



STATE OF HAWAII | KA MOKU'ĀINA 'O HAWAI'I  
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DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS  
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DEAN I HAZAMA  
DEPUTY DIRECTOR | KA HOPE LUNA HO'OKELE

## Testimony of the Department of Commerce and Consumer Affairs

Before the  
House Committee on Consumer Protection & Commerce  
Tuesday, April 1, 2025  
2:00 p.m.  
Conference Room 329

On the following measure:  
**H.C.R. 58, H.D. 1 / H.R. 54, H.D. 1, REQUESTING THE HAWAII STATE ENERGY OFFICE TO CONVENE A GEOTHERMAL ENERGY WORKING GROUP TO EVALUATE THE REGULATORY AND POLICY LANDSCAPE SURROUNDING GEOTHERMAL ENERGY IN HAWAII**

Chair Matayoshi and Members of the Committee:

My name is Michael Angelo, and I am the Executive Director of the Department of Commerce and Consumer Affairs (Department) Division of Consumer Advocacy. The Department supports this resolution.

The purpose of this resolution is to request that the Hawaii State Energy Office (HSEO) convene a Geothermal Energy Working Group (Working Group) to evaluate the regulatory and policy landscape surrounding geothermal energy in Hawaii. In addition, the Working Group is requested to: (1) identify key regulatory, policy, and permitting challenges affecting geothermal energy in Hawaii; (2) review best practices from other jurisdictions with successful geothermal energy programs and consider best practices of Pacific island countries such as New Zealand; (3) assess the potential for geothermal expansion and its role in supporting energy resilience and affordability; and (4) provide

recommendations to the Legislature and Governor on policy and regulatory reforms necessary establish a clear and efficient pathway for geothermal energy in Hawaii. Furthermore, HSEO is requested to submit a report of its findings and recommendations, including any proposed legislation, to the Legislature no later than 20 days prior to the convening of the Regular Session of 2027.

The Department appreciates the resolution's intent to advance the State's commitment of achieving 100% renewable energy portfolio standards by 2045 and the recognition that work towards this commitment needs to be accelerated. As stated in the resolution, the Department also views geothermal energy as a form of firm renewable energy resource that can help provide grid stability. The Department also agrees that the development of geothermal energy in the State would be assisted by reviewing and investigating, among other things, methods and processes to establish efficient pathways to advance geothermal energy in the State. Furthermore, the Department appreciates the adoption the Department's recommendation by the Committee on Energy & Environmental Protection to be included as a member of the Working Group, since the Department's Division of Consumer Advocacy is statutorily mandated to represent, protect, and advance the interests of all consumers of utility services. The Department looks forward to working with the members of the Working Group and other invited stakeholders to help advance the progress and development of geothermal energy in the State.

Thank you for the opportunity to testify on this resolution.

JOSH GREEN, M.D.  
GOVERNOR

SYLVIA LUKE  
LT. GOVERNOR



STATE OF HAWAII  
PUBLIC UTILITIES COMMISSION  
465 S. KING STREET, #103  
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## Testimony of the Public Utilities Commission

To the  
House Committee on  
Consumer Protection and Commerce

April 1, 2025  
2:00 p.m.

Chair Matayoshi, Vice Chair Chun, and Members of the Committee:

**Measure:** HCR 58 H.D. 1 / HR 54 H.D. 1  
**Title:** REQUESTING THE HAWAII STATE ENERGY OFFICE TO CONVENE A GEOTHERMAL ENERGY WORKING GROUP TO EVALUATE THE REGULATORY AND POLICY LANDSCAPE SURROUNDING GEOTHERMAL ENERGY IN HAWAII.

### Position:

The Public Utilities Commission ("Commission") supports this resolution and offers the following comments for consideration.

### Comments:

The Commission supports the intent of this measure to form a working group that would evaluate the regulatory and policy landscape surrounding geothermal energy in Hawaii.

The Commission recognizes the potential of geothermal energy to support the state's goal of achieving 100% renewable energy by 2045, as well as the importance of considering such potential in a transparent and coordinated manner. The Commission appreciates this resolution's inclusion of Commission staff in its proposed working group and stands ready to participate.

Thank you for the opportunity to testify on this resolution.



