.

Between 2011 and 2017, Innovations Development Group (IDG) led the way in raising awareness of the vital importance of geothermal energy, equipping both the general public and policy-makers with their cultural knowledge, awareness of community needs, and insights from their experience in New Zealand.

IDG has since set up Waikā Consulting, which has been selected by DBEDT and the HTDC to explore where and how we can tap into our geothermal resources. DBEDT's goal, as you well know, is to spur economic development. Energy is key to economic development. Without affordable energy our people cannot live comfortably and start and grow new businesses. It's that simple. In all my decades of living on Hawaii island and watching geosciences research being conducted, I never saw it done with a view to embarking on commercial development of geothermal energy. That's what makes Waikā's approach different from any other.

That is why IDG's track record of delivering real benefits to the Maori tribes in New Zealand whose geothermal assets they helped develop is so important and valuable to Hawaii. We must make the most of their experience. There is no other Native Hawaiian entity other than IDG, parent company of Waikā, that understands and has the practical knowledge of how to implement a community-centered model of geothermal development.

The people on Hawaii island especially have had to deal for too long with electricity costs that are the highest in the nation. It has been painful for businesses and ordinary ratepayers.

Exploring how and where we can tap into the energy of Tūtū Pele will put us on the road to reducing that pain. This bill SB1269 SD1 can make that happen. It can help meet DBEDT's mission of encouraging economic development. The byproducts of geothermal development will feed small businesses and lower energy costs for all.

Ending our expensive dependence on destructive fossil fuels by actually developing our indigenous geothermal resources as a firm power alternative will go a long way towards lifting up the community. It will put Hawaii on the road to prosperity through energy independence.

Please move SB1269 SD1 forward.

### SB-1269-SD-1

Submitted on: 2/17/2025 8:41:23 AM

Testimony for WAM on 2/18/2025 10:01:00 AM

Submitted By	Organization	<b>Testifier Position</b>	Testify
Roberta Cabral	Testifying for Innovations Development Group (IDG)	Support	Written Testimony Only

### Comments:

Testimony of Robbie Cabral, Founder, Innovations Development Group (IDG)

before the Committee on Ways and Means:

Tuesday Feb 18, 2025 at 10am, Room 211

SB1269 SD1- Relating to Geothermal Resources

Aloha Chair Dela Cruz, Vice Chair Moriwaki, and Members of the Committee on Ways and Means,

Today's hearing is a big leap forward towards realizing our ambition for Hawaii to be on 100% renewable energy by 2045. For the Neighbor Islands, the Governor has just made that goal even more urgent, moving the target date to 2035.

I am here to urge you to pass SB1269 SD1 because what this bill says is that we are finally taking serious action to get off our terrible, costly addiction to fossil fuels.

That addiction has made life intolerably expensive for the people of Hawaii and especially the people of Hawaii island. They should not be paying the highest costs for electricity in the nation. It's tragic, because Hawaii island has the resources to get off fossil fuels-- if we have the will to do so.

It appears we now have the will to move away from fossil fuels.

I am here as the founder of Innovations Development Group or IDG. In 2010 we began the effort to assess whether we indeed had the resources to replace fossil fuels. And the answer is YES, WE DO.

We are all familiar with the power of Tutu Pele. She is so central to Hawaiian tradition and cultural practice. We needed to get community understanding that we were acting respectfully in trying to draw out the gifts of Tutu Pele. Our outreach efforts raised public awareness and

understanding. I believe that we now have a community that understands the appropriateness of respectfully tapping Tutu Pele's gifts to her people.

The public wants and needs what geothermal can give them. With the help of geothermal energy as the firm power baseload, the people of Hawaii island can look forward to lower prices for electricity. Homes, schools, community centers, businesses all need energy to run and thrive. That energy must be affordable. We clearly have market demand. We clearly have need. People would not be fleeing our island homes if they could afford to live here.

IDG saw that market demand and need. We responded to HECO's RFI in 2011 and its RFP in 2013. We provided a roadmap for the development of a power plant. We were shortlisted! But no award was made. That's why this bill more than 10 years later is so welcome.

The need has only become more urgent. That's why IDG formed Waika Consulting. We want to deliver power FOR the people. SB1269 SD1 will help us do that. We were selected to advise DBEDT on geothermal development because we have a proven track record. We have done in New Zealand what this bill will make possible here in Hawaii.

