

1 U.S. DEPARTMENT OF ENERGY

2 PUBLIC SCOPING MEETING

3
4 RE: HAWAII CLEAN ENERGY PROGRAMMATIC
5 ENVIRONMENTAL IMPACT STATEMENT

6
7 TRANSCRIPT OF PRIVATE AND PUBLIC COMMENTS

8
9 Friday, September 14, 2012

10 Speakers 5:50 - 6:07 p.m.

11 Public Speakers 6:28 - 9:13 p.m.

12 Hilo High School

13 556 Waiianuenue Avenue

14 Hilo, Hawaii 96720

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1 U.S. DEPARTMENT OF ENERGY

2 PUBLIC SCOPING MEETING

3
4 DAVID A. ANDERSON: First of all, it seems
5 to me that this geothermal is a scam for making money
6 for people who already have a lot of money. Because if
7 it wasn't just a scam, there's so many other
8 alternatives that we could use that don't have any
9 problems with the local people and the environment.

10 We can do the wind. We can do the solar
11 panels. The amount of money that they're putting into a
12 cable that will go under the ocean is incredible and
13 somebody is estimating a billion dollars, and it's going
14 to cost significantly more than that. That would
15 produce a lot of solar panels.

16 Nobody's going to complain about solar panels.
17 Nobody is going to complain significantly about the use
18 of wind.

19 But if you're doing geothermal and you're
20 drilling and producing a wall of noxious gas and noise,
21 disturbing the area for all the people around bringing
22 in heavy vehicles and heavy materials that require
23 restructuring, reworking the roads and all sorts of
24 other problems that will develop from this, why don't we
25 go for something that's simple and won't have opposition

1 from the community? Thank you very much.

2 HALDA ZSOLTIMA: For the record, MA equals
3 mother, a living, life-giving force which gives us, the
4 human family, a chance to experience light, soul in
5 matter.

6 LA equals light which is the true law. When
7 surrounded by two MAs, it is malama, to take care of the
8 living mother with the light of the father providing
9 clarity.

10 The two goddesses on this land are Poliahu and
11 Pele, whom are the balancing forces of heat and cold.
12 The point to the spiritual insight is that she doesn't
13 appreciate intrusion. And drilling and tapping is not
14 pono upon the aina which we are supposed to protect as
15 guardians. We must re-guard her as a living life force
16 to be respected, not raped. She can turn the tables of
17 stability at any time!

18 The father's solar endless energy source is
19 clean and zero intrusion upon mother in forms of
20 drilling, dams, oil excavation.

21 And for a political point, question: Does Bill
22 55 (1155) give the Public Land Development Corporation
23 ability to bypass regulations and develop state land?
24 What can citizens do against this scam?

25 THEODORE NAVARRO, JR.: I live in Hawaiian

1 Acres on Road 6 and D. So my comment is that part of
2 their presentation so far is that they have those
3 programmatic projects and so on and so on, and
4 programmatic developers. But what I would like to know
5 if it could be answered, could the programmatic
6 developers come under Bill 55, which is the bill that
7 created the Public Land Development Corporation?

8 If so, I oppose it and say that the bill is a
9 monstrosity and should not have been passed or put up
10 for legislature. That is my comment.

11 Another comment is if, indeed, they want the
12 geothermal to run to Puna, to make sure that some of the
13 directors and developers live a quarter mile downwind
14 from those plants to taste the ambiance of living by
15 those plants. Thank you.

16 ANNE CRILLY: I was told that there's going
17 to be a lot of experimental wells put all over Puna.
18 I've seen a map. I don't know how accurate it is, but I
19 am very concerned.

20 And I went to a gathering for the civil defense
21 where the head was -- Ben was his name. I don't
22 remember his last name. And he offered me to sign up on
23 a paper where they call people if there's some kind of
24 an emergency before the sirens and stuff go on. He's
25 very friendly to me.

1 And when I asked him, Well, do we have an
2 evacuation plan for geothermal? His attitude completely
3 changed. I was kind of shocked. And I thought maybe I
4 should introduce myself. I reached my hand out and told
5 him my name, and he really crushed my hand shaking it.

6 And I said, Ben, you've got quite a grip on
7 you. And he laughed.

8 What kind of evacuation is for geothermal? He
9 told me there is no evacuation for geothermal and there
10 was no need for it.

11 And I asked him, What kind of emissions
12 monitoring is there? And he said that the monitoring
13 for the emissions is done by the geothermal people
14 themselves.

15 And I asked him, Isn't that kind of like having
16 the wolves protecting the hen house? And he said that
17 he felt completely comfortable with them telling him
18 what the levels were, and if there were any problems,
19 that's the Department of Health's problem, not civil
20 defense. Well, that shocked me.

21 And then later I went on to find out that he
22 was even misinforming me and that there are independent
23 monitoring that people in Leilani and that the people
24 there have a monitoring device. And then I was really
25 concerned to think that why doesn't the head of civil

1 defense know? And he could have me feel much more
2 comfortable by telling me that.

3 And his whole attitude, and he said that he
4 used to work for Green Harvest too, which really upset
5 me. If I'm against geothermal, he thinks that I have
6 something to do with Green Harvest. I just could not
7 fathom where he was coming from. And to think that he's
8 a public official gives me nightmares.

9 I believe that geothermal can be a viable
10 energy source on our planet, but there's nowhere in the
11 world that they have a geothermal plant within 10 miles
12 of human beings. And there's a reason for that.

13 And thank you for your consideration. And
14 please keep people safe. That's what our officials'
15 jobs are. Thank you very much.

16 BETH LERER: More focus and money should be
17 put on the type of energy that's just for people that
18 doesn't require electrical transmission by cables and
19 electric companies. It should make people really
20 independent and more self-efficient and less reliant on
21 electric companies whose only motive is to make money.

22 Geothermal in Hawaii is not a truly viable
23 alternative resource due to the nature of our geologic
24 situation and human population areas.

25 DON PETTY: My question is involving the

1 part about the federal decision on environmental review.
2 What exactly involves the environmental review?

3 The second one is involving 70 percent
4 renewable resources. What is being put in place for
5 control and disposal of the 30 percent?

6

7 TRANSCRIPT OF PROCEEDINGS PUBLIC TESTIMONY

8 FACILITATOR CHANG: The first three
9 speakers will be Richard, Elaine and Henry. So I'm
10 going to ask you to come up. Again, I'm going to ask
11 that everybody in the audience respect the speakers.
12 The speaker is going to be here, we've got the panel
13 there, and the court reporter. You need to state your
14 name and speak clearly. So again, can everybody please
15 take your seat.

16 We've got a young man here, Greg, who's going
17 to hold up a sign at one minute. So please pay
18 attention. And I am going to come very close to you,
19 and that is going to be your signal that your time is
20 just about up. Okay, Richard.

21 RICHARD BIDLEMAN: Thank you. My name is
22 Richard Bidleman.

23 AUDIENCE MEMBER: Louder.

24 RICHARD BIDLEMAN: My name is Richard
25 Bidleman. Can you hear me now?

1 All right. I'm going to read you a statement
2 that I got from James Kauahikaua, who is the lead
3 scientist in the Hawaiian Volcano Observatory. And some
4 of you have heard it before, but many of you may not
5 have heard it. I'm going to read it to you.

6 I asked Jim if the Hawaii Volcano Observatory
7 had ever weighed in on geothermal. And here is his
8 response.

9 Richard, good question. HVO has not been
10 formally asked to testify or submit information on
11 geothermal development in Hawaii in the last several
12 years. You have identified a relevant point that we
13 have made before but seems to have been overlooked in
14 the current flood of interest in geothermal. That what
15 makes geothermal so attractive at Kilauea also poses a
16 threat to the power generation facility and the
17 customers that depend on it.

18 You are correct that the Lava Flow Hazard Map
19 that was developed designated Hazard Zone 1 as the most
20 hazardous for lava flow because it is directly over a
21 volcanic rift zone that erupts frequently. (Applause.)

22 That hazard threatens homes and power plants
23 alike. Of course, it's the same rift zone that is the
24 most lucrative geothermal target in the state.

25 Now, I have one other comment, and it's

1 relatively new. I've been talking to a fair number of
2 people about the loss of ohia trees. In our area alone
3 there have been over a hundred, and it's not some -- it
4 just kind of happened overnight. And I'm beginning to
5 see some things in the literature that we need to take a
6 look at the effect on our ohia trees.

7 I'm not saying that it's geothermal. I'm just
8 saying it's an environmental issue that I think that
9 this group needs to take a look at.

10 We actually had some tests done by both the
11 state and U.S. Forest Service on some live and dead ohia
12 trees in our area. And their testing basically said we
13 didn't find anything. (Applause.)

14 FACILITATOR CHANG: Thank you, Richard.
15 Next is Elaine, and then Henry, and then after that is
16 Corey, Corey Harden.

17 If anybody wants to leave their comments so the
18 court reporter can confirm your statements, please feel
19 free to do so. Elaine.

20 ELAINE MUNRO: Thank you. Okay. I'm going
21 to be talking about utility-scale biomass energy. Two
22 points. One is on health and human safety and the other
23 is on energy efficiency.

24 When it comes to biomass plants, what has not
25 been commonly known is that here in Hawaii there is a

1 salt deposition that goes on the trees. And because of
2 that salt and combustion there's a much higher
3 likelihood of dioxins and furans to be produced up the
4 smoke stack.

5 Dioxins and furans are particulate matter that
6 does not dissolve. It gets carried away in the wind.
7 We breathe it. It becomes accumulated in our tissues.
8 It gets taken up by roots of plants. It becomes part of
9 our food chain. It can become part of milk from grasses
10 that cows eat.

11 So dioxins and furans are very important
12 because they're very toxic. They've been know to be
13 associated with high rates of respiratory disease as
14 well as cancer.

15 At this point no biomass plant on a small scale
16 here in Hawaii is required to put in continuous emission
17 controls for dioxins and furans. That is a mitigating
18 feature that should be considered for the health and
19 human safety of our population. No one has gauged the
20 wind drift of these particles whether in breathing or in
21 food chain. It is very important.

22 My second point is on energy efficiency of
23 biomass plants. The state of Massachusetts recently did
24 a science-based legislation that said that any biomass
25 plant in Massachusetts must attain a 50-percent

1 efficiency rate. The efficiency rate here in Hawaii are
2 23 percent. Why is that important? Why burn more wood
3 to achieve far less efficiency? Make our resources go
4 farther. Require that these plants become more
5 efficient. That's good for everybody, and it's really
6 good for having the resources last longer. Thank you.
7 (Applause.)

8 FACILITATOR CHANG: Thank you. Henry,
9 Corey and then Pierce Myers.

10 HENRY CURTIS: Aloha. I'm Henry Curtis,
11 executive director of Life of the Land. (Applause.)

12 We're in a federal energy regulatory
13 commissions office dealing with liquified natural gas
14 because the gas company wants to bring in, and we're a
15 party to four regulatory proceedings with the Public
16 Utilities Commission completing aina koa pono (ph).

17 I want to address two issues. The first is the
18 Hawaii Clean Energy Initiative. The energy agreement
19 calls for: 1. Streamlining regulation; 2. Automatic
20 approval; 3. Minimizing public input; 4. Presumption
21 that the utility knows best; and 5. Termination of the
22 net metering program.

23 I don't know of anybody outside of the
24 utilities that thinks it's a good idea. That's why they
25 wrote it, and that's why it mentions HECO and its

1 companies 400 times and KIUC once, because it's HECO
2 centric document.

3 The second one deals with palm oil. A few
4 years ago the utility proposed getting palm oil to power
5 their power plants. Eighty-seven percent of the palm
6 oil in the world is grown in Indonesia and Malaysia.
7 They count for 91 percent entering the world trade. It
8 was a very weak industry standard developed by the round
9 table on sustainable palm oil, called for 39 very weak
10 international standards.

11 HECO proposed that they should have to follow 6
12 of them, and 33 as long as the company was working
13 towards them that was fine, and it didn't matter what
14 they were doing on other plantations, just they had to
15 be working towards them on the plantation that they got
16 the biofuel from. So as long as the company was,
17 "Working towards no child labor," and working towards
18 "Free and prior informed consent of native people," that
19 was fine.

20 So is palm oil legal? Yes. Is it renewable
21 energy under state law? Yes. Does it meet RPS? Yes.
22 Is it moral, ethical or value driven? No.

23 So I would hope that since clean energy is not
24 defined, that you include that it has to be responsible
25 energy forms. Thank you. (Applause.)

1 FACILITATOR CHANG: Next is Corey, Pierce,
2 and Kathy. And I will say, I really greatly appreciate
3 that the speakers are keeping to the three minutes.
4 Thank you.

5 COREY HARDEN: Good evening. The
6 Department of Energy should be commended for expanding
7 the scope of the big wind EIS and creating an
8 opportunity for wise choices, and I hope those choices
9 will include planning that involves everyone and that
10 can refocus as times change, that we plan for
11 environmentally friendly energy, that we have solutions
12 that are creatively adapted to individual needs and
13 individual places, that we have solutions that boost
14 global economies, and we have lots of negawatts, that's
15 negative watts otherwise known as conservation.

16 About big wind, there were many studies done
17 but people cannot see them until after this hearing, and
18 I think that is very unfortunate.

19 I also think that perhaps this EIS should have
20 been done years ago. What we've got is powerful
21 interests looking to make a quick buck off anything that
22 can remotely be called clean energy. I wonder if it is
23 legal for clean energy proposals paid for by taxpayers
24 to move forward before this EIS is complete.

25 I wonder if funding, land, and other resources

1 will be eaten up by proposals that look clever today but
2 foolish tomorrow, and proposals that enrich a few people
3 at the expense of many.

4 Here's questions I hope the EIS will answer.
5 What is the best way to plan statewide energy policy?
6 We should look at the history of how we got here today
7 with centralized energy and AC instead of DC. We should
8 look at other states and countries. We should think
9 about what planning should come from the top down and
10 what should come from individuals and neighborhoods and
11 planners.

12 How will economic drivers affect energy needs?
13 Right now the military and tourism are the major
14 drivers, but what if that changes to self-sufficiency
15 for food and other needs?