# HAWAII STATE ENERGY OFFICE STATE OF HAWAII

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GOVERNOR

SYLVIA LUKE  
LT. GOVERNOR

MARK B. GLICK  
CHIEF ENERGY OFFICER

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**LATE**

Testimony of  
**MARK B. GLICK, Chief Energy Officer**

before the  
**HOUSE COMMITTEE ON CONSUMER PROTECTION & COMMERCE**

Tuesday, April 1, 2025  
2:00 PM  
State Capitol, Conference Room 329 and Videoconference

In Support of  
**HR 54, HD1**

## **REQUESTING THE HAWAII STATE ENERGY OFFICE TO CONVENE A GEOTHERMAL ENERGY WORKING GROUP TO EVALUATE THE REGULATORY AND POLICY LANDSCAPE SURROUNDING GEOTHERMAL ENERGY IN HAWAII.**

Chair Matayoshi, Vice Chair Chun, and Members of the Committee, the Hawai'i State Energy Office (HSEO) supports HR 54, HD1, which requests HSEO to convene a geothermal energy working group to evaluate the regulatory and policy landscape surrounding geothermal energy in Hawai'i.

The state's energy transition to 100% RPS by 2045 will require the full diversity of available renewable resource options, despite much of the focus being on affordable and abundant intermittent solar and wind resources. Geothermal is a firm and dispatchable abundant renewable energy resource that has enormous potential as an affordable means of energy security and reliability and serve as to have a transformative effect on Hawai'i's energy ecosystem.

Potential roadblocks to advancing geothermal energy development include 1) a lack of data on the geothermal and groundwater resources (resource potential) that exist, as well as uncertainty regarding the regulatory conditions for the permitting and construction of a new geothermal energy production plant. Relating to the understanding of resource potential, in 2024, Governor Josh Green, M.D., allocated \$5 million from the Coronavirus State Fiscal Recovery Fund for slim-hole geothermal

resource characterization to identify possible locations for viable geothermal energy deployment. HSEO is working with the University of Hawai'i's Groundwater and Geothermal Resource Center (HGGRC) to conduct this resource assessment, building on their research and the existing body of knowledge. However, more funding is needed to determine the resource potential statewide. Relating to the uncertain regulatory conditions, a review of policy and regulations leading to actionable recommendations could make the barrier to geothermal energy production more attainable.

HSEO recognizes that, as stated in the resolution, "a coordinated, transparent, and community-inclusive process is essential to evaluating the role of geothermal energy in Hawai'i". Accordingly, HSEO notes that the members listed in the current working group may not adequately represent the Native Hawaiian community. However, HSEO is committed to ensuring that appropriate community organizations are invited to join the working group, as permitted by this resolution.

HSEO emphasizes that a key priority of the State, and a foundation of the working group, should be guided by the understanding of the underlying geothermal resource potential. HSEO appreciates the Committee on Energy & Environmental Protections' amendments to extend the deadline for the report.

This working group could allow HSEO and other stakeholders the ability to find viable solutions for allowing the potential of geothermal energy production to become a larger reality as we move towards our clean energy goals.

Thank you for the opportunity to testify.



Email: [communications@ulupono.com](mailto:communications@ulupono.com)

HOUSE COMMITTEE ON CONSUMER PROTECTION AND COMMERCE

Tuesday, April 1, 2025 — 2:00 p.m.

**Ulupono Initiative supports HR 54, HD 1/HCR 58, HD 1, Requesting the Hawaii State Energy Office (HSEO) to Convene a Geothermal Energy Working Group to Evaluate the Regulatory and Policy Landscape Surrounding Geothermal Energy in Hawaii.**

Dear Chair Matayoshi and Members of the Committee:

My name is Micah Munekata, and I am the Director of Government Affairs 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 supports HR 54, HD 1/ HCR 58, HD 1**, which requests that the HSEO convene a working group to evaluate the regulatory and policy landscape surrounding geothermal energy in Hawaii.

Hawaii 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 Hawaii 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 Hawaii'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.

In order to ensure a transparent and responsible state approach, this resolution seeks to convene a working group of energy experts across the public and private sector to pave the way forward for future geothermal energy development throughout the State. Having a coordinated effort across all agencies and stakeholders will be key to the success of any geothermal program. We hope that this working group can allow for all those involved to be aligned and well-equipped with pertinent information and direction.