This bill does not just point to exploration for geothermal resources. We already know that geothermal resources exist in abundance on Hawaii island. This bill allows us to refine the exploratory work done so far and move in phases to the building of a 50-100MW power plant. We have developed a roadmap that shows what will happen in each phase. You, as policy-makers will have transparency and measurable outcomes.

We can do this because we have already done it elsewhere. We can do this because our team has access to the best in the business. We already have relationships with top tier experts at the globally recognized University of Auckland Geosciences Department.

As you know from the testimony of others, we went to Aotearoa at the invitation of the Maori Queen to develop the geothermal resources of the Maori Trusts. The model we developed with the guidance of Mililani Trask, who co-authored the United Nations Declaration of the Rights of Indigenous Peoples (UNDRIP), was one that respects Maori culture and ensures that they benefit long term from the prosperity that their geothermal resources create. Our native-to-native model put indigenous people at the table, making decisions about the resource that they own in Aotearoa. We will adapt and replicate that model here. We have seen it work. Geothermal energy is already feeding New Zealand's grid. It can do the same here.

And that will dramatically change everything.

As Native Hawaiians we are deeply committed to ensuring that the community which has been hurting for too long, sees their lives and livelihoods improve, thanks to the goodness of Tutu Pele's gift.

We truly believe we are unique in what we can offer the state. No other entity has the depth of geothermal expertise that our group has in educating the community. We want to put that experience and expertise to work for Hawaii. We can make a really big contribution to

transforming our energy landscape and moving us closer to energy independence. And that is what DBEDT needs to help spur economic development.

Waikā's goal is to deliver power FOR the people. Please move this bill forward.

### SB-1269-SD-1

Submitted on: 2/17/2025 9:32:19 AM

Testimony for WAM on 2/18/2025 10:01:00 AM

<b>Submitted By</b>	Organization	<b>Testifier Position</b>	Testify
Al Hackbarth	Testifying for Innovations Development Group (IDG)	Support	Written Testimony Only

### Comments:

Committee on Ways and Means

Tuesday Feb 18, 2025, Room 211

SB1269 SD1 - Relating to Geothermal Resources

Chair Sen. Donovan Dela Cruz, Vice Chair Sen.Sharon Moriwaki, and Members of the Committee on Ways and Means

Aloha mai kākou,

I, Al Hackbarth, on behalf of Innovations Development Group (IDG), submit this testimony in strong support of SB1269 SD1. IDG is a Hawaii based, native Hawaiian owned renewable energy development corporation created to facilitate the development of renewable energy resources of native people in a manner that is culturally appropriate, environmentally sustainable & clean, socially responsible and economically equitable. Since a 2011 presentation to the Hawaii State Legislative committees on Energy and Land, IDG has been working to promote the responsible development of Geothermal in Hawaii.

### Hawai'i's Energy Crisis and the Need for Indigenous Leadership

Hawai'i remains the most oil-dependent state in the U.S., with high energy costs and reliance on imported fossil fuels. With climate change exacerbating natural disasters, our state faces growing urgency to transition to renewable energy sources. Hawai'i has set ambitious goals to achieve 100% renewable energy by 2045, with a target for neighbor islands to reach 100% by 2035. To achieve energy sovereignty, we must rely on firm, reliable power sources, and geothermal energy offers that solution.

### Geothermal as a Public Trust Resource

Geothermal, like other natural resources in Hawai'i, is governed by the public land trust, established by the Hawai'i Admission Act of 1959. This trust mandates that the State develop

these resources for the betterment of Native Hawaiians and the general public. Given Hawai'i's high electricity costs, prioritizing geothermal development as a public trust resource can provide much-needed relief to residents and businesses while reducing dependence on costly imported fuels.

To fulfill the public trust's obligations to Native Hawaiians, it is crucial to involve Native Hawaiians in the management of geothermal energy, ensuring that energy development aligns with

### Honoring Pele, Protecting Cultural Integrity, and Strengthening Hawai'i's Future

Geothermal energy is a sacred resource in Hawai'i, and its development must be approached with cultural sensitivity and respect for Traditional Ecological Knowledge (TEK). Pele, the goddess of fire and creation, is deeply revered, and any geothermal development must honor her legacy and the Native Hawaiian families who descend from her.