16 What happens after the EIS? We need a
17 mechanism to monitor and report on results from impacts
18 of EIS's recommendations and be able to change course if
19 needed.

20 We need to think about the best balance between
21 centralization and decentralization. I wonder if we
22 should use a certificate-of-need model for any
23 centralized energy. They use that for health care, and
24 you have to get approval from the state planning agency
25 before you spend a lot of money on construction of new

1 devices. For centralized, who can own and control it;
2 government, business, non-profit, consumers, locals or
3 off-island people?

4 And we need to look at subdivision proposed
5 zoning, public transportation, street design. Thank
6 you. (Applause.)

7 FACILITATOR CHANG: Thank you, Corey. Next
8 I have Pierce, Kathy, and Geoff Last.

9 PIERCE MYERS: Good evening, my name is
10 Pierce Myers. I grew up on Oahu and have been a
11 resident of Lanai for more than 30 years. I traveled
12 here to Hawaii Island because I'm not able to attend the
13 hearing scheduled for Lanai next week.

14 Thank you for accepting comments and
15 acknowledging that the Hawaii Clean Energy Initiative
16 needs to consider all renewable energy sources for
17 possible use in our state. And as I'm speaking and
18 later tonight I ask you please to take a look at the
19 vinyl banner that's hanging back there on the windows.
20 That's a representation of what is planned for Lanai for
21 a wind turbine farm.

22 I believe that the Department of Energy should
23 focus its expertise on helping make each island in
24 Hawaii energy self-sufficient. (Applause.)

25 I ask that included in this PEIS, the

1 Department of Energy provide our state decisionmakers
2 with data comparing utility-scale energy production to
3 smaller community based systems. (Applause.)

4 These data need to compare construction costs,
5 energy costs to make repairs, and environmental impact.
6 The data on environmental impact needs to be presented
7 during three periods: The period of construction,
8 during the life of the project, and during
9 decommissioning. These data also need to show the cost
10 to taxpayers and utility ratepayers for construction,
11 maintenance and demolition. (Applause.)

12 Given government tax credits and other
13 incentives to developers, I would also like to see how
14 much financial risk the utility and the developer are
15 incurring in the utility-scale project. I ask for these
16 data because I suspect that there is little risk to the
17 developers and there will be huge energy cost increases
18 passed on to ratepayers to fund these projects.
19 (Applause.)

20 This means the developers and utility will
21 pocket profits at our expense. Should a utility-scale
22 wind project be developed on Lanai, I'm deeply concerned
23 about the responsibility for the removal of wind
24 turbines after their useful life. As proposed the
25 footing alone for each turbine will contain 1,100 cubic

1 yards of concrete. Removal of this footing and
2 restoration of the area will be a huge expense. I
3 suggest that should even one turbine be constructed on
4 Lanai or anywhere in this state, decommissioning and
5 restoration funds need to be escrowed or otherwise
6 secured and set aside prior to the first shovel cutting
7 the soil. (Applause.)

8 FACILITATOR CHANG: Thank you. I have
9 Kathy Brindo, Geoff Last, John Ota. Kathy, are you
10 here?

11 KATHY BRINDO: I didn't realize I was next,
12 and to tell the truth I would rather be eating brown
13 glass instead of being up here in front of you. It's
14 very scary. I don't like to speak in public. But I'm
15 from Lanai also.

16 People don't realize that on Lanai this project
17 would take a fourth of our island. A fourth. And
18 possibly it would change the harbor and access roads
19 more than that. It's mind boggling.

20 I was trying to think of anything at all that
21 would justify destroying a fourth of an island. Your
22 island. I couldn't think of anything at all.

23 The cable itself, another problem going through
24 the whale sanctuary. That's got its own problems.

25 I do believe that every island should be

1 self-sufficient. In biology there's a tenant that
2 states, stability in diversity. And I think we need
3 that diversity. We need to be individuals and have a
4 lot of different resources for our energy. I'm shaking
5 here. I'm scared.

6 I think the windmills on Lanai, ecologically I
7 think it's a sin. Sociologically for our town, it's a
8 tragedy. Economically for Murdock and Castle & Cooke,
9 it's wonderful. They're going to make a 100 million a
10 year to a billion during the time of the project.

11 For Lanai's people it's going to be a mistake.
12 People come to Lanai because it's unspoiled. We don't
13 have a lot. We have 30 miles of paved road, the rest is
14 four wheel. They rent Jeeps, they rent Hummers, they go
15 four-wheeling. They've never done that before. They
16 don't see a two-story building. They don't see
17 anything.

18 But there are only really three places to go in
19 our hale. Our mountain area is locked in from rain.
20 There's only one other place, and then this area, which
21 are going to be wind farms. So that's going to be a
22 disaster.

23 I've said this before, and in closing I'll say,
24 Castle & Cooke, I read from Castle & Cooke, 95 percent
25 of the people live on Lanai do, and they won't put up a

1 clothesline because it looks bad. (Applause.)

2 FACILITATOR CHANG: Thank you. Next Geoff
3 Last, John Ota, and Phil Barnes.

4 GEOFFREY LAST: Aloha, my name is Geoffrey
5 Last. I have lived in lower Puna for almost 30 years. I
6 chose to live in Volcano Zone 1, and I'm willing to risk
7 losing my home to the volcano because of the sheer
8 beauty of living here where everything is so alive.
9 Therefore, myself and all my neighbors should be part of
10 this EIS and impact statement.

11 However, we in the community feel that we are
12 under attack by outside groups wanting to industrialize
13 our beautiful, quiet countryside with complete disregard
14 for the procedures, Bills 55 and 97. You are our last
15 line of defense before the courts. I have been told
16 that there are 10 to 20 drilling companies waiting in
17 line to invade our community, and the only thing that's
18 slowing them down are you folks.

19 Having said that, I want to talk about
20 geothermal and the health effects. There has never been
21 a complete study of the effects of H2S exposure in Puna
22 near the geothermal plant. The EPA has now stated that
23 low-level exposure to H2S warrants H2S to be listed in
24 EPCRA 313 as a dangerous toxin. The monitoring of toxic
25 gas releases into the community is shoddy and should be

1 looked into. There is no warning system and very little
2 follow-up of complaints of rotten egg smell in the
3 community.

4 PGV has admitted that on average 40 gallons of
5 pentane is unaccounted for daily. Average is that
6 exactly. What about spikes? What if huge amounts of
7 pentane should blow up in an earthquake? The nearest
8 resident is 2,000 feet away from PGV. Lots of time to
9 get them out.

10 Seven years ago in November we had 29 inches of
11 rain in one day. There was flooding over the rest of
12 the island. The water was up to the ankles in my back
13 yard. Two hours after the rain stopped, the water was
14 gone. Lower Puna is a sieve with cracks, tubes, and
15 rocks over cinder.

16 In order to produce 30 megawatts of energy, PGV
17 reinjects 3,000 gallons a minute, 180,000 gallons an
18 hour, 4,320,000 gallons a day of brine to produce 30
19 megawatts. The project is called for 1,000 megawatts of
20 electricity generation, 30 times the amount of PGV
21 geothermal production. Simple math, 142,560,000 gallons
22 a day are going to be reinjected into Puna.

23 What about our ground water with those numbers?
24 There's a question. Reinjection on a small scale has
25 proven to produce earthquakes. What is 142 million

1 gallons going to do?

2 What about our pristine ocean? Who is
3 responsible for monitoring the injectate and the ocean
4 quality?

5 The brine eats up the seals and the steel
6 pipes. No leaks in this closed system?

7 If resource cools down, as it appears to be
8 doing (check with PGV) are they then going to start
9 fracking for heat source in our unstable and volcanic
10 zone?

11 Okay. Anyway, I'll leave my comments. But the
12 noise, we have to have a study of the low-frequency
13 noise, low-frequency emissions. People live 2,000 feet
14 from this plant, and it constantly is going for 24/7.
15 What about their health effects? Okay. Thank you.
16 (Applause.)

17 FACILITATOR CHANG: Thank you. If you have
18 a written comment, you can leave them with the court
19 reporter. Next is John Ota. I've got John Ota next,
20 John Ota, Phil Barnes and Moanikeala Akaka.

21 JOHN OTA: My name is John Ota. I was born
22 and raised on this island. In my travels I have been to
23 many parts of this world. I've worked 13 years in Saudi
24 Arabia. In 1976 Saudi Arabia had a whole village,
25 22,500 people powered and supported by solar power.

1 (Applause.)

2 At that time United States had never even heard
3 of solar power. Before I left Saudi Arabia they had
4 light bulbs throughout the larger towns, Jeddah, Riyadh,
5 Dhahran, all those places all powered by solar, all
6 light bulbs controlled by computers, off and on. That
7 was it. The whole place was powered by solar.

8 Now, we're talking about alternative energy
9 here. The United States is so far behind the rest of
10 the world it's not even funny. (Applause).

11 They haven't even thought about some of these
12 projects other countries are using. I found out that in
13 my travels, like I say, that there are many, many other
14 countries technologically that are more power advanced
15 than we will ever be for quite a while. Like the big
16 wind turbine that they proclaim that they're going to
17 use to generate electricity for Lanai. That gentleman
18 was just up here.

19 Anyway, I can say that they have created wind
20 power that does not use 400 feet of space to drive a
21 blade. They have created smaller versions of it that is
22 more efficient that can provide 65 percent more
23 efficient electrical power with other alternative means.

24 This is something maybe that the DOE should
25 look into because what they're trying to build in Lanai,

1 that's too much, too much play, too much wind is
2 required to even drive those blades. And then the birds
3 going to go right into all those things. What about all
4 those things? The destruction that's going to create.
5 The big platform.

6 This other alternative I'm talking about
7 doesn't require six feet space to put it up, and it can
8 put out more electricity than those big turbines can.
9 Thank you. (Applause.)

10 FACILITATOR CHANG: Phil Barnes, Moanikeala
11 Akaka, Larry Gering.

12 PHIL BARNES: Hi, I'm Phil Barnes, and I'm
13 the Hawaii island representative from the environmental
14 caucus of the democratic party of the state of Hawaii.

15 There are several underlaying principles that
16 must be taken into account when looking at the energy
17 needs of our island. First, is the reduction of
18 greenhouse gas emissions by reliance on fossil fuels for
19 our energy generation.

20 Another concern is the high cost of our rates
21 per kilowatt hour.

22 The first step in any clean energy scenario is
23 to undertake immediate energy conservation protocols to
24 decrease our energy demand. This is by far the most
25 cost effective way to reduce our reliance on fossil

1 fuels on a long-term basis. Once energy demand is
2 decreased, it is much easier to meet our energy needs
3 with renewable energy sources.

4 And two, in terms of producing our energy
5 costs, renewables have a big advantage in our state and
6 our island particularly. With all the talk about
7 renewable --

8 (Technical difficulties.)

9 PHIL BARNES: With all the talk about how
10 renewable energy is becoming much more viable on the
11 mainland, imagine how much more viable it must be here
12 in the islands where energy costs are three times as
13 high. It just makes it, you know, three times more
14 viable here.

15 I mean, if they can have wind farms in Indiana
16 where they've got cheap coal and natural gas in
17 abundance, you know, what's the holdup with our
18 renewables here? Hawaii island along with other islands
19 must meet our energy needs independently at the local
20 level. Energy loss due to long-distance transmission is
21 just another missed effort at energy conservation.

22 As with other islands in the state we have our
23 unique local sources of energy. Distributed solar
24 energy with rooftop PV panels should be greatly
25 encouraged throughout the state. All of the road blocks

1 and obstacles that are limiting what percentage of
2 houses in a given area can be cleared for PV should be
3 eliminated immediately. Local loans and grants should
4 be expended to make this option available for a larger
5 percentage of our population.

6 For utility scale on renewable energy we also
7 have many opportunities here. Wind energy expanded in
8 locations with sufficient wind resources will also need
9 appropriate environmental and cultural consideration.

10 I was going to say a word about geothermal,
11 but I'm sure there's going to be 50 people that testify
12 about it, so I'll just skip that.

13 On the leeward side of the island, there is a
14 possibility --

15 (Technical difficulties.)

16 PHIL BARNES: On the leeward side, it's
17 possible to greatly expand solar thermal generation in
18 the north Kona area. This concerns the baseline power
19 generation as power is produced for hours after the sun
20 goes down.

21 OTEC is another energy source that has long
22 been explored in Kona, and with new pumping technology
23 could be expanded. The future tidal and wave energy
24 biomass application, many other options.

25 As stated previously, these options are now

1 viable on the mainland, and with our high electric rates
2 they should be more cost effective here in Hawaii. We
3 need to move for renewables. (Applause.)

4 FACILITATOR CHANG: Thank you. Remember,
5 if you have a written statement, please give them to the
6 court reporter. Moanikeala Akaka, Larry Gering, and Don
7 Petty.

8 MOANIKEALA AKAKA: Aloha, my name is
9 Moanikeala Akaka. Several decades ago about 120 of us
10 were arrested at Pau Kaili Puna related to geothermal,
11 and the problem -- (applause.) And some of those
12 problems still exist. You hear someone talking about
13 hydrogen sulfide poisoning. We had a pharmacologist go
14 get his master's degree in pharmacologist -- in
15 pharmacology who did a study on the detrimental effects
16 of geothermal energy. And part of that was hydrogen
17 sulfide poisoning which is still talked about. And
18 although geothermal was out of the public view for a
19 number of years, to find out that the people in Puna
20 have been suffering --

21 THE COURT REPORTER: I can't hear. Can you
22 come over here?

23 MOANIKEALA AKAKA: The fact that people in
24 Puna are still suffering from the ramifications of the
25 geothermal energy that's now going on, and we're talking

1 decades later. You know, it's absurd. People are still
2 getting sick, and yet no one has done anything about it
3 in these past decades. Why weren't the government
4 officials doing anything about this? And why didn't the
5 Department of Energy step in? The fact that people are
6 suffering from the ramifications of geothermal energy
7 from the now existing plants. You know, we need more
8 solar energy. (Applause.)

9 And is it because they can't charge us for the
10 sun, that there's not more of a concentration being put
11 on solar energy? (Applause.)