Thank you for the opportunity to testify.

Respectfully,

Micah Munekata  
Director of Government Affairs

*Investing in a Sustainable Hawai'i*



**HOUSE COMMITTEE ON CONSUMER PROTECTION AND COMMERCE**

**APRIL 1, 2025**

**HCR 58/HR 54, HD1, REQUESTING THE HAWAII STATE ENERGY OFFICE TO CONVENE A GEOTHERMAL ENERGY WORKING GROUP TO EVALUATE THE REGULATORY AND POLICY LANDSCAPE SURROUNDING GEOTHERMAL ENERGY IN HAWAII**

**POSITION: SUPPORT**

Coalition Earth supports HCR 58/HR 54, HD1, which requests the Hawaii State Energy Office to convene a geothermal energy working group to evaluate the regulation and policy landscape surrounding geothermal energy in Hawaii.

According to a report produced by the Hawaii Climate Change Mitigation and Adaptation Commission, global sea levels could rise more than three feet by 2100, with more recent projections showing this occurring as early as 2060. In turn, over the next 30 to 70 years, approximately 6,500 structures and 19,800 people statewide will be exposed to chronic flooding. Additionally, an estimated \$19 billion in economic loss would result from chronic flooding of land and structures located in exposure areas. Finally, approximately 38 miles of coastal roads and 550 cultural sites would be chronically flooded, on top of the 13 miles of beaches that have already been lost on Kaua'i, O'ahu, and Maui to erosion fronting shoreline armoring.

As we work to reduce carbon emissions and stave off the worst consequences of climate change, we must begin preparing for the adverse impact of sea level rise on our shores. We are now quantifying the speed at which we must act. We cannot continue to develop the 25,800-acre statewide sea level rise exposure area—one-third of which is designated for urban use—without risking massive structural damage and, potentially, great loss of life.

Just two years ago, we witnessed the impact of the climate emergency on our shores. On August 8, 2023, wildfires swept across Maui and killed at least 100 people, making it one of the nation's deadliest natural disasters. The spread of the fires has been attributed to climate change conditions, such as unusually dry landscapes and the confluence of a strong high-pressure system

to the north and Hurricane Dora to the south. The wildfires destroyed over 2,200 structures, including numerous residential buildings, historic landmarks, and school facilities. In September 2023, a report from the United States Department of Commerce estimated the total economic damage of the wildfires to be roughly \$5.5 billion. Investing in renewable energy generation could not be more urgent, given the growing threat of climate catastrophes to our island home.

Therefore, **our state should take steps to hasten our transition to a clean energy economy and continue our fight against climate change, including by investing in the potential of geothermal resources, a nearly unlimited source of renewable energy.** The Earth's inner core is as hot as the surface of the sun. As that heat radiates, it heats the rocks and water just beneath the Earth's surface and the steam that process generates can be used to generate heat and electricity. Harnessing geothermal energy can be accomplished at any time, since geothermal resources are reliably available 24 hours a day, 365 days a year.

The United States leads the world in geothermal electricity capacity and generation. Yet, the U.S. has tapped less than 0.6 percent of its available geothermal electricity resources. The National Renewable Energy Laboratory estimates that there is enough geothermal potential under our nation's grounds to constantly produce 4,248,879 megawatts of energy. Notably, geothermal energy presents an opening for an almost seamless transition of investment, technology, and personnel away from fossil fuels. While the needed capital investment for geothermal ranges from \$3,000 to \$6,000 per kilowatt—as compared to solar and terrestrial wind, which run just \$1,700 to \$2,100 per kilowatt—this cost is declining as investments in new technology are being made. In terms of both economic and clean energy generation, we cannot afford to miss out on these opportunities.

Our state needs to establish a framework for expanding geothermal exploration and the development of utility-scale geothermal initiatives, goals that can be further accelerated through partnerships with research institutions like the University of Hawai'i's Groundwater and Geothermal Resources Center. Doing so would stimulate further possibilities for aligning public funding and private sector investment for geothermal power generation. Geothermal energy was also identified as both a near-term and mid-term decarbonization pathway in the Hawai'i State Energy Office's *Hawai'i Pathways to Decarbonization Report*, released in 2024.