The impact of SB1269 SD1 will go way beyond energy. Thank you for your time and we ask for your consideration to support SB1269 SD1.

Mahalo nui loa,

Al Hackbarth, CEO, IDG

<u>SB-1269-SD-1</u> Submitted on: 2/15/2025 7:04:54 AM

Testimony for WAM on 2/18/2025 10:01:00 AM

Submitted By	Organization	<b>Testifier Position</b>	Testify
Glen Kagamida	Individual	Support	Written Testimony Only

### Comments:

I strongly support further diversifying our energy sources. Mahalo.

### SB-1269-SD-1

Submitted on: 2/15/2025 3:07:55 PM

Testimony for WAM on 2/18/2025 10:01:00 AM

<b>Submitted By</b>	Organization	<b>Testifier Position</b>	Testify
Douglas Perrine	Individual	Support	Written Testimony Only

### Comments:

Geothermal energy has immense potential to provide "firm" clean & renewable electric power to supplement the intermittent energy provided by wind & solar. This is our secret superpower. Recent advances in "Enhanced Geothermal" have vastly increased the availability of usable resources while greatly reducing the cost of tapping them. Geothermal can be produced much more quickly and much lower expense than nuclear, and unlike nuclear, does not produce dangerous waste material that has nowhere to go and threatens health for millenia into the future. Please pass SB1269, and give a thumbs down to any funding for nuclear energy in Hawaii.

<u>SB-1269-SD-1</u> Submitted on: 2/16/2025 6:46:40 PM

Testimony for WAM on 2/18/2025 10:01:00 AM

<b>Submitted By</b>	Organization	<b>Testifier Position</b>	Testify
Ruth Love	Individual	Support	Written Testimony Only

Comments:

We should have been using geothermal for decades already.

Thank you

Mrs Ruth Love

Testimony of Mililani Trask Esq.

Before the Committee on Ways and Means: Tuesday Feb 18, 2025 at 10 am

SB1269, SD1 Relating to Geothermal Resources

Chair Sen. Donovan Dela Cruz, Vice Chair Sen. Sharon Moriwaki, and Members of the Committee on Ways and Means

Aloha mai kākou,

I am here to testify in strong support of SB1269 SD1. I testify as a Pele practitioner, as a lawyer who understands indigenous rights, as a Native Hawaiian who lives on Hawaii island and as an owner of the geothermal resources of our state. In Hawaii, geothermal is a mineral by definition and under our Statehood Act it belongs to Native and native Hawaiians.

I have seen up close how the high cost of energy —the highest in the nation—has stifled economic growth and limited opportunities for the next generation. It's no wonder so many are fleeing our island homes for the continent. They have been priced out of paradise. This bill is a chance to reverse this trend by making life in Hawaii more affordable and secure. We owe it to future generations to responsibly steward the gifts of Tutu Pele. Developing geothermal energy can lift up the community by lowering energy costs and creating opportunities for new businesses and education.

I'm here today to ask you to move SB1269 SD1 forward in the name of economic sustainability.

I am an advisor to Waika Consulting, formed by IDG, in response to the state's initiative to, not just locate geothermal energy, but to TAP IT and DEVELOP it for use by residents and businesses.

Energy fuels the economy. DBEDT exists to further economic development for Hawaii's growth and diversification. Waika was chosen to advise DBEDT because DBEDT recognizes that this is a Hawaii-based, Native Hawaiian company that has already worked with global experts to not just identify the best places to tap geothermal energy: It has actually developed geothermal projects for the Maori Trusts in Aoteoroa.

If we are to reach the new goal of 100% renewable energy by 2035 for the Neighbor Islands, we cannot approach geothermal development as if we are looking for a needle in a haystack! We have to be strategic in how we use the dedicated funds to deliver practical solutions. That means building on what we have already learned about the geothermal resources on Hawaii island to deliver real benefits to people who are hurting.

In 2011, IDG was short-listed for the final award of a 25MW geothermal power plant by HELCO/HECO. But no award was made. If you review the Hu'ena Power/IDG PUC docket, you can assess our capacity. We are comprised of Hawaiians working with others in & outside Hawaii. Our team provided extensive analysis in that PUC docket including a Road Map for geothermal development as the primary source of baseload energy for the state. Our team knows how to deliver community benefits because it has done so in Aotearoa and has been working in Hawaii to explore geothermal development for 15 years.