12 In a place where we have so much sun,
13 especially on the Kona side. You know, it's absurd. We
14 should have -- oh, there's ocean energy as well. And
15 this whole thing about using limu and seaweed for energy
16 at the cost of \$26 per gallon is absurd. We should have
17 -- every island should provide its own energy.
18 (Applause.)

19 We live on the neighbor island out of choice
20 because we want a quality of life that's very positive.
21 (Applause.)

22 This cable that popped out of the legislature
23 out of nowhere at the end of the legislature, you know,
24 that can have environmental ramifications, not to
25 mention what it can do to our reefs at a time where

1 globally they talk about protecting reefs because there
2 are fewer and fewer fish that reefs spawn in and come
3 from. And this is happening globally. Yet they talk
4 about wanting this cable? We should not be
5 industrialized for Oahu's electric lights at a time when
6 they're taking their best farmland and utilizing it to
7 grow more houses. (Applause.)

8 And the neighbor islands are supposed to
9 sacrifice our quality of life for Oahu's electricity
10 lights. That is nuts.

11 I went to the democratic party convention and
12 state convention, and you should have seen all those
13 Oahu people saying, Oh, no, we're all one state. We're
14 all in this together. You know, you've got to sacrifice
15 in so many words they were saying, the neighbor islands
16 for Oahu's ever-expanding electricity, and that's a
17 bunch of shabai. (Applause.)

18 And this whole thing about price per barrel of
19 oil that's been going on. We've had this geothermal for
20 all these decades. That is a gift from the aina, and
21 there are many of us that feel it's a desecration of
22 Pele. (Applause.)

23 That they are charging us the same price as
24 electricity. We -- you know, it is up to us. We the
25 people of the Big Island and the neighbor islands to

1 move against this oppression of might makes right from
2 Oahu that wants us to be sacrificed for their electric
3 lights.

4 Also, I want to add that within last year there
5 was an article in the newspapers by HELCO saying that we
6 will save a couple of cents with geothermal in there. A
7 couple of cents and in 20 years we'll save a dollar and
8 a half. Now what do you call that? I call that us
9 being exploited and enough is enough.

10 THE COURT REPORTER: I can't understand
11 you.

12 MOANIKEALA AKAKA: Thank you. (Applause.)

13 FACILITATOR CHANG: For us to make this
14 time, we're going to have to stick to three minutes. So
15 I'm trying real hard to show you by standing as close as
16 I can to you.

17 So the next speaker is Don Petty, then Paul
18 Kuykendall, and then Suzanne Wakelin. So, Don, are you
19 here?

20 MS. SUMMERSON: Dawn, please ask people
21 that they have to be looking at the court reporter.

22 FACILITATOR CHANG: Did you hear that? You
23 have to stand here so that the court reporter can see
24 you. And I know this is really emotional, but to
25 accurately get your statements she needs to be able to

1 take it down.

2 So Don. After Don, is Paul Kuykendall and
3 Suzanne Wakelin.

4 DON PETTY: I have a question. You guys
5 were talking about 70 percent renewable resources. What
6 is being put into effect for management and for waste
7 management and disposal for the other 30 percent?

8 FACILITATOR CHANG: Don, what we decided
9 was we were going to hold the questions after everybody
10 made a comment. So would you like to make a comment?

11 DON PETTY: That was the question.

12 FACILITATOR CHANG: Okay. So if you don't
13 mind, what we've decided to do was the group said let's
14 take the comments first. So Don, if we have time, we'll
15 take your question.

16 Okay, the next one is Paul Kuykendall, Suzanne
17 Wakelin, and then Russell Ruderman.

18 As long as you keep it to three minutes and
19 face the court reporter.

20 PAUL KUYKENDALL: Mahalo for allowing the
21 community to comment on energy development on the Big
22 Island in the state of Hawaii.

23 I would like to request the DOE and the State
24 of Hawaii to take a serious look at the recommendations
25 of Henry Curtis and Life of the Land regarding

1 alternative energy distribution especially ending the
2 grid as we know it and focusing on microgrids or energy
3 independent homesteads. (Applause.)

4 This will alleviate the need for utility-scale
5 power generation and the inherent problems they include,
6 including high costs and environmental and community
7 impact.

8 I live within one mile of Puna Geothermal
9 Venture, Hawaii's utility-scale geothermal plant. I'd
10 like to share with you my experience with that plant and
11 those of my neighbors. I'm doing this as an experienced
12 way based of describing my concerns about any
13 utility-scale geothermal in Hawaii.

14 The common theme between what has happened in
15 Puna and any proposed geothermal plant is that Hawaii's
16 geology makes the development of geothermal more toxic
17 than in other locations. This coupled with poor
18 oversight has lead to numerous problems which I'm afraid
19 will be repeated with any geothermal development. It
20 has also resulted in significant opposition to
21 geothermal development in Hawaii and Puna.

22 The DOE should not fund geothermal development
23 because it offends Pele. Another way of saying this is
24 that it is folly to build industrial-scale development
25 that drill into the volcano in Lava Zone 1.

1 One major concern about geothermal power is the
2 lack of community involvement and lack of state
3 regulatory oversight. I ask the DOE to review this
4 history of the damage that has been done to the people
5 and the land of Puna. I request that the DOE study the
6 steps the state has taken to bypass environmental laws
7 and local and cultural needs. With passage of Hawaii
8 Act of 97 this year, the counties have been stripped of
9 their land use control over geothermal development.

10 We are concerned about the toxic and
11 radioactive nature of geothermal brine and the health
12 effects of low-level and high-level exposures. The
13 geothermal brine contains, among other things, hydrogen
14 sulfide, lead, nickel, chromium, radon, and mercury.

15 We are concerned about catastrophic releases
16 when there is a blowout or if a well is severed in an
17 earthquake. In 1989 a catastrophic accident at PGV had
18 a well blowout.

19 AUDIENCE MEMBER: 1993.

20 AUDIENCE MEMBER: 1991.

21 (Technical difficulties.)

22 PAUL KUYKENDALL: So in 1991, excuse me,
23 there was a catastrophic accident that had 2,000 pounds
24 of hydrogen sulfide over a 31-hour period killing
25 animals and forcing the evacuation of the Puna

1 residents.

2 Right now the PGV is pumping 3,000 gallons per
3 minute of toxic brine back into injection wells. If a
4 pentane explosion, earthquake or a hurricane breaks
5 their pipes, it would take minutes for the air, land and
6 water to be irrevocably fouled.

7 We are concerned about a poor emergency plan,
8 we're concerned about health risks, we're concerned
9 about ongoing noise, and we're concerned about release
10 of explosive gasses such as pentane.

11 For these reasons we request the DOE and the
12 state of Hawaii pursue no further utility-scale
13 geothermal development in Hawaii. We feel it is unsafe,
14 unwise, costly, inefficient and unnecessary. Mahalo.
15 (Applause.)

16 FACILITATOR CHANG: Thank you. Next is
17 Suzanne, Russell, and Barbara.

18 I really appreciate the emotion. I just want
19 to let you know that when you clap, you're just taking
20 time away from the speaker. And that's okay. I don't
21 want in anyway to stop you from doing that. But
22 understand that that's cutting into their time. Thank
23 you.

24 SUZANNE WAKELIN: Aloha, I'm Suzanne
25 Wakelin. I will be submitting a written testimony with

1 detailed questions and concerns, but for now I want to
2 go on the record that I support efforts to shift from
3 petroleum-based energy to renewable sources.

4 I want energy development to properly address
5 the Hawaiian cultural, historic, environmental, economic
6 and health concerns. I request that the DOE investigate
7 and address this.

8 I do not agree with the proposals for large
9 scale land systems. We must look to smaller distributed
10 systems, energy efficiency and conservation. I request
11 that the DOE investigate this.

12 I do not accept the approach by the state for
13 geothermal in Hawaii. Solar is a far better option, and
14 I request that the DOE investigate this.

15 I do not accept the industrialization of Hawaii
16 or the long-distance power transmission. I request that
17 the DOE properly investigate this.

18 I do not accept energy development as a
19 money-making enterprise at the expense of the land, the
20 nature, Hawaiian culture and people. I request that the
21 DOE investigate this. (Applause.)

22 This is an opportunity, and I appreciate that
23 the EIS process can help us determine and implement the
24 very best policies for our islands. Mahalo.
25 (Applause.)

1 FACILITATOR CHANG: Thank you. I have
2 Russell, Barbara Kahn-langer, and John Olson.

3 RUSSELL RUDERMAN: Aloha, my name is
4 Russell Ruderman. Thank you for doing this EIS. I'm
5 going to talk briefly just about geothermal in Hawaii.
6 You're hearing so much about it here. It's because
7 we're the folks -- as you go around the state, we're the
8 people who have direct experience with it. And I hope
9 that when you analyze geothermal options for the state,
10 that you look at the real experience of geothermal in
11 Hawaii, which is different from geothermal elsewhere.
12 And I hope you pay attention to the experience of the
13 people who have actually lived near this plant and take
14 that into account.

15 Here we have not yet found out the cost of
16 geothermal in Hawaii. We're still relocating people.
17 We haven't done the health studies. We haven't seen the
18 massive lawsuits that are going to come after the health
19 studies.

20 I hope that you will have -- in sympathy with
21 the people from Lanai. One of the things that I want to
22 urge is that you value healthy communities and plan
23 energy that will not harm our communities. We have
24 precious little land here. It's very highly loved. And
25 we don't want to sacrifice any more of it because it's

1 not necessary.

2 I really think that the safest and most
3 reliable technologies should be highly valued for those
4 reasons. To me that's solar, wind and efficiency
5 investments. We need to address the issues that keep us
6 from maximizing solar and solve that problem.

7 In regards to the cable, I just want to hope --
8 I hope that you'll analyze the cost of the cable
9 compared to the cost of localized sources, the cost of
10 the same power sources located on each island, analyze
11 the benefits of each island's self-sufficiency, analyze
12 and compare it to what power sources we could put at the
13 location of demand such as solar and analyze the energy
14 losses in transmission.

15 I hope that in addition to comparing the cost
16 of these options versus a cable, we'll also look at the
17 reliability and the incredible problems we're going to
18 have if the cable -- when the cable fails.

19 I just want to briefly address the cost issues.
20 We do face incredibly expensive electricity here on the
21 Big Island even more than in Hawaii. I run a group of
22 grocery stores, and I'll say that unlike anywhere else
23 in the country our electric bill is higher than our rent
24 in every one of our locations. And that affects people
25 every day. It affects people in the price of

1 electricity. It affects people in the price of their
2 food. It affects poor people disproportionately.

3 So please take that into account especially
4 with regards to the desire on the behalf of certain
5 developers to add very expensive new items into our
6 electric bill such as the cable and interisland
7 connectivity that's going to increase our cost forever.
8 They're trying to get that in under the wire before you
9 guys do your study. It's going to be disastrous for
10 you. Thank you very much. (Applause).

11 FACILITATOR CHANG: Thank you. Next
12 speaker is Barbara, John, and Rodney.

13 BARBARA KAHN-LANGER: My name a Barbara
14 Kahn-langer. I want to reiterate what Russell Ruderman
15 just said. My energy background is from a time I worked
16 for a very large nuclear power utility called Whoops in
17 the state of Washington. Oh yeah, it's not quite that
18 funny.

19 But what I did at that time was I was a lowly
20 technical editor, and my job was to read and edit all
21 kinds of energy scenarios from biomass to different
22 kinds of nuclear energy to solar and everything else.

23 At that time the big joke was, Jimmy Carter and
24 his solar-powered truck which wouldn't go anywhere if
25 there was a cloud overhead. That was in 1978. Look at

1 us now.

2 Just about everybody here uses some form of
3 solar energy. In our house, in our place, we have
4 panels on our roof. What I have as a great concern is
5 that DOE will be looking at us as a large area where we
6 need to be cared for in some way or place. And believe
7 me, DOE people, we don't need to be cared for. We know
8 it is way too expensive.

9 We are self-reliant. We are intelligent. We
10 know how to grow and produce food. We know how to care
11 for our own selves, and we know how to work
12 interconnectedly with our neighbors.

13 We have a volcano up the road kind of. Please
14 pay attention to Richard Bidleman's comments about
15 speaking to the HVO staff. I thank you very much.
16 (Applause.)

17 FACILITATOR CHANG: John Olson, Rodney
18 Dorn, and Kevin Patterson.

19 JOHN OLSON: Good evening. I would like to
20 address the issue of the cable. I would like to address
21 the issue of the cable. I would like to be able to
22 address the issue of the cable as it now stands as a
23 theoretical entity. I would like to be able to discuss
24 with you intelligently what it's going to cost, the
25 impact it would have on where it runs, and what kind of

1 power source it might be connected to. I cannot do
2 that.

3 This theoretical cable, though, has allowed the
4 state to join all of the islands in this process to our
5 detriment. It is no small matter that I notice that the
6 areas that have been targeted are areas of low income,
7 predominantly of color, and are very easy for a large
8 entity to prey upon, the utility.

9 Now, where I come from, the Puna district,
10 which has endured geothermal for 20 odd years, blowouts,
11 leaks, explosions, the list is endless. While we may be
12 low income, we have the highest level of home ownership
13 in the state. As the previous speaker has indicated to
14 you, we're not helpless, and we're not looking for a
15 handout.

16 So I'll give some other comment on this, but
17 this is simply one area that is an indicator to me and
18 many others who have followed these issues for a length
19 of time, the way that the Department of Energy past and
20 present has been manipulated by the state and the
21 conglomerate that owns the utilities on the major
22 islands.

23 If you get a chance to wonder around Honolulu,
24 you'll notice that the state capital on its north and
25 west side is surrounded by buildings owned by HEI. That

1 probably isn't a mistake. (Applause.)

2 FACILITATOR CHANG: Rodney Dorn, Kevin
3 Patterson, and John Thomas. Rodney Dorn? Okay. I
4 don't see Rodney. Do we have Kevin Patterson? John
5 Thomas? Michael Hison, Star Newman. Michael, okay.
6 After Michael is Star Newman, and then Michael
7 Hollinger.

8 MICHAEL HISON: Aloha, my name is Michael
9 Hison. I've been working on development of energy
10 propulsion rockets and neuroscience for a while. My
11 time is up?