We must avoid environmental risks when exploring geothermal energy. Relatedly, we should not engage in any geothermal expansion on Hawaiian homelands without beneficiary support. Yet, we would be remiss not to investigate the significant geothermal potential that resides, quite literally, within our island home. As the World Resources Institute has stated, "Next-generation geothermal as a promising path to a zero-carbon power grid. It's a clean, cost-effective way to fill supply gaps when solar and wind aren't available." In that way, geothermal has the capacity to play a major role in strengthening energy resilience for our state.

*Coalition Earth is a nongovernmental organization that works to preserve the well-being of people and our planet. We champion policies that advance climate resilience, clean energy, public health, and economic fairness for working families. **Contact us at [info@coalitionearth.org](mailto:info@coalitionearth.org).***



Testimony of Ryan Matsumoto on behalf of Waikā Consulting

HCR58 HD1: REQUESTING THE HAWAII STATE ENERGY OFFICE TO CONVENE A GEOTHERMAL ENERGY WORKING GROUP TO EVALUATE THE REGULATORY AND POLICY LANDSCAPE SURROUNDING GEOTHERMAL ENERGY IN HAWAII.

Tuesday, April 01, 2025 Conference Room 329

HCR58 HD1: Geothermal Energy; Working Group; Hawai'i State Energy Office.

Waikā Consulting, LLC submits this testimony in support of HCR58 HD1 but we feel that additional geothermal industry experts should be included on the working group. These independent industry experts will be able to provide additional commercial input in addition to sustainable industry practice in regard to managing the resource, selecting the appropriate power plant technology for to match the resource. Waikā also believes that an independent regulator from an experienced US based State with expertise in assessing commercial geothermal development consents/permits from an environmental/community and sustainable policy and regulatory perspective should be included on the working group as well.

Sincerely,

A handwritten signature in black ink, appearing to read "Ryan Matsumoto".

Ryan Matsumoto  
President, Waikā Consulting

Comments before  
**April 1, 2025 House Committee on  
 Consumer Protection and Commerce**

**OPPOSING**  
**House Concurrent Resolution 58 and**  
**House Resolution 54**  
 Relating to Geothermal Expansion

**Mike Ewall, Esq.**  
**Founder & Executive Director**  
**Energy Justice Network**  
 215-436-9511  
 mike@energyjustice.net  
 www.EnergyJustice.net

Aloha Honorable Committee members. Energy Justice Network is a national organization supporting grassroots groups working to transition their communities from polluting and harmful energy and waste management practices to clean energy and zero waste solutions. In Hawai'i, we've been working with residents who first sought our support in 2015. Since mid-2022, we have supported residents in forming the Hawai'i Clean Power Task Force and Kokua na Aina to address numerous energy and waste issues in the state.

**Please oppose HCR 58 and HR 54.**

Geothermal has consistently ranked among the most expensive forms of electric power production, right up there with trash and tree burning and nuclear power. This is based on the latest data from the U.S. Energy Information Administration.<sup>1</sup> Capital cost and fixed operations and maintenance costs (O&M) are among the most expensive options – far more expensive than using solar with storage to meet firm energy needs.