Our model for developing indigenous resources in a culturally respectful way has its roots in my relationship with the late Maori Queen while working at the United Nations on the Declaration for Indigenous Human Rights. I had the honor of advising the Maori Trusts in New Zealand at the request of their late Queen, Te Arikinui Dame Te Atairangikaahu.

This year marks the 25<sup>th</sup> anniversary of the creation and use of our native-to-native model. It prioritizes long term benefits to the community over limited short-term payouts. Too often outside developers have been free to exploit the indigenous owners of geothermal resources. The Hawaiian and Maori people have many shared cultural values. One critical cultural difference is that geothermal for Hawaiians is sacred to the Goddess Pele. The Native Hawaiian-owned IDG Group got involved with several projects from the planning and consultation stages right through to development. Each project reflected our native-to-native approach: shared profits, low environmental impact, cultural protections and long-term benefits to the host communities.

IDG has kept abreast of the latest developments in both the science AND economics of geothermal development. We bring the same business acumen, legal and scientific expertise and cultural sensitivity that we applied In New Zealand to deliver for the people of Hawaii. We

will support the kind of economic development DBEDT is dedicated to promoting. Waika Consulting, under the umbrella of the IDG Group, has already identified leading global experts in the field of geothermal energy. Far from doing research just for the sake of research, SB1269 SD1 will allow for the commercial development of geothermal. That includes supporting community-centered projects that are socially responsible, environmentally sustainable, culturally appropriate and economically feasible.

As a Pele practitioner, I truly believe tapping the gifts of Tūtū Pele for the benefit of the people is an act of homage to her abundant generosity. The people of Hawaii island—and eventually all of Hawaii-- will benefit. Our indigenous geothermal resources, which are owned by Indigenous Hawaiians and the public, can and should be a firm power alternative to destructive fossil fuels that have cost us too much already. And they threaten to cost us billions more in damage to our coastal infrastructure. We have a firm power alternative right here in our back yard. Let's tap it.

For the sake of economic growth and opportunities for future generations, please move SB1269 SD1 forward.

Mahalo.



Testimony of Ryan Matsumoto on behalf of Waika Consulting Before the Committee on Ways and Means Tuesday Feb 18, 2025 Room 211

SB 1269, SD1: Relating to Geothermal Resources

Chair Sen. Donovan Dela Cruz, Vice Chair Sen. Sharon Moriwaki, and Members of the Committee on Ways and Means,

Waikā Consulting, LLC submits this testimony in strong support of SB1269, SD1, a vital measure to advance Hawai'i's energy independence through responsible and equitable geothermal energy development. As a Native Hawaiian-owned company, Waikā has advocated for a Native-to-Native model for over two decades, ensuring Indigenous leadership in resource management. Our commitment is to ensure geothermal energy benefits Native Hawaiians, uplifts local communities, and contributes to a sustainable, self-reliant future for Hawai'i.

Despite geothermal being a major renewable resource in Hawai'i, its development has historically excluded Native Hawaiians from leadership roles and economic benefits. Waikā advocates for a future where Native Hawaiians are not just stakeholders but decision-makers and beneficiaries in geothermal energy development.

Waikā brings a proven model for responsible geothermal development, grounded in Native leadership:

- Native-to-Native Partnership Success: We have partnered with Māori communities in Aotearoa (New Zealand) to successfully develop sustainable energy, creating economic growth and community benefits.
- Building Capacity in Hawai'i Since 2011: Waikā has engaged Native Hawaiians to ensure they are at the forefront of industry development.
- Comprehensive Multi-Site Approach: Waikā is advancing geothermal development across multiple sites on the Island of Hawai'i, aiming to lower energy costs, provide clean energy at scale, and create economic opportunities.
- Alignment with State Priorities: Our vision supports the State of Hawai'i's Comprehensive Economic Development Strategy (CEDS), ensuring Indigenous resource management plays a central role in economic resilience.



Waikā has spent over a decade engaging with impacted communities to ensure that Native Hawaiians lead in the responsible development of this sacred resource. Our approach is rooted in cultural integrity, environmental responsibility, and economic equity – ensuring that Hawai'i's energy transition strengthens our resilience, honors our kūpuna, and builds a sustainable future for all.