12 I'm sorry. Okay. Been doing a number of
13 things, things to do with propulsion energy, physics.
14 And I just wanted to address this whole topic, basically
15 to kick it into the future.

16 The issues involved in energy supply are
17 obviously complicated, but it is clear we need to move
18 toward self-powering this island and the state with
19 localized power.

20 While we can do a lot with solar, wind and
21 ocean energy and the like, we are at a technical
22 watershed. We are on the brink of having clean power
23 from things like cold fusion, sonofusion and other
24 low-energy nuclear reactions and perhaps even energy
25 from the volcano itself.

1 The low-energy nuclear reactions recently had a
2 3,200 person conference where there was a demonstration
3 of something like a cold fusion system, and that is now
4 confirmed by hundreds of studies that several such
5 systems are nearing the market and should soon be off
6 the shelf. That means that all the existing
7 technologies suggested in your EIS scoping, while
8 useful, may soon be completely obsolete.

9 I strongly suggest that we look at all options
10 including hemp for biofuel which has yet to be mentioned
11 and can create 1,200 gallons per acre given three crops
12 a year. All the -- let's see.

13 Geothermal energy has been called renewable,
14 but the resource cools off. It's been called clean,
15 which is obviously false since there are numerous
16 effects of hydrogen sulfide which is three times more
17 toxic than cyanide, radon of 200,000 picocuries per
18 liter when they're move with those of 4 picocuries,
19 ground water contamination, sick people near the plant,
20 and the risk of catastrophic blowouts with up to eight
21 and a half miles of lethal radius.

22 All this has been ignored by the Department of
23 Health, which is their responsibility for over 20 years.

24 And finally, geothermal is hideously expensive.
25 Some 300 million dollars to get 35 megawatts makes

1 geothermal at least four times more expensive than any
2 other power plant that I'm aware of

3 Now, all this comes before any ideas of
4 billions of dollars on cables that have to go to great
5 depths in lava zones subject to undersea landslides and
6 the like. To call geothermal safe, clean, cheap and
7 renewable is plain wrong. It is already obsolete.
8 (Applause.)

9 And we have better options. Let's preserve the
10 island and the state and keep it the paradise it already
11 is. (Applause.)

12 FACILITATOR CHANG: Thank you. We have
13 Star Newman, Michael Hollinger and James Hedgecock.

14 STAR NEWMAN: Well, aloha, first of all,
15 and I want to thank you for joining us because it means
16 a lot out here in the middle of the ocean that the
17 federal government comes this far to hear what we have
18 to say. So we greet you with much aloha and
19 appreciation for your willingness to hear us.

20 For members of my community it was nine years
21 ago this week that I have still been suffering from the
22 loss of smell and taste from a geothermal well blowout
23 released in the days sometime between September 9th the
24 12th, 1993.

25 When this happened I was in complete shock to

1 be sure, and I was scared because I was told this could
2 be permanent. And I spent three weeks wondering, I am
3 ever going to be able to smell or taste anything again.
4 Now, this was kind of a moderate blowout, one that was
5 hardly even reported, but I was scared.

6 Currently I'm working with honey bees. We have
7 the Bee Buddy Project which the mayor supports and we're
8 doing a big event in Kalapana tomorrow.

9 But if just a little bit of a blowout threw out
10 my sense of taste and smell, what is it doing to our
11 honey bees? Our honey bees are already so severely and
12 profoundly endangered on this island. So many things
13 that are involved, and now all these things are going to
14 all the other islands. Everything we can do to temper
15 and mediate their environment and ours is well and good
16 for all of us.

17 And the other day when I read that story in
18 Star Kona about Kikikau and Kulauli (ph) up there and
19 whatever, I was driving down the red road and I said,
20 Oh, my god, what are they thinking? I could be driving
21 to the red road and seeing drilling rigs like I'm in
22 Texas or Oklahoma or California.

23 People spend years of their lives working to
24 create a holiday so they can come here and visit Hawaii,
25 our beautiful paradise, and they're going to come here

1 and want to see that? Zero.

2 I don't want to live here if that should
3 happen. I'll do everything I can to help stop it.

4 I went to a meeting with John Olson and a
5 number of community people some years ago about what we
6 would do if there was a geothermal blowout. I went to
7 about three of these meetings in the last month. What
8 he said when it could blow out and the whole land could
9 melt and run down the hill like lava. I was like, this
10 is too scary. I've got to stop going to these meetings.
11 'Cause if it's that bad, what are we going to do? We
12 just have to stop. We have to be mindful of what we are
13 doing.

14 So I've been thinking about this along with
15 other things, and the first thought that comes to mind,
16 especially after India lost its power for two days and a
17 billion people had zero electricity was, we have to
18 diversify.

19 I came up with a concept of self-power, and I
20 came up with the idea of asking our mayor to please call
21 some kind of challenge to the brilliant people of our
22 island to come together, to come out of your basements
23 and your garages, the inventors, the girls, the boys,
24 the men and women, who are out there figuring out what
25 they can do to make things better. We're here to make

1 things better. We came to this island to help make a
2 difference. This is our opportunity to do that. That's
3 it. We're here seeking solutions. Thank you.

4 (Applause.)

5 FACILITATOR CHANG: Next is Michael
6 Hollinger, James Hedgecock, and Henry Horton.

7 MICHAEL HOLLINGER: Aloha guys. Thank you
8 so much for coming out here and having the opportunity
9 to listen to everybody. Right now most of us really
10 appreciate to be a part of the process.

11 So many people touched on so many things that I
12 wanted to touch on. One of the things I wanted to make
13 sure you guys thought about was you take into effect
14 what the energy plans for the entire state would do for
15 development, because that very much is a environmental
16 impact.

17 What does this much energy do for the
18 developers and what they would possibly want to do with
19 our islands, especially with the new state entity, the
20 Public Land Development Corporation. So please, just
21 keep that in mind. Realize that we are not Oahu. We
22 live here because we are not Oahu. We do not want to be
23 Oahu. The other islands are not Oahu. Lanai is not
24 Oahu. All right. Thank you so much. (Applause.)

25 FACILITATOR CHANG: Okay. We have James

1 Hedgecock, Henry Horton, and Bill Collins.

2 JAMES HEDGECOCK: Thank you folks, for
3 giving us all the opportunity to speak about this. I
4 didn't have anything prepared today. I don't think I
5 needed to be because a good many of the points that I
6 would have spoken about have already been covered. I
7 can't think of any one issue that's more important --
8 well, there probably are, but I can't think of one
9 that's more important than the others. So I'll not get
10 into specifics. But I want to go on record as being
11 vehemently opposed to almost every project that you
12 mentioned tonight; the transocean cable, the geothermal,
13 which I'm personally interested in and involved in
14 because I live a mile and a half from PGV, and my wife
15 and I have both suffered major illnesses because of it.
16 We have no jobs because of geothermal and our health
17 problems that have occurred.

18 I don't know -- apparently nothing's going to
19 get done tonight, but I hope some of the information
20 that you've collected will go toward the EIS that you
21 will be working on and producing. And I just -- I'm
22 amazed that I've got about 20 pages here of stuff that I
23 could have gone through and picked out a few major
24 points. But I don't see any point to it because it's
25 all baloney. Mahalo. (Applause.)

1 FACILITATOR CHANG: Thank you. Next I have
2 Henry Horton, Bill Collins, and Tracy Hedgecock. Could
3 you state your name for the record, too, 'cause I know
4 I'm calling your name, but I want to make sure the court
5 reporter is getting it as well.

6 HENRY HORTON: Aloha, Kakou. Can you hear
7 me? I haven't been able to hear hardly a thing because
8 the system is so terrible. Mahalo for being here, for
9 giving us this opportunity.

10 We are dealing with the oldest story in human
11 history, one with huge environmental impacts. The city
12 eats the country and spits out garbage. It destroys the
13 land and calls it development. With talk of 1000 to
14 1,400 megawatts of geothermal development on this
15 island, we are looking at Puna becoming -- and Kau
16 becoming an industrial wasteland. Windmills on Kauai
17 (sic) and Molokai is the same story. Let each island
18 develop and utilize its own energy.

19 And I have a question? Why do you think they
20 call it "power?" Well, the real power is looking at me
21 right now. (Applause.)

22 And we will not let this happen. I first heard
23 of Puna from the 22nd April 1986 Time Magazine cover
24 when all of the heros were up there. I live right next
25 door, and I'm in the middle of it, and it's not going to

1 happen.

2 Let each island develop its own power. I live
3 on solar, by the way. (Applause.)

4 FACILITATOR CHANG: Thank you. I have Bill
5 Collins, Tracy Hedgecock, and then Haley Johnson.

6 BILL COLLINS: My name is Bill Collins.
7 I'm going to speak quickly. I'd like to discuss
8 industrial hemp as part of the solution for Hawaii's
9 energy situation. (Applause.)

10 It can address four out of to five of your
11 categories and can be tailored as needed.

12 In Hawaii 1996 Cynthia Theiland introduced
13 Hawaii's first hemp bill HB305 to allow a research plot
14 to be planted. The research was conducted by Dr. David
15 West and completed in 2003. His conclusions stated that
16 it would be possible to create a variety of hemp that
17 will grow to 10 feet tall in 3 months here in Hawaii.
18 That's 90 days from seed to 10 feet. It's 16 years
19 later, all we have is more hemp bills allowing more
20 research that are to take effect 2050, if they are
21 passed, rendering them completely ineffective. In those
22 same 16 years Canadian has created a billion dollar hemp
23 industry.

24 Hemp biomass derived fuels and oils can replace
25 every type of fossil fuel energy product. Hemp can be

1 easily precessed for biodiesel, cellulosic ethanol,
2 methanol, feedstock for gasification and pelletized.
3 The biomass has five to eight thousand BTUs per pound.
4 One acre produces an average of 10,000 pounds of biomass
5 and 1,000 pounds of seeds every three months.

6 With these numbers, I conservatively calculated
7 that less than one million acres would satisfy the
8 state's entire 284 trillion BTUs of consumption. And if
9 we commit to 10 percent of our 100,000 acres, this would
10 satisfy 10 percent of our consumption and keep 10
11 percent of the 6.9 billion that we spend on petroleum
12 products, which means nearly \$700 million remains here
13 in our farmers' hands, in small business hands, and in
14 our local economy. So as our energy needs grow, our
15 community will become stronger.

16 Hemp has been an important crop for humankind
17 for thousands of years. In addition to energy, hemp has
18 thousands of benefits. It could be used as food,
19 textiles, building materials, livestock feed,
20 bioremediation which means it will repair damaged lands.
21 It requires zero pesticides, zero herbicides, there's
22 zero waste and zero sulfur emissions.

23 Hawaii is the perfect place to seek biological
24 energy solutions, and hemp can grow in all of our 11
25 different climates up to 12,000 feet with some

1 varieties. Eight states now grow industrial hemp and 23
2 more have legislation introduced. Thirty-one countries
3 grow industrial hemp. The Hawaiian people deserve to be
4 included and sharing the benefits of a long-term,
5 sustainable, renewable green energy solution like
6 industrial hemp.

7 There are challenges, new legislation needs to
8 be written, but we have recently seen how quickly
9 legislation can move through Hawaii with the passage of
10 the PLDC legislation. Possibly support from the DOE and
11 the people may be the incentive necessary to overcome
12 these challenges. So please consider industrial hemp as
13 a real solution for the people of Hawaii. (Applause.)

14 FACILITATOR CHANG: Next is Tracy
15 Hedgecock, and Haley Johnson, and Maria Steele.

16 TRACY HEDGECOCK: Aloha, I am Tracy
17 Hedgecock. Thank you for joining us here tonight. I
18 agree with everything that's been said here tonight, so
19 I'm not going to go over it all again. Environmental
20 impact statement, I oppose -- I am opposed to geothermal
21 windmills, inter-island cables to be developed here
22 anywhere in the State of Hawaii. Thank you very much
23 and good evening. (Applause.)

24 FACILITATOR CHANG: Next is Haley Johnson,
25 Maria Steele and Matt -- is it Richards?

1 HALEY JOHNSON: Aloha, my name is Haley
2 Johnson. Thank you for being here. All right. Some
3 questions I'd like to propose to the EIS are: What are
4 the risks of drilling in a Lava Zone 1 with high
5 volcanic activity when there are studies that link
6 geothermal wells to causing earthquakes and inducing
7 seismic activity?

8 Has the EIS considered the huge economic losses
9 if operations are disrupted by this volcanic activity?

10 Why locate geothermal plants in an area where
11 HELCO is ranked fourth as the energy source for people
12 who love solar energy technology?

13 Why hasn't solar energy been a safe,
14 cost-efficient energy source and been considered before
15 such an destructive, dangerous and highly toxic option?

16 How will the industrialization of Puna affect
17 the tourism industry which is a source of income to many
18 residents? The EIS should conduct a third-party health
19 study on the impact of chronic exposure to hydrogen
20 sulfide emissions. (Applause.)

21 The EPA has determined the cause of
22 irreversible human health effects and the affect of
23 constant noise and night light and toxic emissions on
24 the plants, animals, birds, insects. How will this
25 affect our environment and the bees?

1 How will the population be compensated for the
2 reduced property value caused by the close proximity of
3 the geothermal plant? Will a relocation program be
4 implemented for those living close to the wells?

5 Yet should they identify the entity responsible
6 to provide insurance for those have have to move due to
7 the problems arising from the projects considered?

8 And finally, has the EIS considered the
9 negative publicity and civil unrest likely to occur if
10 future geothermal drilling attempts try to proceed?

11 Thank you. (Applause.)

12 FACILITATOR CHANG: Next I have Maria
13 Steele, Matt Richards, Toby Hazel.

14 MARIA STEELE: Aloha, my name is Maria
15 Steele, and I live about two miles away from the current
16 geothermal well, and these are some of my concerns that
17 I just wanted to highlight which arose. Everyone who
18 has talked about the geothermal has already addressed,
19 but I just want to make a few points here.

20 The EIS should address the impact of hydrogen
21 sulfide gas produced by the geothermal plants, which is
22 a lethal poison, on the people, plants and animals in
23 the surrounding areas. They should address the impact
24 of geothermal drilling in a highly unstable region such
25 as Puna with high seismic potential. The EIS should

1 address how rural infrastructure will be effected by
2 industrial-scale traffic and activity.