Case No.	Technology	Description	Net Nominal Capacity (kW)	Net Nominal Heat Rate (Btu/kWh)	Capital Cost (\$/kW)	Fixed O&M Cost (\$/kW-year)	Variable O&M Cost (\$/MWh)	Nitrogen Oxide (NO <sub>x</sub> ) (lb/MMBtu)	Sulfur Dioxide (SO <sub>2</sub> ) (lb/MMBtu)	Carbon Dioxide (CO <sub>2</sub> ) (lb/MMBtu)
1	USC Coal without Carbon Capture – Greenfield	1 x 735 MW Gross	650	8,638	\$4,103	\$61.60	\$6.40	0.06	0.09	206
2	USC Coal 95% Carbon Capture	1 x 819 MW Gross	650	12,293	\$7,346	\$86.70	\$13.73	0.06	0.09	10.3
3	Aeroderivative CTs – Simple Cycle	4 x 54 MW Gross	211	9,447	\$1,606	\$9.56	\$5.70	0.0075	0.00	117
4	CTs – Simple Cycle	1 x H-Class	419	9,142	\$836	\$6.87	\$1.24/MWh, \$23,100/Start	0.0075	0.00	117
5	CC 2x2x1	2 x 1 H Class	1,227	6,266	\$868	\$12.12	\$3.41	0.0075	0.00	117
6	CC 1x1x1, Single Shaft	1 x 1 H Class SS	627	6,226	\$921	\$15.51	\$3.33	0.0075	0.00	117
7	CC 1x1x1, Single Shaft, with 95% Carbon Capture	1 x 1 H Class SS	543	7,239	\$2,365	\$24.78	\$5.05	0.0075	0.00	6
8	Biomass Plant with 95% Carbon Capture	1 x BFB	50	19,965	\$12,631	\$261.18	\$9.65	0.08	<0.03	10.3
9	Advanced Nuclear (Brownfield)	2 x AP1000	2,156	10,608	\$7,861	\$156.20	\$2.52	0	0	0
10	Small Modular Reactor Nuclear Power Plant	6 x 80 MW Small Modular Reactor	480	10,046	\$8,936	\$121.99	\$3.19	0	0	0
11	Geothermal	Binary Cycle	50	N/A	\$3,963	\$150.60	\$0.00	0	0	0
12	Hydroelectric Power Plant	New Stream Reach Development	100	N/A	\$7,073	\$33.54	\$0.00	0	0	0
13	Onshore Wind – Large Plant Footprint: Great Plains Region	200 MW   2.8 MW WTG	200	N/A	\$1,489	\$33.06	\$0.00	0	0	0
14	Onshore Wind – Repowering/Retrofit	150 MW   1.5 - 1.62 MW WTG	150	N/A	\$1,386	\$38.55	\$0.00	0	0	0
15	Fixed-bottom Offshore Wind: Monopile Foundations	900 MW   15 MW WTG	900	N/A	\$3,689	\$154.00	\$0.00	0	0	0
16	Solar PV with Single-Axis Tracking	150 MW <sub>AC</sub>	150	N/A	\$1,502	\$20.23	\$0.00	0	0	0
17	Solar PV with Single-Axis Tracking and AC-Coupled Battery Storage	150 MW <sub>AC</sub> Solar 50 MW   200 MWh Storage	150	N/A	\$2,175	\$38.39	\$0.00	0	0	0
18	Solar PV with Single-Axis Tracking and DC-Coupled Battery Storage	150 MW <sub>AC</sub> Solar 50 MW   200 MWh Storage	150	N/A	\$2,561	\$39.24	\$0.00	0	0	0
19	BESS	Lithium Ion, 150 MW   600 MWh	150	N/A	\$1,744, (\$436/kWh)	\$40.00	\$0.00	0	0	0

On top of the high cost to ratepayers are the costs to our environment and the community.

<sup>1</sup> U.S. Energy Information Administration, "Capital Cost and Performance Characteristics for Utility-Scale Electric Power Generating Technologies," January 2024, Table 1-2 (page 24). [https://www.eia.gov/analysis/studies/powerplants/capitalcost/pdf/capital\\_cost\\_AEO2025.pdf](https://www.eia.gov/analysis/studies/powerplants/capitalcost/pdf/capital_cost_AEO2025.pdf)

Geothermal is only used in the state in Puna by [Puna Geothermal Ventures](#) (PGV), an Israeli company (Ormat) that has run an inconsistent and harmful operation in Puna with numerous environmental [violations](#). While many support it as a renewable energy source, the lived experience of those living near the facility raises many concerns.

Puna residents have been speaking up for many years with concerns about air releases of hydrogen sulfide and other chemicals brought up in the process (toxic metals, radon...), [health impacts](#) when the community has been exposed to these gases, drilling impacts (noise, well blowouts, underground fracturing, not plugging wells), reinjection of toxic chemicals into the group (PGV claims they're "closed loop" but that is not true), [cultural concerns](#), and the challenges when a lava flow risked igniting 60,000 gallons of pentane stored on-site, which needed help from the governor's emergency order to [evacuate](#) the chemicals from the danger zone.

If geothermal can be done in a closed-loop fashion, and further from residents, that would alleviate some concerns, but would make it even more expensive and it is likely that solar with energy storage can meet energy needs more safely and at least four times cheaper.