This measure's impact extends far beyond energy; it touches every aspect of our economy, culture, and self-sufficiency. By supporting SB1269, you are ensuring that Hawai'i's clean energy transition is led by Native Hawaiian agency, not at its expense.

Mahalo nui loa for your time and consideration. We respectfully urge your strong support for this measure.

Sincerely,

Ryan Matsumoto
President, Waika Consulting

### Testimony of Kumu Karl Veto Baker

Before the Committee on Ways and Means

Tuesday Feb 18, 2025, 10 am Room 211

SB1269 SD1
Relating to Geothermal Resources

Chair Sen. Donovan Dela Cruz, Vice Chair Sen. Sharon Moriwaki, and Members of the Committee on Ways and Means:

Aloha mai kākou,

My name is Karl Veto Baker and I am a Native Hawaiian cultural practitioner and Kumu Hula for Halau I Ka Wēkiu, who holds the utmost respect and reverence for the natural world around us as inseparable strands woven into the fabric of my identity. I provide this testimony in support of SB1269 SD1, which furthers the existing foundation already laid for a responsible approach toward natural-cultural resource development – geothermal – in the Hawaiian Islands that elevate and are guided by the voices of culturally rooted Native Hawaiians and Native Hawaiian communities.

Kīlauea is both wahi pana (storied place) and wahi kapu (sacred place), holding immeasurable significance to the Native Hawaiian people as the home of Pele – our revered akua and kupuna of fire and creation. In the cosmogonic genealogies of countless Native Hawaiians, Pele is the very force through which these islands were brought into being, without whom they would not exist.

Pele and her volcanic domain stand as a powerful testament to the inseparable bond between our natural and cultural resources. Each natural resource and phenomenon is a kinolau (embodiment/form) of a sacred spiritual being, deeply revered in our traditions. Through these practices, we have cultivated relationships – many familial – in which we honor and live in harmony with the natural world, enriching our vast treasury of traditional ecological knowledge and cultural wisdom.

Geothermal development, by its very nature, calls upon the powerful forces of Pele and her volcanic domain. To harness the energy beneath the earth is to invoke her sacred power, a force that is inextricably linked to the land and its people. Pele's mana, her essence, flows through the very foundation of these islands. However, such an act of

tapping into her power would be a violation, an abuse, if carried out without the leadership of her living descendants today. The responsibility to care for and honor Pele, as well as to protect the natural forces that govern our islands, belongs to the Native Hawaiians – those whose connection to Pele is both ancestral and spiritual. This deep-rooted kinship with the land and the elements carries with it an irreplaceable authority, one that must guide any action taken in Pele's name.

Geothermal energy development, therefore, requires not just the participation of Native Hawaiians but must be led and controlled by them. The sacred stewardship of Pele's domain is embedded in the very fabric of Native Hawaiian identity, passed down through generations, and is vital for ensuring that this energy source is developed with respect, cultural integrity, and sustainability. Native Hawaiians are the living descendants of Pele, and it is through their leadership that we can ensure that geothermal energy is not exploited but nurtured in harmony with our traditions and values. The authority to make decisions, guide practices, and safeguard the sacredness of these resources lies with the people who have the deepest, most intimate understanding of the land. Any development must be directed by Native Hawaiians to preserve both our cultural legacy and our future, ensuring that the benefits of geothermal energy are shared equitably and respectfully with all.

Mai hahaki 'oe i ka 'ōhelo o punia i ka ua noe (do not pluck the 'ōhelo berries lest we be surrounded by rain and fog). Literally, the 'ōlelo no'eau (adage) is a warning of plucking 'ōhelo berries on the way to Kīlauea. Figuratively, the adage serves as a lesson that in these islands, there are long-established protocols – traditions of doing things the right way. As a Native Hawaiian cultural practitioner, I am constantly reminded by this 'ōlelo no'eau that the time-earned wisdom of the people of these islands and the respect they held for the natural world around them forms the core of Native Hawaiian identity – an identity that endures and lives on.

Mahalo nui loa for your time and attention to this matter, and I respectfully urge you to support SB1269 SD1.