3 They should address the scope of an evacuation
4 plan for geothermal activities in rural areas and what
5 standards will be used and how will it be enforced and
6 executed.

7 They should implement an independent
8 third-party health study to address the issues of noise
9 and toxic emissions and mixtures of nasty chemicals are
10 released. And the small existing PGV well has produced
11 already, emissions that have exceeded a lethal dose for
12 humans with 18 civil defense emergency blowouts and
13 leaks.

14 The DOE and EIS should address the cost for the
15 undersea cable to Oahu expected to exceed \$10 billion.
16 That's totally crazy. That amount of money could put a
17 solar hot water system on every roof in the state.
18 That's phenomenal. (Applause.)

19 I agree with what everyone here is saying and
20 about having each island develop its own truly
21 effective, sustainable power which encompasses economic,
22 moral, cultural, and environmental solutions. Thank you
23 very much. (Applause.)

24 FACILITATOR CHANG: Okay. Matt Richards,
25 Toby Hazel, and is it Dylan Johnson?

1 Okay. I really thank all of you. You're
2 really doing a great job. We're about halfway through
3 the list, so the thank you for your corporation.

4 Matt Richards, are you here? Okay. Toby
5 Hazel, are you here? Dylan Johnson.

6 DYLAN JOHNSON: Here.

7 FACILITATOR CHANG: Okay. And after Dylan
8 is Judith Mura and Laura Travis.

9 DYLAN JOHNSON: Hi. The EIS should address
10 the impact of hydrogen sulfide gas produced by
11 geothermal plants which has been proven to be a lethal
12 poison. I know this has been talked about many times,
13 but I don't think it can repeated too many times as this
14 is a serious, serious health threat to people of Puna.

15 The EIS should address the effects on the
16 ground water considering the reinjection of contaminated
17 pollutants at geothermal plants. Specific questions
18 regarding ground water are:

19 What distance from the plants will ground water
20 from the plant affect plants, animals, and people's
21 wells?

22 How will the plant protect against damages to
23 pipes that could occur in a natural disaster such as an
24 earthquake to prevent the ground water pollutions from
25 seeping into the ocean and surrounding area?

1 What kind of radius will the ground water be
2 affected?

3 How will ground water be monitored to ensure
4 that people's wells are not poisoned as well as the
5 ocean and the plants and the surrounding environment?

6 The EIS needs to address the handling and
7 disposing of pentane and the dangers of an explosion
8 caused by an earthquake, lightening strike, lava or
9 other natural disaster and the aftermath such as
10 uncontrolled venting in Puna which can cause
11 unimaginable damage to Puna; irreversible.

12 What is a safe distance to locate a geothermal
13 plant from residents considering air, water and noise
14 pollution? This is a serious question that needs to be
15 answered with a real house study and real science.

16 The EIS should address the psychological
17 damages due to loud noise and sleep depravation caused
18 by loud noise that goes on 24/7.

19 How will hydrogen sulfide and other pollutants
20 be monitored to ensure only a safe level is being
21 released, and how will this be enforced?

22 The EIS should address real people living near
23 new geothermal developments who need to be relocated
24 from their homes. Who will compensate the people who
25 need to be relocated?

1 Considering that PGV, one small well, which has
2 caused 18 civil defense emergencies and one blowout and
3 a required evacuation, how could a large scale that has
4 been estimated at approximately 10 or 20 times that size
5 in the same community affect the surrounding community?
6 (Applause.)

7 FACILITATOR CHANG: I have Judith -- is it
8 Mura,, Laura Travis. Is Judith here? Okay, great.
9 After Judith is Laura Travis and Tom Travis.

10 JUDITH MURA: Aloha, I'm so glad that all
11 the people from my community are here to support our
12 community. And it's really a shame actually that we are
13 here because we shouldn't have to be here if our country
14 was looking out for us and for our interests.
15 (Applause.)

16 They want to talk about clean energy. Just
17 because you put the word "clean" in front of energy
18 doesn't make it clean.

19 Another one is that you mentioned the
20 preservation of parks, endangered species, et cetera.
21 What about its residential communities? What about its
22 people? If the United States cannot lead as an example
23 to the rest of the world, let's follow Germany and
24 Spain. And I oppose this endeavor, and I know you all
25 do, too. That's all. (Applause.)

1 FACILITATOR CHANG: I have Laura Travis,
2 Tom Travis, and Daniel Cunningham. Is Laura here?

3 AUDIENCE MEMBER: They left.

4 FACILITATOR CHANG: They left?

5 AUDIENCE MEMBER: What number are we on?

6 FACILITATOR CHANG: We are on No. 30 -- did
7 Laura and Tom leave?

8 AUDIENCE MEMBER: Yes.

9 FACILITATOR CHANG: So we are at No. 37.
10 Daniel Cunningham. Okay. And then after Daniel, I've
11 got Joyce Folena and Gregory Smith.

12 DANIEL CUNNINGHAM: Thank you. Rothschild
13 made a statement, perhaps people have heard this before,
14 If I control the currency, I care not what laws they
15 make, I will determine their destiny.

16 Until we have publicly owned currency -- and
17 our economy was a canvas economy until Rockefeller said,
18 Competition is a sin, and petroleum took over canvas.
19 We have a petroleum economy, and now the petroleum is
20 high priced and in short supply. And nuclear is a
21 suppressed science and deserves recognition to be a free
22 energy technology that would set us free in the hands of
23 an informed people.

24 Hemp, nuclear and the prospect of a state-owned
25 bank upon which to build a floating city make living on

1 land obsolete. Turn us back into a bird sanctuary.

2 Wouldn't that be a nice idea? Thank you. (Applause.)

3 FACILITATOR CHANG: I have Joyce Folena,
4 and after Joyce is Gregory Smith and Martin Blackwell.

5 JOYCE FOLENA: Thank you. My name is Joyce
6 Folena. I've been a resident of Hawaii since 1983 in
7 November, and I'm going to say that I am very strongly
8 opposed to any further geothermal research, development,
9 drilling in my Puna district. And the reason I oppose
10 this is because I was living in Kalapana Seaview
11 Estates, which is the Kahena area of Highway 137, the
12 coastal road of Puna. During the blowout -- we in about
13 8-1/2 miles straight -- we're at the coastline -- from
14 PGV. During the blowout I was wakened at 8:00 in the
15 morning, which is late for me to sleep, and I was
16 lethargic. I heard a roaring sound. I thought Pele had
17 erupted up on the ridge above me. Seaview Estates is on
18 a hill from the shoreline on up. I called the police
19 department at 8:00. I was experiencing classic H2S
20 symptoms. I didn't know they were symptoms of H2S. I
21 had a headache, my synovial joints hurt, I had running
22 water diarrhea, I had running clear mucus from my nose,
23 and I was shaking, and I was very, very frightened.

24 I called the police department and they said,
25 they have a small problem at PGV.

1 I said, Small problem my A.

2 And he said, Look, lady I told you they have a
3 small problem at PGV. And he hung up in my ear.

4 I want this EIS and its scope to include the
5 wind drift -- the trade wind wind drift from PGV to an
6 8- to 10-mile radius to the coast. Because while PGV
7 was exhibiting venting, the blowouts, well cleanouts, we
8 were sick.

9 And then when I researched H2S poisoning, I
10 realized we have to have studies for low-level,
11 long-term H2S poisoning and all the rest of the --
12 (Applause.) -- particle matter that PGV is expelling.

13 I want to clear up something that was said in a
14 county council meeting recently by Mr. Michael
15 Kaleikini, the plant manager. When Mr. Kaleikini was
16 asked -- we've been having complaints of some of the
17 residents that their houses were shaking because of PGV
18 and the drilling. I was in the house that shook. I was
19 visiting my friend Aurora Martinovich because I wanted
20 to check up on her story that her house was trembling
21 during drilling procedures which went on for 120 some
22 days. Their permit was originally for 45 days of
23 drilling. I sat in that house and a quarter of 6:00 it
24 started shaking.

25 So I asked Larry, who is living with Aurora

1 Martinovich, and Aurora has been relocated since then,
2 thank God. And Larry said it happens every night, they
3 step up their drilling.

4 So when Michael Kaleikini was asked about this
5 by Rick Porter (ph), our council -- and I want EIS
6 people to understand this because this is why we do not
7 trust Ormat.

8 Michael said, Well, there are papaya farmers
9 around here, and maybe it was their bulldozers. There
10 are no papaya farms within that close vicinity of that
11 house and no papaya farmers use bulldozers. This is one
12 of the lies of the many lies we've heard from Ormat.
13 Please help us. (Applause.)

14 FACILITATOR CHANG: I have Gregory Smith,
15 Martin Blackwell, and Galen Kelly.

16 GREGORY T. SMITH: Gregory Smith, Puna
17 makai. Thank you very much for coming out, and I'm very
18 happy to say as a word to, you know, the people that are
19 fighting this insanity, this greed that we are being
20 imposed on, is that, you know, the grid is dead. The
21 grid is gone. (Applause.) It's a rotting corpse.

22 The fact of the matter is that this company has
23 actually scooted itself into a corner it can't get out
24 of. No matter what they do in the future, your rates,
25 if you're silly enough to be on these companies'

1 services, if you call it that, you guys are going to get
2 higher rates no matter what they do.

3 The alternatives that have been mentioned
4 tonight are the wave of the future, particularly in the
5 way of biofuel, biomass. I mean, we have close to 200
6 times more farmland on these islands open because of the
7 old sugar industry that we actually need to actually
8 grow food. There is absolutely no conflict with food or
9 fuel in the state of Hawaii, none. Particularly with
10 our year-round growing.

11 The fact of the matter is four percent of our
12 farmland on this island would only have to be used to
13 take care of all our energy needs. The brother
14 mentioned, you know, the hemp. Well, there are hundreds
15 of different feed stocks that can be site specific,
16 specific to the islands, that could be used in biofuels.

17 If we used, for instance, the Brazilian model
18 -- which they do grow sugar down there. Yes, it's a
19 sugar mill, but it's not like the old sugar mills here.
20 What they do is not to produce just molasses and sugar,
21 they produce -- they're supposed to produce and they do
22 produce 2,400 of these sites -- these plants that are in
23 Brazil today, they produce alcohol and electricity. In
24 other words, these people have broken the back -- Brazil
25 has broken the back of the oil-archy in their country.

1 They have a thriving economy while the rest of the world
2 is dying economically right today. And that's the
3 point.

4 We have the bright future here. All we have to
5 do is get away from the corporate stranglehold that
6 we're in today, and we're doing it.

7 I've lived off power for 24 years. We've had
8 15 of these brownouts, blackouts and other crap that
9 HELCO has put on us. And guess what, my lights have
10 always stayed on, and I'm solar. Thank you. (Applause.)

11 FACILITATOR CHANG: I have Martin
12 Blackwell, Galen Kelly, and then Jim Albertini.

13 MARTIN BLACKWELL: Aloha everybody, my name
14 is Martin Blackwell. I drafted the resolution senate
15 for change. Mahalo for you being here this evening.

16 There's an old saying, The only thing constant
17 is change. That being said, that means that change is
18 the one thing that we're always dealing with, and it's
19 always creating some level of stress for us. It's what
20 our stress response is attached to. If we're not
21 willing to stare that in the face, then we'll make
22 horrible decisions for resource management and we are at
23 risk of blindly going forward doing things that are not
24 in the long-term comfort and best for the community,
25 just for the immediate comfort in the moment.

1 If this is going to change, we're all going to
2 have to change the way we look at it and the way we
3 approach it -- energy and our own selves and always be
4 willing to look at ourselves and our struggle with
5 change.

6 So those people in Puna who are struggling and
7 reacting to this understandably, we have to be aware
8 that the powers that be are just seeing it as your own
9 overreaction to change. Change is the common language
10 where we will build a bridge.

11 So imagine change is in the room with us right
12 now, and this is what change has to say, from the eyes
13 of change. Hopefully it won't go over my three minutes,
14 but hopefully it will be worth it.

15 From the eyes of change. I see you adults
16 struggling to know what is best. Be careful not fight
17 like children claiming that what they have is better
18 rather than sharing your toys and personal perceptions.
19 Try not to shoot down each others' views out of fear
20 rather than combining them in the middle for optimum
21 resolution and results.

22 Be careful not to claim to know with certainty
23 what you cannot. As you can all be blind to your own
24 need for comfort and how it rules you. You may claim,
25 Don't worry, this is best for the community. Yet

1 whatever you promote is best for you and your specific
2 family and not necessarily for the greater community.
3 You may say, Oh they are just overreacting and resisting
4 change.

5 Maybe. Maybe not. Perhaps you are selfishly
6 unaware of your own selfish fear-driven greed for
7 comfort. Maybe their fear is valid that the greater
8 community is changing not for the better but ultimately
9 for the worst.

10 Perhaps there is a better way that you have yet
11 to see as you are perhaps blinded by knowing. Were you
12 ever wrong? You did not think so at the time. What if
13 this is one of those times?

14 You cannot know. You cannot see the future.
15 You can easily blindly roll forward like a moth into the
16 light seeking excessive comfort, and when their wings
17 are burned it is too late. You larger groups or
18 corporations can go blindly into other areas to develop
19 and end up frequently raping the resources for your own
20 unaware selfish fear-driven greed. The families may
21 overreact, resisting to change and the fear of
22 uncertainty it delivers. You may under-react unaware
23 that what you do is only best for you and your family as
24 the greedy addiction to escaping discomfort destroys the
25 very greater community you plan.

1 I'm going to cut it short because I already
2 have the one-minute thing held up. So I'll get to the
3 point, I guess.

4 An open mind is willing to doubt everything it
5 believes and believe everything it doubts. Otherwise,
6 if you cannot answer with an open mind, leave the
7 process. You are crippling yourselves and your family
8 and your community. Hold yourself accountable to your
9 deeper insecure self. Unite in the middle to share
10 perceptions as if they may or may not be correct. Go
11 forward open to change.

12 Remember to breathe together. And if the
13 tension rises, be quiet immediately. Breathe and let
14 the tension, fear and anger subside. The truth only
15 comes in the calm between the waves of change. I will
16 be watching. Remember and unify, for united we stand,
17 but divided we fall. Mahalo. (Applause.)