The objective of this working group seems to be to explore how to weaken regulations to smooth the path for this industry. No legislative environmental committee should be party to working to weaken or "streamline" regulations that are often inadequate to begin with, as evidenced by the poor operating track record of PGV.

Please vote 'no' on these resolutions.



# Sustainable Energy Hawai'i

sustainableenergyhawaii.org  
info@sustainableenergyhawaii.org

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March 31, 2025

## **SUPPORT for HR54 and HCR58 - Geothermal Energy; Working Group**

Dear Chair Matayoshi, Vice Chair Chun, and Members of the Committee,

I'm testifying on behalf of **Sustainable Energy Hawai'i (SEH)**, a 501(c)3 non-profit dedicated to improving the quality of life for Hawai'i Island residents. Our mission is to enable an economic, social, and environmental revival in Hawai'i through a just transition to sustainable, 100% locally sourced renewable energy and the creation of a thriving clean economy.

**SEH supports HR54 and HCR58**, which requests "THE HAWAII STATE ENERGY OFFICE TO CONVENE A GEOTHERMAL ENERGY WORKING GROUP TO EVALUATE THE REGULATORY AND POLICY LANDSCAPE SURROUNDING GEOTHERMAL ENERGY IN HAWAII."

Hawai'i has geothermal resources available statewide. SEH supports the **funding of a qualified geophysical and geothermal working group** to sufficiently evaluate and document our geothermal regulatory policies. With fundamental regulatory prerequisites in place, intelligent and efficient commercial development decisions can be made for geothermal generation projects without undue risk(s).

Importantly, the ability to generate firm, clean, self-generated, baseload power is a critical bulwark against both natural and man made calamities. Hawaiian energy self-sufficiency is an urgent and important goal that benefits all who call Hawai'i home.

SEH supports the funding of a qualified geophysical and geothermal working group to evaluate our geothermal regulatory policies and effectively frame development efforts.

Please support this measure.

Thank you for this opportunity to testify.

Respectfully,

Keith Neal  
Policy Lead,  
Sustainable Energy Hawai'i

**LATE**

**HR-54-HD-1**

Submitted on: 3/31/2025 2:18:28 PM

Testimony for CPC on 4/1/2025 2:00:00 PM

Submitted By	Organization	Testifier Position	Testify
Kaylan Bray	Students for Justice in Palestine at the University of Hawaii.	Oppose	In Person

Comments:

Aloha Chair, Vice Chair, and Committee members,

My name is Kaylan Bray, a member of Students for Justice in Palestine (SJP) chapter at the University of Hawaii. We strongly **OPPOSES HCR 58, HD1 / HR 54**, which requests the Hawaii State Energy Office to convene a Geothermal Energy Working Group.

SJP at UH is driven by the belief that all colonized and oppressed people have the right to take back their land, to realize self-determination, and to obtain their liberation. We believe this measure poses significant risks to our environment, native culture, and economic future.

While we acknowledge the importance of exploring clean energy options for Hawaii, this measure raises several serious concerns that cannot be overlooked.

First and foremost, the environmental implications of geothermal energy production warrant significant scrutiny. There is a risk of land subsidence, water contamination, and greenhouse gas emissions associated with geothermal projects. These potential environmental impacts could undermine the very goals we seek to achieve in transitioning to renewable energy.

Furthermore, the interests and voices of local communities, particularly Indigenous groups, must be prioritized. Many community members have expressed concerns regarding the cultural and spiritual significance of the land that will be impacted by geothermal developments. Without full engagement and consideration of these perspectives, this bill severely undermines core protections for Kanaka Maoli rights and cultural practices and Hawaii's foundational environmental law, which will lead to substantial, irreversible environmental and cultural harm.

Economically, investing in geothermal energy could divert critical resources from other renewable technologies that have proven to be more viable and cost-effective, such as solar and wind power. This misallocation of funds will ultimately hinder our progress toward energy independence and sustainability.

Moreover, while there may be interest in geothermal energy, public sentiment is not uniformly supportive. Many residents oppose geothermal projects, and pushing forward with this measure could lead to increased opposition and public distrust.

Lastly, similar assessments or working groups already exist and this proposal is redundant and will further complicate the regulatory landscape without providing any additional benefits.