James E. Hustace Council Member District 9 North & South Kohala



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### HAWAI'I COUNTY COUNCIL

25 Aupuni Street | Hilo, Hawai'i 96720

February 17, 2025

Testimony of James E. Hustace Council Member, Hawai'i County Council

Before the Senate Committee on Ways and Means

On SB 1269 SD1, Relating to Geothermal Resources

Tuesday February 18, 2025, 10am Room 211

Chair Senator Donovan Dela Cruz, Vice Chair Senator Sharon Moriwaki, and Members of the Committee on Ways and Means:

Aloha Chair, Vice Chair, and esteemed members of the Committee,

Thank you for the opportunity to provide testimony in strong SUPPORT of SB 1269. My testimony is submitted in my individual capacity as Council Member of the Hawai'i County Council.

I am writing to express my strong support for the measure to allocate funding to the Department of Business, Economic Development, & Tourism (DBEDT) for continued exploration and identification of geothermal resources in counties with populations of less than 300,000. Geothermal energy has immense potential to provide us with clean, renewable power, and we must invest in its development to create a more sustainable future for our state.

DBEDT is the ideal agency to lead this effort. Through its work with the Hawai'i Technology Development Authority (HTDC), DBEDT has already shown a clear commitment to geothermal exploration and has laid the groundwork for building a viable, commercially sustainable geothermal industry here in Hawai'i. By continuing to fund DBEDT's efforts, we ensure that progress can continue and that we can move from research to actual, practical energy solutions.

Hawai'i has already spent significant time and resources researching geothermal, but without a clear path to development, these efforts will not lead to the tangible benefits we need. This measure will help us move beyond studies and into actual geothermal production, allowing us to harness a critical local resource that can reduce our dependence on imported fuels and bring jobs and energy security to our communities.

Geothermal energy, however, is a sensitive issue for many Native Hawaiians who hold Pele, the goddess of fire and volcanoes, in deep reverence. The land and the resources beneath it are sacred, and we must

approach geothermal development with the utmost cultural sensitivity and respect for the traditions and beliefs of our people. It is essential that we ensure any geothermal projects are done in a way that honors the land, respects Hawaiian culture, and prioritizes the involvement of Native Hawaiian communities at every step of the process.

A key partner in this effort is Waikā Consulting LLC, a Native Hawaiian-owned business that has been instrumental in engaging with local communities and ensuring that geothermal development respects cultural values. Waikā's experience in developing Native-to-Native models for energy development in New Zealand offers a valuable framework that can be adapted to Hawai'i. By leading with Native Hawaiian knowledge and values, we can ensure that any geothermal development benefits the community and our future generations, while being done responsibly and sustainably.

This measure is an important step in moving Hawai'i toward a clean, sustainable energy future. I urge you to support this funding, as it will help us unlock the full potential of our geothermal resources and create long-lasting, positive impacts for our people and our environment.

Thank you for your time and consideration.

Mahalo nui,

James E. Hustace Hawai'i County Council Member District 9 (North & South Kohala)



### SB-1269-SD-1

Submitted on: 2/17/2025 10:18:38 AM

Testimony for WAM on 2/18/2025 10:01:00 AM

Submitted By	Organization	<b>Testifier Position</b>	Testify
Keith Neal	Individual	Support	Written Testimony Only

### Comments:

Dear Chair Dela Cruz, Vice Chair Moriwaki and members of the Committee,

Support SB1269\_SD1

The Geothermal resource is available, on all Hawaii islands. However, we don't have the necessary subsurface geological data to develop the geothermal resource. We must get the data!

This bill is critical to the work needed to develop our abundant, local, clean energy resource.

Furthermore, I recommend that the bill be amended to specify that the Hawaii Groundwater and Geothermal Resource Center (HGGRC) at the University of Hawaii, Manoa be identified as the organization performing the Slim-Hole subsurface characterization. We have expertise within the University of Hawaii, at Manoa. I strongly urge the legislature appropriate funds to research entities with proven scientific and commercial expertise in Hawaii.