18 FACILITATOR CHANG: I have Galen Kelly, Jim
19 Albertini, and then Molly McLaughlin.

20 GALEN KELLY: Aloha, I'm Galen Kelly.
21 Uncle Sam, are you still here?

22 AUDIENCE MEMBER: He just left.

23 GALEN KELLY: For some of us it's been a
24 long night. So Alikapu, are you here?

25 Well, to any of our kapuna who are here, I'd

1 like to say my heart and prayers are with you and that I
2 hope that one day all of the outcome of these decisions
3 will be again in your hands where they belong because of
4 your wisdom and your experience that's hundreds and
5 hundreds of years of knowing how to manage the land and
6 the resources here without creating any suffering or
7 scarcity.

8 I would also like to say thank you to Jim
9 Albertini and Robert Petricci for letting me know the
10 urgency of this issue and making me want to fight harder
11 especially for our keiki, so we can let them know we're
12 leaving them a safe and beautiful world.

13 I'd like to be on the record in complete,
14 profound opposition to geothermal. I see it as
15 anti-aloha (applause), anti-pono, and very scary.

16 I also want to add beyond that in terms of the
17 presentation here tonight, one of the suggestions was
18 for smart grids. If you have any experience with
19 studying U.N. Agency 21, smart grid comes out of there.
20 They're trying to implement it globally in communities
21 everywhere, and it basically is supposed to be
22 monitoring our carbon footprint and our energy usage.
23 And what it does do besides that is it creates a control
24 grid that is very into surveillance and invasion of
25 privacy.

1 It will start out with wanting to know how many
2 times a day you flush your toilet and when you're lights
3 are on and when you do the laundry, but the
4 repercussions from that can go into greater spying and
5 greater invasion of privacy.

6 It's being implemented first for what they call
7 smart meters, which are now being proven to be very
8 toxic and dangerous. Some are even blowing up. So
9 there's a whole-refuse-the-smart-meter movement going
10 on. If you're not aware of that, try to get informed
11 about it and refuse the smart meter. It's what some
12 call a form of global totalitarianism. And what it does
13 is it makes our rulings come from a half a world away at
14 the U.N. deciding our policies and it kills local
15 self-determinism. And so we have to be really careful
16 of that.

17 And I just want to say in closing that I want
18 to be able to tell my grand babies that I fought, and I
19 did what I could to stop the poisoning. God bless you
20 all. (Applause.)

21 FACILITATOR CHANG: Jim, and after Jim is
22 Molly McLaughlin, and then Pua'ena Ahn.

23 JIM ALBERTINI: Aloha. Like many of you,
24 I'm a Puna resident, and for the last 32 years I've been
25 living off of the grid on small-scale solar power. And

1 one of the first things I learned was that putting money
2 into efficiency is a much wiser choice and always
3 increasing energy production. That's number one.

4 Number two, I think the county and the state
5 needs to declare immediate moratorium on every aspect of
6 this geothermal and the wind cable systems (applause) --
7 that are being planned for this island and Lanai. Stop
8 that process until the whole EIS thing is complete.
9 Otherwise, the cart is before the horse.

10 Number three, the county and the state should
11 require bonding for the damage that PGV admits can be
12 done. In the earlier environmental studies they said a
13 major earthquake could shear off the wells causing
14 massive blowouts requiring a permanent eight-mile
15 diameter evacuation zone with the real estate value of
16 over a billion dollars.

17 PGV told me that their current insurance policy
18 is 25 million. So what that means is that the taxpayers
19 will be stuck holding the bag when Ormat leaves Hawaii
20 after a major disaster.

21 Point four, I hope you are aware that HELCO's
22 parent company is HEI, Hawaii Electric Industries, and
23 the president and CEO of HEI is Constance Lau. And the
24 Bloomberg Businessweek disclosed that her annual
25 compensation for the year 2011 was \$5,296,000. That

1 makes every ratepayer a contract slave laborer for the
2 obscene salary of the electric company's CEO.

3 (Applause.)

4 Point five, one of the major electric consumers
5 in the state is the U.S. military. It occupies the
6 independent nation of Hawaii, and they've been pushing
7 for massive taking over of ag lands to fuel -- to create
8 biofuel for it's warships and bombers. I say not one
9 square inch of ag lands should go for biofuels to fuel
10 the war machines. (Applause.)

11 And the last point is a boiler point, and I
12 appeal to all of you, many of us here are non-Kanaka
13 Maoli, but we're blessed to live in this sacred place of
14 Hawaii. And we need to be reminded that the native
15 people's religion has Pele as its deity. And we're
16 seeing the international news today, that when people
17 make films that disrespect other people's religion and
18 when we drill into people's deities, we're asking for
19 trouble. I ask you all to support the native people in
20 respecting their religion. No geothermal drilling.

21 Pau. (Applause.)

22 FACILITATOR CHANG: Molly McLaughlin, then
23 Pua'ena Ahn and Ronald Fujiyoshi.

24 MOLLY McLAUGHLIN: Aloha, thank you for
25 being here. I am Molly McLaughlin, and I live in Puako,

1 I live on the Kona side, south Kolaha. So I'd like the
2 DOE, the EIS to know, everyone to know that it isn't
3 just Puna here today. This is the entire island.

4 I agree with what everyone has said tonight,
5 and I am in opposition to the geothermal project in Puna
6 proposed.

7 I am here out of love. Everybody here tonight
8 is here for love. Nobody is hateful. I love all of you
9 that I'm speaking to now, the DOE as much as I love
10 everybody in this room. I am here because I love the
11 land, and I know that this project is not in the highest
12 good. We all know that. If you are in support of this
13 project, you do not have all the facts or you are lying
14 to us and lying to yourselves. (Applause.)

15 You may not even know that you are lying to
16 yourself. You have told this lie so many times. I ask
17 you to look within your heart deeply. It is clear that
18 this is not the best option. I live on the side where
19 solar panels can fill the desolate land. I live on a
20 side where HELCO took the windmills, bought that company
21 and wiped them out. We know this is not the best. We
22 know this is about money, this is about greed. It's not
23 sustainable.

24 Thank you very much for listening. Please make
25 the right decision. Thank you. (Applause).

1 FACILITATOR CHANG: I have Pua'ena. Is
2 Pua'ena Ahn here? Right. I apologize. And after
3 Pua'ena, is Ronald Fujiyoshi, and then Lisa Hildwine.

4 PUA'ENA AHN: First of all, Dawn, I'd like
5 to commend on your pronunciation of my name. Nine out
6 of 10 butcher it as much as the geothermal company has
7 butchered Puna.

8 Okay. For the most part I'm going stay away
9 from the geothermal issue because fortunately residents
10 from the Puna community have been coming out and showing
11 opposition to this issue. And, of course, this EIS
12 scoping and all this has to do with more than just the
13 geothermal issue.

14 However, what I would like to recommend to the
15 -- I don't know if you guys are committee or what, but
16 to the EIS people, is that, for one thing, I'm glad that
17 so many did people touch on this, and I'd recommend a
18 more stringent definition of what is considered to be
19 clean and renewable. Geothermal being the obvious one,
20 and then biomass, you know, a wood stove; a really,
21 really big wood stove. Come on, guys. Okay.

22 But something that I am going to point out to
23 you is that over the course of your EIS, what you're
24 going to find is that there is an increased likelihood
25 of detrimental environmental impact from

1 industrial-scale energy production. Again, geothermal,
2 the wind farm on Lanai with the massive cable. And I'd
3 like to remind you folks that feasibility should be
4 synonymous with practicality.

5 Now, let's think about the practicality of, for
6 example, subsidizing micro turbines on every building
7 bigger than two stories. You know, at least one tiny
8 little solar panel for every house, and that in itself
9 should at least match or offset to some degree what
10 these industrial-scale energy producers would be
11 spending on -- geez, I mean, think about how massive
12 these turbine powers are. Let's be practical here.

13 Let's see. What else here? Well, you know, in
14 the ending of the presentation that I did catch, I did
15 notice that, you know, these folks are going to give a
16 fair shake to everything. You know, but I have to
17 honestly say that, you know, any of these profit-driven
18 industrial utilities, they don't deserve a fair shake
19 because, back to my original point, you're going to find
20 an increased likelihood of detrimental impact.

21 And my last point that I want to make to you
22 folks, is that you do exercise caution in whatever
23 recommendations that you make because the consequences
24 of these recommendations, these public -- they are far
25 reaching.

1 The geothermal issue started 25-some odd years
2 ago. The issue only just came back up within the last
3 six months, and people are still harping on it because
4 it's still affecting people. And yes, the environment,
5 the people who live here are part of the environment,
6 these are the endangered species. I mean, the limited
7 amount of land that we have to deal with here, I urge
8 you people and I -- I'm sorry, you people. All due
9 respect. But I sincerely hope that you folks are here
10 to do the right thing because that's what every single
11 person here has been imploring you, whether or not it's
12 regarding the geothermal issue or the wind issue or the
13 cable issue. We really hope you folks are here to help.
14 And not just -- well, essentially not just do what all
15 these other public officials that we've been dealing
16 with in the last few months have been doing. Don't sit
17 here and pretend like you're listening, but to go back
18 and do what the master's telling you. Thank you.

19 (Applause.)

20 FACILITATOR CHANG: We have Ronald
21 Fujiyoshi, Lisa Hildwine, and Sara Steiner.

22 RONALD FUJIYOSHI: Good evening, my name is
23 Ronald Fujiyoshi, and although I am a Christian, I'm a
24 proud member of the Pele Defense Fund. (Applause.)

25 Although I served in Asia as a missionary of

1 the United Church of Christ for 20 years, I am retired
2 and am part-time farmer of a small macadamia nut farm.
3 I feel compelled to testify, although I have not yet
4 decided whether to submit written testimony for this
5 hearing.

6 Although I must believe that you who are sent
7 to listen to us are good individuals, I hope you
8 understand and take seriously the cynicism that you have
9 heard especially from Kanaka Maoli. I for one do not
10 believe the United States of America has any
11 jurisdiction here in Hawaii. (Applause.)

12 We are critical because we think at the end of
13 this whole process huge funds will be given to
14 corporations whether based in Hawaii or other parts of
15 the world to make large profits at the expense of
16 damaging the beauty of Hawaii.

17 Today I want to make a statement on the big
18 picture. We've heard a lot about peak oil especially
19 from my friend Richard Hau. I think he's my friend. We
20 shake hands when we meet. Peak oil is the point in time
21 when the maximum rate of petroleum extraction is
22 reached, after which the rate of production is expected
23 to enter terminal decline.

24 Today I want to talk about peak true Hawaii.
25 Peak true Hawaii, I mean, the point in time when the

1 best of what we know of Hawaii has been reached. The
2 best of Hawaii is defined in a lot of ways.

3 One, what draws us and others to live and visit
4 Hawaii. Two, the number of endangered species in terms
5 of animal and plant life. Three, the beauty of Hawaii's
6 nature. Four, the affordability of homes to purchase or
7 to rent. Five, the Hawaiian culture and spirituality as
8 reflected in its people, the Kanaka Maoli.

9 These are just a few ways to define the best of
10 Hawaii, and EIS or environmental impact statement should
11 be based on how much a project destroys true Hawaii.
12 Although this is debatable, I for one believe we have
13 passed peak true Hawaii. Therefore, any EIS done here
14 in Hawaii must be done very carefully to help true
15 Hawaii. If not done carefully, it would be what us
16 locals call shabbai, lies or deceitful actions. Thank
17 you. (Applause.)

18 FACILITATOR CHANG: Lisa Hildwine, and then
19 Sara Steiner, and Bob Ernst.

20 LISA HILDWINE: Aloha, my name is Lisa
21 Hildwine, H-i-l-d-w-i-n-e. And I'm extremely grateful
22 to be standing -- sitting here today. I am in the
23 process of recovering from a fatal event, a pulmonary
24 embolism and a DVT with severe anemia. On 11/11/11
25 while in the hospital I actually crossed over to the

1 other side but choose to return to this beautiful home
2 here, heaven on Earth to witness the birth of my third
3 grandchild born 10 days later.

4 This recovery process has been slow and
5 painful. I lost my job, my car and my home due to this
6 disease. I'm now living in a tent, my career of 27
7 years as a medical transcriptionist is no longer
8 something I'm able to do. I worked for 22 years from
9 home, and prior to my pulmonary embolism the quality of
10 my world began to suffer where I began receiving
11 warnings. I have a reputation for being the best in my
12 field. You can understand that, and now I can't even
13 count change.

14 Through it all it became evident that my
15 disease process is multi-dimensional. Not that I'm
16 going to go too much deeper into my process. It's very
17 painful. My spine is turning into mushy structures, my
18 bone marrow is depleting, and too many things to mention
19 here.

20 In my field, I have worked with some of the
21 greatest physicians in the USA. Part of my work
22 involved research and helping autistic and special needs
23 children. When I got sick, when I'm sick now, there's
24 no reason for this because I have lived a very healthy
25 lifestyle. When I was 16, trained and started a great

1 nutrition practice and physically active and living a
2 sustainable life here in paradise including growing my
3 own food, living by the grace of the sun and the rain.

4 My chosen path to return to our original being
5 of living on this Earth. The only possible cause to
6 what happened became an environmental issue. I happen
7 to live one mile from the PGV territory and Ormat. I
8 call it ground zero paradise.

9 Through my knowledge of medicine and my
10 instinctive self as well as my environment, I'm
11 subjected to mitochondrial disease where I am suffering
12 mitochondrial disease. Many my community members are
13 suffering with mitochondrial disease. Not to educate
14 you on this issue, I invite all of you to research this
15 for yourself.

16 What I'm here to testify is that I have a great
17 commitment and love for the community of Puna and for
18 this island and for the land and for the Earth and all
19 her beauty. I realize that the issue at hand is from
20 Ormat, and I'm asking for help for our community to get
21 independent health studies, independent technology
22 studies, and independent agricultural studies to prove
23 that PGV is not operating within safe design.

24 They're not going to do it for us, people.
25 We're going to have to this for ourselves. This is a

1 fight against the government and its control. We have
2 to do something.