For these reasons, we urge you to HOLD HCR 58, HD1 / HR 54.

**HR-54-HD-1**

Submitted on: 3/29/2025 2:11:51 PM

Testimony for CPC on 4/1/2025 2:00:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Testify</b>
Ann Chung	Individual	Support	Written Testimony Only

Comments:

I strongly support this much needed working group. Please support & pass this resolution.

Mahalo!

Ann

March 30, 2025

**SUPPORT FOR HR54 HD1 and HCR 58 HD1**

Dear Chair Matayoshi, Vice-Chair Chun, and Members of the Committee,

My name is Noel Morin. I support HR54 HD1 and HCR58 HD1, which are *REQUESTING THE HAWAII STATE ENERGY OFFICE TO CONVENE A GEOTHERMAL ENERGY WORKING GROUP TO EVALUATE THE REGULATORY AND POLICY LANDSCAPE SURROUNDING GEOTHERMAL ENERGY IN HAWAII.*

Geothermal energy production has been around for over a hundred years. The Philippines, New Zealand, Indonesia, and Japan have significant geothermal energy deployments in the Pacific region. They offer Hawaii lessons that can speed up our progress in this energy space.

Geothermal energy is increasingly important in the energy transition across the nation because of technological advances in drilling and heat and electricity generation. It can play a critical role in accelerating our transition to a clean energy future and even establishing related industries dependent on access to low-cost, abundant, clean energy. For this to occur sustainably, it is essential that we establish a robust **strategy** and **roadmap** that addresses cultural, social, economic, and environmental considerations to guide the discovery and development efforts.

This resolution calls for a working group to facilitate essential tasks that can contribute to the strategy and roadmap.

I highly recommend that the working group include a Community-Based Organization that will ensure that cultural and social considerations are incorporated into the plan.

Please support HR54 HD1 and HCR58 HD1.

Thank you for the opportunity to testify.

Sincerely,  
Noel Morin  
Climate, Sustainability, and Resilience Advocate  
Hilo, Hawaii

**HR-54-HD-1**

Submitted on: 3/30/2025 11:51:00 PM

Testimony for CPC on 4/1/2025 2:00:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Testify</b>
Malama Solomon	Individual	Support	Written Testimony Only

Comments:

Aloha Mai Kakou,

The background, scope, and outcomes of this Resolution provide a solid foundation for necessary improvement to the regulatory and policy landscape surrounding geothermal energy in Hawaii.

However, I have significant concerns regarding the composition of the Committee tasked with reviewing geothermal regulatory settings. While there is representation from numerous roles, it is concerning that only one geothermal industry expert is included. This imbalance risks undermining the Committee’s ability to fully understand the complexities, opportunities, and challenges inherent in commercially responsible, sustainable geothermal development.

The lack of sufficient geothermal expertise among the Committee members will likely lead to an over-reliance on external industry knowledge. This approach could delay progress and result in inadequate consideration of critical issues such as sustainable reservoir management and environmental impacts.

Section 16 provides the Chair with discretion to invite additional representatives. While this is helpful, it does not guarantee that the necessary expertise will be included. To address this gap, I propose amending Section 14 to explicitly state:

*“Up to three independent geothermal industry experts should be appointed, covering sustainable reservoir management, power plant technology, steam field operations, and overall development experience.”*

and

*“independent experienced regulator from an overseas/mainland US jurisdiction experienced in assessing and considering commercial geothermal development consents/permits from an environmental/community and sustainability policy and regulatory perspective”.*

If constraints on committee size prevent adding these experts directly to the group, then commissioning external expertise will become essential. In such cases, it is imperative that the Committee formulates precise questions to ensure commissioned experts address relevant issues comprehensively.

This proposed adjustment will enhance the Committee's ability to deliver robust recommendations that align with sustainable development principles while addressing Hawaii's unique geothermal opportunities and challenges.

**HR-54-HD-1**

Submitted on: 3/31/2025 8:31:31 AM

Testimony for CPC on 4/1/2025 2:00:00 PM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Testify</b>
Kayla Marie	Individual	Oppose	Written Testimony Only

Comments:

I oppose this measure because this bill prioritizes rapid development over ethical land stewardship