Respectfully submitted,

Keith Neal

Waimea

## Testimony of Gavin Murphy

### before the Committee on Ways and Means



Tuesday Feb 18, 2025, 10am

## SB1269 SD1 Relating to Geothermal Resources

Chair Sen. Donovan Dela Cruz, Vice Chair Sen. Sharon Moriwaki, and Members of the Committee on Ways and Means,

Thank you for this opportunity to testify today. I cannot overstate my strong support for the bill that is before this committee: SB1269 SD1. This bill speaks to the state's determination to find real solutions to the problem of exorbitant energy prices that are an economic and social challenge for Hawaii. Nowhere is that problem more severe than on Hawaii island. Both your Governor Josh Green's new goal for attaining 100% renewable energy on the Neighbor Islands — by 2035—and this bill reflect the urgency of the search for a firm, reliable, and cost-effective baseload power source. That will allow you to deliver lower cost electricity to your constituents. You can also look to the creation of hydrogen for heavy transport fuels.

I have reviewed the detailed submissions on geothermal from various parties seeking funding from the legislature. DHHL is focused on two sites previously identified by the Waika-led work on behalf of DHHL. If the current UH \$5m geophysics research is successful they propose slim hole drilling. At that point presumably DHHL remains the developer going forward? Has that question been answered? This will require significant developer and investor negotiation capability and capacity. The Hawaii State Energy Office (HSEO) proposes drilling at multiple sites on each island for \$16 mill versus DHHL's proposed \$20 million for just two sites on Hawaii island.

The cost for a couple of sites for slim hole wells at \$20m seems high. There is also no mention of how the geophysical work and slim hole drilling will lead to a conceptual reservoir model for

commercial development. This is something investors will expect. On the other it is not at all clear what geophysical evidence HSEO has for choosing and prioritizing where it will drill.

The need for an endgame—commercial development with its ancillary benefits including all of the components that come with that, such as grid connection, long term land owner/access development agreements, economic modelling aid investor/finance structures, energy sales plans and multi hundred million dollar plant and equipment procurement plans --is something clearly planned for by Waika Consulting. Waika is the company advising DBEDT to undertake the work of exploring geothermal to foster economic development. For good reason. Waika has the experience that no other entity has to help Hawaii achieve its goals.

I know because I have had the pleasure of working closely with Waika's parent company, Innovations Development Group (IDG) to develop the geothermal assets of the Maori Trusts in as CEO of the Trust Tairawhiti, 100% owner of the Eastland Group and its General Manager of Business Development and Investment, We partnered with IDG to deliver real community benefits to the Maori people, after the invitation of their Queen. I saw for myself how they implemented a model for tapping the geothermal resources underneath land owned by local Maori landowners in ways that benefitted the community while contributing firm, costeffective, renewable energy to the national electricity grid. One plant is already operational and another is poised to go online soon.

New Zealand has over 50 years of experience developing geothermal. Geothermal does not depend on the sun shining, wind blowing or rain falling. The average emissions intensity of geothermal electricity is about one-quarter that of the cleanest natural gas-fueled power station. And New Zealand power station developers are deploying emerging technologies to capture greenhouse gases and enable their full sequestration.

With availability in the 95-98% range it is a genuine alternative as a 24/7, 365 days per year, firm, cost effective base load power. New Zealand has over 1,000MW of geothermal, with over 300MW more under development.

I saw for myself how IDG's model for development integrated cultural values into the plans for developing a geothermal plant from the ground up. We are proud of what we accomplished, working with 'mana whenua' -people of the land- respecting their culture, providing roles and project outcomes for their benefit, ensuring the health and safety of all, managing multiple contractors without harm to the community or to visitors while creating an economically viable power station supplying the grid.

We are delighted to be once again working with the IDG/Waika team to bring a similar model of development to Hawaii. I cannot emphasize enough how important it is to have a plan with parallel tracks for geoscience exploration and commercial development. The end goal is a power plant that can produce 50-100 MW of power. Waika has provided just such a roadmap to DBEDT. A commercial development roadmap with defined benchmarks and timelines gives you, the legislators, insight into the process and reduces risk as much as possible before drilling. It also builds investor confidence.

Our team includes global experts. We are partnering with the world-class institution, University of Auckland's Geoscience Department Professors who are industry experts, known for its leadership in this field. Being able to draw on their practical experience in a mature geothermal market makes Waika's plans uniquely valuable to policymakers like yourself. You will see what you are getting for your investment at designated steps in the journey of exploration leading to building a power plant. That has not been done to date in Hawaii. Our track record is proof that we will deliver as promised.