3 Being in the medical field and having the
4 Department of Health turn their backs on us angered me
5 to the point of making a change. Due to my post on
6 their site, I received an ugly email from a man named
7 Andrew Jenson (ph). On that site you can see his anger
8 and denial of the situation, yet the private email he
9 sent me was long and very demeaning including stating
10 that the problem with Hawaiian spirituality is that it
11 was created in a void, calling me uneducated, white
12 entitlement, et cetera, because I stated on the PGV
13 website the drilling is at the heart of Pele. I know I
14 read that on the PGV website. He said, You will make
15 you -- he came up with all these statements. Well, it
16 doesn't say that anymore. It says drilling on the Big
17 Island. So a change has been made. And I'm grateful
18 for that because there were other people who were
19 drilling into the heart of Pele, and it has been
20 changed.

21 And I have interviewed people who have worked
22 in the '70s when they were drilling, and it was over at
23 Lava Tree Park where the land was raped, they're now
24 dumping into the ocean. This is the beginning.

25 Anyway, to get a health survey, that is going

1 to take six months after any approval of funding. I
2 propose that you get back and work right away on healing
3 our community. What we need to heal are innovative
4 treatments. There is a cure for this -- not necessarily
5 a cure. We can't reverse the damage that's already been
6 done, but we can start now by healing ourselves. It's
7 going to take too long -- it's too late to wait for them
8 to help us. So we have to bring it in.

9 I also make a cry for testing for outside
10 independent resources. If they want to come in here,
11 let's get an outside source to do something about it.
12 And we're going to have to fund this ourselves, people.
13 We're going to end this. This is where I stand. We are
14 the guardians of Eden, and we are the ones to make this
15 change. And taking responsibility for yourselves, we
16 become the government. (Applause.)

17 FACILITATOR CHANG: We are on No. 49, and
18 we've got, I think, a total of 72. So the next person
19 is Sara Steiner, Bob Ernst, and Cindy Heberton.

20 SARA STEINER: Aloha, my name is Sarah
21 Steiner, and I'm here -- I'll be really quick tonight.
22 And I just want to say that I think that the Department
23 of Energy is here on this island because the military
24 needs more energy, and they're planning massive
25 geothermal and other biofuel development like Jim

1 Albertini mentioned for the warships and planes, and you
2 need the power to send to Oahu and to Pohakuloa. And I
3 think the Department of Energy is planning to pay for
4 the cable, and that's why you guys are here tonight.
5 That's why you're going to be doing this EIS.

6 And I want you to know that during your PEIS
7 study, I want you to place the health and welfare of
8 human beings above or at least equal to the endangered
9 species, of birds and bugs and animals and national
10 parks and far above your need for the war-mongering
11 military expansion. (Applause.)

12 I feel that I speak for most people here
13 tonight in saying that we the people will not stand by
14 and let the federal government, big developers and the
15 military ruin our islands. Thank you. (Applause.)

16 FACILITATOR CHANG: Bob Ernst and Cindy
17 Heberton, and then after that is Cindy Sellers.

18 BOB ERNST: Aloha, my name is Bob Ernst.
19 In case you have not heard, we as the ratepayers pay the
20 highest kilowatt rate in the nation, maybe the world.
21 Connecticut, a suburb of New York City, is the second
22 highest, but HELCO is 30 percent higher than that.

23 Our transportation fuel, because that's on your
24 agenda also, is also some of the highest in the country,
25 substantially high. This is my two-cent PowerPoint. I

1 didn't have \$2 million to do a PowerPoint. So this is
2 my two-cent. It was the screws I had to put in here to
3 hold the wood together.

4 This is our pre-EIS. This is our spreadsheet.
5 First our goals. You have the goals right here, very
6 prominently, our goals and positions.

7 We want the least installation cost for our
8 energy. We want the least operation cost for our
9 energy. We want the least environmental footprint for
10 our energy. And HELCO has told us and we agree, retire
11 the fossil fuel power plants. This is common sense. It
12 didn't take a lot of consultants to come forward with
13 these goals and objectives.

14 Second, our all-important conservation element
15 because conservation would be the biggest power and
16 energy saver on the island. And we are looking at, of
17 course, water heating, whether it be solar, instant or
18 the tutu. Does anybody know what the tutu is? It's
19 named after my wife. It will cost you less than \$30.
20 Tutu is a hot-water fanatic. So it's got to be done
21 right, and this does it, and I'm not going to waste time
22 on it tonight, but for less than \$30 you can cut your
23 bill tremendously. Just think instead of 24/7, less
24 than one.

25 Refrigeration, freezer, lighting and

1 electronics are the conservation issues that we're
2 dealing with.

3 Okay. Over here it says 70 percent, 30 percent
4 efficiency, 20 percent renewable. That's not
5 acceptable. We're looking at 100 percent. (Applause.)

6 In closing, if anyone wants to help with our
7 EIS comparative analysis, please see me. And we cannot
8 wait two to three years for a \$2 million EIS. Mahalo.
9 (Applause.)

10 FACILITATOR CHANG: Cindy Heberton and then
11 Cindy Sellers, and I am so sorry. I'm having a hard
12 time reading No. 50. Gretchen Ellis?

13 AUDIENCE MEMBER: Graham.

14 FACILITATOR CHANG: Graham Ellis is No. 54.
15 Let's do Cindy first.

16 CINDY HEBERTON: Thank you so much for
17 coming. We were so disappointed when the Department of
18 Health couldn't come to a county council meeting because
19 their budget didn't allow it. Something like that. So
20 we appreciate it. You've been doing this all week, and
21 you've got another week of it.

22 Everyone here has already said everything.
23 I've live on Pohoiki Road, Lower Pohoiki Road, for about
24 a year. It's absolutely stunning. I thought it's the
25 most beautiful place. I came down lower Leilana and

1 turned on to Pokohiki one Sunday afternoon, the sun
2 coming through the trees, and I'm like, Yeah, this is
3 nice. I lucked out and was able to find a place about a
4 little less than two miles from the plant.

5 I'm tough. I'm not a whiner, but, you know, I
6 get goopy eyes in the morning. I can hear the power
7 plant about two miles away on up Pahoa. So I'm really,
8 you know, not suffering fortunately. But a friend of
9 mine is. She lives right -- she's right near the power
10 plant, and she can't live -- sleep in her house anymore.
11 She sleeps at the bottom of my quarter mile driveway.
12 She can't come to my house 'cause she can still hear it.

13 We hear so often about the delicacy of this
14 land, the precious ecosystems. I think there was more
15 of an uproar over croaking frogs than there is over
16 geothermal. Oh, my God, we've got get rid of them.
17 This is very delicate land. We have to be very careful
18 with what we do. Anything man made is not forever. The
19 island is forever.

20 The technologies continue to change and
21 improve. I think by the time they get geothermal down,
22 it will be an obsolete technology. If all hell breaks
23 loose, and we are going to -- I was going to be short,
24 wasn't I?

25 I have a mic in my hand. My first time

1 talking. Sorry. If this world -- if we run out of oil,
2 which we will in some time, you know, we will run out of
3 these things, I think that we're perfectly suited for
4 taking care of ourselves just fine anyway. Fine, just
5 do the oil embargoes. We don't care. We're set up
6 better than anybody else. We already take care of
7 ourselves. Money doesn't really exist. We live on a
8 barter system. And we have to consider what is man made
9 is not forever and that aina is. Thank you.

10 (Applause.)

11 FACILITATOR CHANG: Thank you. I've got
12 Graham Ellis, Danny Li. I do not want to miss this
13 person, but I'm so sorry. I can't read the handwriting.
14 If anybody can recall and you signed up No. 53, it looks
15 like a Ralph, Robert. Is that you, Robert?

16 AUDIENCE MEMBER: No.

17 FACILITATOR CHANG: Okay. Well, if we
18 don't call you, that probably because I can't read your
19 name.

20 So I've got Graham Ellis, Danny Li, and Robert
21 Petricci.

22 GRAHAM ELLIS: Aloha, my family and I have
23 lived on solar power for 28 years, and I'm here to share
24 some solutions. And it's a high quality of life that we
25 have. Some observations and considerations I'd like to

1 share with you is that when we started solar power it
2 was about \$5 a watt, and it's now \$1.25. Committing
3 back then was a pretty easy process. Today it's not
4 easy at all. The rules and regulations have changed
5 considerably. It's considerably more expensive today.

6 With solar power you don't need any health
7 studies. We don't need an evacuation plan.

8 So I'd like to ask the Department of Energy to
9 consider in their environmental impact statement, why is
10 it that the Germany has 50 percent solar power? Why is
11 it that Vermont and Colorado allow solar power on
12 residential facility houses up to five KW without any
13 permits at all? Why is it that Oahu that has the same
14 amount of sunshine as the Big Island has so little solar
15 power? Thank you. (Applause.)

16 FACILITATOR CHANG: Danny Li, Robert
17 Petricci, Kerri Marks.

18 DANNY LI: Aloha, I'm Danny Li. I live in
19 other Keaau. I have two quick points, I think.

20 Number one is I support the Life of the Land
21 comments made to this group. And the main point is
22 that, again, I think Henry had mentioned a little bit,
23 is that the grid system is an old-fashioned, 19th
24 century centralized power system that doesn't need to
25 exist anymore. Okay. (Applause.)

1 We need decentralized power, not only in terms
2 of power but also political power. But that's another
3 story.

4 But the second point I want to make is that,
5 you know, in this election season all we hear about is
6 there's no money for anything, right, for schools, for
7 health, anything. Of course, the military always gets
8 it and the banks always get it, right?

9 Since 2008, and this is a conservative estimate
10 -- and you can ask economists, they have bigger numbers,
11 at least \$16 trillion have been loaned interest free to
12 the banks, 16 trillion. That works out -- you do your
13 own math. I did it already. At per capita, that means
14 we are already on the look for \$50,000 per capita, per
15 man, woman, and child. We've loaned it out at
16 zero percent to the banks. The top less than one
17 percent. Okay. 50,000 per man.

18 That's a solar PV system, residential system,
19 with -- back then everything is way less than \$20,000
20 for a system. It's a no-brainer. Why don't we build up
21 to 99 percent? (Applause.) And that's my proposal.
22 Mahalo. (Applause.)

23 FACILITATOR CHANG: Robert Petricci, Kerri
24 Marks, Matthew Yarberry.

25 ROBERT PETRICCI: Aloha. First of all, I

1 want to thank the community. I want to thank all the
2 people that came here tonight. I am in awe of the Puna
3 community and of the Big Island community. They don't
4 see this where they go anywhere else. Thank you all
5 very much. (Applause.)

6 You know, the power that we are creating is, I
7 hope, something that we can build on that we can use to
8 form energy policies for the island and for the whole
9 state.

10 So the state legislature and the governor have
11 been steadily and deliberately stripping us of your
12 voice and any kind of home rule legislation such as Act
13 97 and Act 55 and senate resolution or bill 25, and to
14 speed an easement process for projects like geothermal
15 to exclude us with no public comment, and I think DOH
16 seems to be participating in that -- I mean, the
17 Department of Energy seems to be participating in that.

18 With the Department of Energy money being
19 thrown around in amounts of loose money looking for a
20 place to land, so I would suggest we need to redirect
21 that money to help people, like what Graham was talking
22 about, with the upfront cost of independent solar
23 systems.

24 The biggest obstacle that we have to solar is
25 that we need upfront money. They've got millions and

1 millions of dollars for these guys. Ormat got in 2009
2 \$8 millions in grant money to do exploratory from the
3 Department of Energy. There's millions of grants now.
4 I was talking to -- I'm sorry, I forgot the name -- Jim
5 earlier, millions of grants through the Department of
6 Energy. All this exploration, we're paying for it.

7 But the poor people out there that have created
8 a sustainable community, I mean, we don't have a grid.
9 We all live on solar, we farm, we use biodiesel. We are
10 doing exactly what the state says they want to see.
11 They want a sustainable community, energy efficiency.
12 We're doing it.

13 But they won't come out there and look at us as
14 a model and talk to us. Instead they want to come out
15 there and destroy it. They want to come out there and
16 build industrial power plants that we don't need. I'm
17 never going to get through this.

18 So I'm requesting a complete accounting of the
19 Department of Energy grants for geothermal in Hawaii.
20 I'm requesting a study of the effect of the Department
21 of Energy grants that have had on geothermal starting
22 with the HGPA, the notorious experimental plant that has
23 made so many people ill.

24 Is the Department of Energy responsible for
25 those harms by funding these projects?

1 In 2009 the Department of Energy gave PGV over
2 \$8 million in grants. Don Thomas, who has decided
3 against testifying tonight, has secured millions more in
4 grants. All the companies looking to do exploration
5 here are looking for federal grants. There is money
6 from the DOH -- Department of Energy, right now. I want
7 to where it is, I want to know how much it is, and I
8 want to know in this EIS.

9 In 2011 Ormat received \$528 million in loan
10 guarantees for TARP funds. They have already defaulted
11 on \$98 million of that. I mean, we could power this
12 whole island for the money they've giving Ormat. And,
13 you know, come on. (Applause.)

14 Well, I guess my time's up, guys. (Applause.)
15 And just keep doing what you're doing. You know what?
16 We're going to win this thing. I don't care what they
17 say. Just thank you all for coming. (Applause.)

18 FACILITATOR CHANG: Thank you. And again,
19 if you want to provide more comments, please send them
20 in.

21 So we have Kerri Marks, and then we have
22 Matthew, and then Ross.

23 AUDIENCE MEMBER: We have some more in the
24 back.

25 KERRI MARKS: You've got to write in all

1 caps, everybody. Print in all caps when you're signing
2 up on the signup list. Words of the wise. Thank you,
3 and thank you. And I would also like to thank you for
4 being here. If you can't tell, Hilo loves a good
5 meeting, so please come back. And we will, too. Well,
6 we sent out many emails from many different points, and
7 I see a few people got one. So good job, guys. Aloha.

8 I didn't say that yet. Hi everybody. Okay.

9 Well, geothermal's bad. You got an earful of
10 that already. Cable is bad. Okay. I hope you hear
11 from every single outer-lying island that we do not want
12 to be Oahu's battery pack. (Applause.)