SB1269 SD1 is vital to ending Hawaii's unhealthy and super expensive dependence on imported fossil fuels. This bill can empower a Native Hawaiian company like Waika to deliver the practical solutions both DBEDT and policy-makers like you seek to spur economic development and make life more affordable for the people of Hawaii. I urge you to pass SB1269 SD1. Mahalo.

## Testimony of (Kumu) Cy Bridges



### Before the Senate Committee on Ways and Means February 18, 2025

## SB1269 SD1 Relating to Geothermal Resources

Chair Sen. Donovan Dela Cruz, Vice Chair Sen. Sharon Moriwaki, and Members of the Committee on Ways and Means,

'O wau 'o Cy Bridges, and I submit this testimony as a Native Hawaiian cultural practitioner, a and kupuna of our Lāhui Hawai'i. I write in strong support of SB1269 SD1, which seeks to appropriate funding to the Department of Business, Economic Development, and Tourism (DBEDT) for further exploration of geothermal energy through a pono approach that acknowledges and uplifts our 'ōiwi 'ike, mo'omeheu, and kuleana to our 'āina.

For generations, our people have revered Pelehonuamea, she who shapes and reshapes our lands with her mana. She is 'ohana – she is a living force, a kūpuna, a kumu, an elemental presence that commands our deepest aloha and respect. Geothermal energy, if approached without true 'ike and kuleana, can be a desecration. Yet, when guided by Native Hawaiian hands, minds, and hearts, it has the potential to align with our values of mālama 'āina and pono economic development.

The impact of this measure goes far beyond geothermal development alone – it reaches across time and space, connecting ka wā ma mua (the time before) with the ka wā ma hope (the time after), weaving the lehu lehu a mano mano, the great many and numerous who have already passed, with those here now, and those who have yet to be born.

I share my mana'o knowing that the foundation we lay here and the policies embedded therein, will fortify the ground upon which our future will be built. I hope we build one that is strong and faultless.

My people, the Native Hawaiian people, are the original stewards of this 'āina, and we should stand at the forefront of decisions that impact our sacred places, our natural-cultural resources, and our relationship with Pele. Waikā, the Native Hawaiian-led organization that has been selected to advise DBEDT on geothermal matters are demonstrating a commitment to this kuleana, working tirelessly to engage our communities, to listen, and to develop a model that integrates cultural respect, environmental responsibility, and energy independence.

The plight of the Native Hawaiian people is the absence of self-determination. This measure provides an opportunity to shift that narrative – to empower Native Hawaiians to lead, to ensure that any geothermal development occurs with the highest level of stewardship, and to affirm that our people must always have a decisive voice in matters concerning our sacred resources.

As a kupuna, I have witnessed the struggles of our lāhui, but I have also seen our resilience. We do not reject progress; we demand that it be done in a way that is pono, in a way that respects our past, safeguards our present, and ensures a future where our keiki and moʻopuna can stand strong upon the foundation of their ancestors. SB1269 SD1 is a step in that direction, and I urge you to support it.

Me ka ha'aha'a a me ke aloha.



### SB-1269-SD-1

Submitted on: 2/17/2025 2:47:02 PM

Testimony for WAM on 2/18/2025 10:01:00 AM

Submitted By	Organization	<b>Testifier Position</b>	Testify
Dawn Morais Webster Ph.D.	Individual	Support	Written Testimony Only

### Comments:

It is encouraging to see that SB1269 is now before WAM for decision-making. It demonstrates that the state is serious and focused about reaching its goal of 100% renewable energy for all of Hawai'i by 2045, and a decade earlier--2035--for the Neighbor Islands. As the energy crisis continues to escalate and the push for renewables becomes more urgent, there is talk of other stopgap measures, like LNG as a "bridge" fuel. We understand that the benefits being touted for LNG are tempting, but we cannot afford to take our eyes off the ball of replacing fossil fuels not just for the short term but for the future. Your support for SB1269 will move us closer to developing an indigenous resource that can replace ruinously expensive imported fossil fuels as the firm power base load. Developing our geothermal resources will serve future generations very well and will go further to lift up the community and make life more affordable than any short-term stopgap measure. There is no time to waste. We count on your determined support of SB1269. Mahalo