13 That's pretty much what's going on here
14 tonight. It is absolutely imperative that each island
15 take care of their own needs. Okay. We will not be
16 subjugated by Oahu. It's not going to happen. Okay.
17 So a really good tip for you guys is to not study the
18 inter-island cable at all. It's a waste of money.

19 (Applause.)

20 I will guarantee half of these people will
21 throw themselves into the bay before you hook this cable
22 up to this island. It's not going to happen. So let's
23 just cut that short. Unless, of course, you're going to
24 study small cables, little ones, they go from buoys to
25 each island. I'm a big fan of buoys. Buoys is firm

1 power, people. Okay. It's clean. It's awesome. It
2 doesn't trap fish. In fact, fish like it. Fish hang
3 around it. So then fishermen like it. People like
4 buoys. Fish like buoys.

5 What else was I going to say, Dave? Is that
6 enough? Don't subjugate the outer island. Don't build
7 a stupid cable. No cable, no cable, no cable, no cable,
8 no cable. How much time do I have? Aloha. (Applause.)

9 FACILITATOR CHANG: Next we have Matthew,
10 Ross and Beverly. Matthew? Ross? And then Beverly,
11 and then Frank.

12 ROSS ARMETTA: Aloha, everyone. I've
13 happen to have a background, I'm an electrical
14 contractor, and I do solar systems, and I work with all
15 kinds of alternative energies, and I've studied this in
16 physics labs, I quantified the numbers, I have a pretty
17 good understanding, I've worked years on biofuels and
18 research and such. I came into this with very neutral
19 perspective because I have enough science training to
20 know that you try to look at things neutrally, quantify
21 them, study them and, you know, give it a fair shot.

22 I believe I've given it a fair shot, and I can
23 tell you I think it is not a good decision to go with
24 geothermal in this case for a lot of reasons. The
25 technology is not there, at least at this point. We're

1 putting it -- or proposing to put it in an incredibly
2 volatile and dangerous area, not only for the people but
3 amazingly enough for the project itself. It just
4 doesn't seem sensible.

5 We're also talking about another centralization
6 of power, corruption and money, because let's face it,
7 this is what's going to happen. This is what it's
8 probably primarily all about.

9 There are many alternatives including solar
10 with nonconventional application, hydrogen, pumping and
11 storing the things with water. There's many ways we can
12 do this. It doesn't just have to be traditional solars
13 or batteries and grid ties. There's a lot of things we
14 can do.

15 I also would like to say that to you,
16 commissioners, please, okay, I ask you to keep this
17 transparent, fully listen to the people, communicate,
18 let us follow the money, let us see what's going on, let
19 us see the contracts, and please, I beg you, quantify
20 the numbers, give us the cost for fuel, give us the cost
21 per watt, give us the upgoing costs. And I know these
22 things change and it varies. But give us numbers, okay.
23 I know that you may or may not have that ability, but
24 please -- because I know for a fact from my studies
25 numbers tell the truth. The rest of it is BS. It

1 really is. You've got to look at the numbers, and then
2 yes, there are some things we can advance and go forward
3 on.

4 But again in summary, please consider us. This
5 island, I believe, is being walked over and it seems to
6 be -- I know it's a good idea. We have a problem. We
7 need to solve it. It can be done. And we can do it
8 with respecting our people, their health and our land.
9 Aloha. And thank you for taking our testimonies.

10 (Applause.) Ross, R-o-s-s, A-r-m-e-t-t-a.

11 FACILITATOR CHANG: Okay. The next is
12 Beverly Frederick, Frankie Stapleton, and this is
13 another one -- is it Walter or Water.

14 BEVERLY FREDERICK: I'm Beverly Frederick.
15 A lot's been said, and I'll probably be redundant. But
16 yeah, no big cable, no big cable, no big cable. It's a
17 waste of money, waste of money to even study big cable.
18 Makes me think PGV needs -- now, that's a California
19 version -- HELCO, HEI is behind all of this when I hear
20 big cable because it doesn't make sense in any other
21 way.

22 So I'm looking at you person to person. I live
23 here. I love this island. I chose this lifestyle. I'd
24 rather live nowhere else and take care of myself.
25 Please leave us alone. Don't let them do this.

1 (Applause.)

2 We know it is about money. We know it is not
3 about saving any watts because we have the most
4 expensive energy with our geothermal already. So we
5 know it has nothing to do with saving money. It has to
6 do with certain people getting money and HELCO is
7 getting money.

8 So I beg you if you have to do this study and
9 you have to deal with it, deal with it honestly. You've
10 heard us all, and you've heard the stories of people's
11 health being destroyed. And I've heard it, and I've
12 seen it, and -- breathe.

13 Yeah, bad cable, bad geothermal. And really we
14 need to decentralized. We know, in fact, Puna, who's
15 maybe destroyed by geothermal, if this crazy plan goes
16 through is one of the most efficient taking care of
17 themselves, off-grid bunch of people that exist. So to
18 destroy that with this intention is so ironic I can
19 hardly stand it.

20 I put my whole life in being here as many of us
21 have, and I don't want to see it destroyed, and I won't
22 sit back and see it destroyed. And please do the
23 science for this, on the science that shows -- an
24 economics that shows how absurd and obscene the whole
25 idea is. Because if that doesn't happen, we'll take it

1 into our own hands. You know we will. Thank you.

2 (Applause.)

3 FACILITATOR CHANG: Next I have Frankie
4 Stapleton. Frankie here? Next -- and I am so sorry.
5 Is this Walter Grace, Water Grace, Hope L. Is Hope
6 here? Aurora. Aurora, and then after Aurora, I have
7 Larry Gering, and Phillip Kissinger.

8 AURORA MARTINOVICH: Hi, my name is Aurora
9 Martinovich, A-u-r-o-r-a, M-a-r-t-i-n-o-v-i-c-h. That
10 does not count on my three minutes.

11 Aloha, everyone. Thank you, thank you for
12 being here. And I start everybody out at 100 percent,
13 so I'm just going to trust that you're here in good
14 sense so I come to you in that way.

15 I have lived next to geothermal for 26 years.
16 I know PGV better than anybody on this planet, except
17 for maybe Mike Kaleikini, who is the plant manager, and
18 Mike's a decent person. I have three concerns that I
19 would like you to look into.

20 First, the most important in our Puna community
21 is the process that the people are involved in. And
22 we've been kept out of the process, we, the whole
23 community, in regards to geothermal. We recently had
24 meetings in Pahoa this past year when we heard about
25 this thousand megawatt cable project. And working for

1 real democracy, we took a vote on what was the issues in
2 regards to geothermal.

3 And the thing that got the biggest vote and my
4 biggest concern to share with you is consultation with
5 the indigenous people. These are people who have lived
6 here longer than all of us. And when I say
7 consultation, I'm speaking specifically to cultural
8 practitioners, people who still are carrying the flame
9 and the knowledge of ancient culture. And in any
10 project you're looking at on the Hawaiian islands, I'm
11 begging you to consult with practitioners, cultural
12 practitioners, first and foremost. Learn what the names
13 of the lands are, what they've been used traditionally.
14 Because that is -- I would like to say host culture, but
15 they haven't been a chosen host. They didn't choose to
16 have us come here. So let's -- if you're going to deal
17 with respect, let's deal with that first.

18 Specifically with geothermal, Pele, how does it
19 effect Pele? She's been in the middle of giving birth
20 to another island right now. How is it going to affect
21 the long-term relationship and the ancient knowledge of
22 relationship of humans to their boss.

23 The second was the community exposure.
24 Geothermal power plants have a 30-year lifespan. I'm
25 going to give you paperwork that talks about the

1 chemicals in geothermal. So please consider, whether
2 it's geothermal or big wind, the impacts that the people
3 will have over the lifetime of the power plants.

4 The third is -- this is my last one. The third
5 is corruption in regards to having money. So I would
6 beg of you, it is highly important for you to consider
7 the impact of Act 55 and the newly developed Public Land
8 Development Corporation that has basically given itself
9 the authority to develop geothermal power in Hawaii and
10 has absolutely no laws or restrictions involved in that.
11 So please look into that.

12 And I'm going to give to you some paperwork.
13 Oh wait, one more thing I want to say on the record, is
14 make life easy for you. You can request CDs from the
15 county council from all the energy hearings that would
16 go into things in detail. I would also recommend also
17 that you look up the recommendations of the State of
18 Hawaii Geothermal Action Plan. I have some information
19 here for you. But that will give you some history. I
20 know you said you're not looking into specific projects,
21 but you're looking into the impacts for the future. If
22 you don't look at what happens now, what happened before
23 you won't know.

24 And the last one I will give to you in regards
25 to corruption is the geothermal energy in Hawaii, an

1 analysis of promotion and regulations. It gives you --
2 basically it indicts all the people involved this,
3 Pirelli, cable, their son is the lobbyist that promoted
4 \$10 million for this cable.

5 Thank you and my address and phone number is on
6 here. As a 26-year residence, if you want to know
7 anything, I can tell you what it's like. (Applause.)

8 FACILITATOR CHANG: We have 20 more
9 speakers.

10 AUDIENCE MEMBER: More have signed up in
11 the back?

12 FACILITATOR CHANG: Oh yes.

13 AUDIENCE MEMBER: And there's a list of
14 back there.

15 FACILITATOR CHANG: I've got up to 77.
16 We've got that. So the next is Larry Gering, Phillip
17 Kissinger, and Nohaila. So Larry.

18 LARRY GERING: Thank you, and thank you DOE
19 for giving us this opportunity to speak up and take back
20 our island, to testify our input for the EIS analysis.

21 And thank you all for sticking around as long
22 as you have. It's been a grueling evening and in
23 particular, Greg, who is a city counsel and the other
24 mayoral candidate. Mayor Kenoi was here also. You
25 know, it really, really bothers me that events like this

1 to have county participation, county-elected officials,
2 where are they at? You know, they're not hiding.
3 They're just -- I don't know. They're bored or
4 something. But keep that in mind when you go to the
5 election on November the 6th. Those who participate
6 deserve to stay on, and those who don't, throw them out.
7 And that includes the state legislature also.

8 (Applause.)

9 Thank you. Efficiency, we can help a lot with
10 our energy costs for efficiency whether you're at home
11 or whether you're at work or whether you're at play. It
12 goes back to, I don't know, some administration says,
13 who was going around turning off all the lights? I
14 don't remember. Some president advocated that.

15 But it's the same thing here. If you leave a
16 room, turn the light off. Whether or not you're on
17 solar or whether you're on a generator or whether you're
18 on the grid, every time you turn something off it
19 doesn't cost that much more to turn it back on.

20 And a case in point would be, if you've ever
21 stopped to think about your water faucets in your house.
22 Some ingenious lobbyist a thousand years ago convinced
23 some legislative body to put the hot water handle on the
24 left side. Most of us are right-handed so we hold
25 something with our right hand, and we reach to rinse it

1 off with our left hand. Well, we automatically go to
2 that hot water faucet because it's easier than turning
3 -- or crossing over to the cold water faucet. And every
4 time you turn on the hot water tap, it uses more hot
5 water out of your tank and eventually -- I'm already up
6 to one minute. This is going to add up real quick.

7 So think about those things. And elect only
8 those officials who are consumer friendly. With all due
9 respect, solar is not the only solution. We need a mix
10 of biomass, solar, geothermal, maybe we could even talk
11 to PLDC, and some of you were at that PLDC meeting to
12 help purchase the HELCO and create a municipal utility,
13 convert it to propane. I don't think they have propane
14 on the island here. But we can convert it to propane,
15 which is more plentiful, cheaper and cleaner. I have a
16 lot more. Thank you for your time. (Applause.)

17 FACILITATOR CHANG: Okay. Phillip
18 Kissinger, Nahaila, Wai'ala, Dana Smith, Rafa, Nadia,
19 and Kim Pinkerton. So Phillip Kissinger Nohaila?

20 AUDIENCE MEMBER: Nohaila left.

21 FACILITATOR CHANG: Nohaila left.

22 PHILLIP KISSINGER: Hi. I don't mean to
23 offend anyone by bringing it up, but I don't believe
24 that it was mentioned earlier, with the Tokushima plant,
25 the disaster that happened in Japan. I don't think that

1 the government should allow any kind of plant, any kind
2 of facility that pollutes the environment on its own and
3 especially if a natural disaster occurs.

4 We should be focusing on things that don't harm
5 the environment and aren't at risk for people if
6 anything should occur especially on this small island.

7 And then Puna literally means spring of water.
8 And the geothermal plant that's in right now was
9 supposed to be a closed system, but everybody knows it
10 leaks, and they regulate themselves. So they say that
11 there's no leaks.

12 But even if it is a closed system, they use the
13 ground water here in Puna, and they put it back into the
14 ocean, and that water goes down to the ocean, all across
15 from Cape Kumukahi all the way down to South Point. The
16 water that reaches up on Mauna Loa comes down and goes
17 under water -- under the land and comes out on our
18 coastlines. It's fresh water, and all that water is
19 being polluted by the geothermal right now and is
20 continually polluted with the closed system that they
21 want to impose for all of their geothermal plants.

22 And the sun reaches every spot on the islands,
23 and I think that you should be focused on using solar
24 power on each individual island. Thank you.

25 (Applause.)

1 FACILITATOR CHANG: Nohaila, Wai'ala, Dana,
2 Rafa. After Wai'ala, I have Dana, and then Rafa, and
3 then Nadia, and Kim Pinkerton.

4 WAI'ALA AHN: Hi everyone, I'm Wai'ala Ahn.
5 I am going to read so I can say all of this. I am here
6 because I have lived 24 out of 26 years of my life next
7 to the geothermal plant, with the closest person my
8 family has fought it, worked for solutions along with
9 everyone else that's here, and it's good to see so many
10 people here.

11 My big question is -- I have a big question.
12 One of the main reasons why you're doing this and why
13 this is bad is because Oahu is suffering because of its
14 industrialization. But why do you want to industrialize
15 the rest of the islands? Because it's going to do the
16 same thing that you're doing there.

17 My family is from Oahu, and most of them moved
18 here because they don't want to be in that anymore. And
19 it's scary to think that you're doing that here. And I
20 know firsthand the effects of what geothermal does. And
21 if people tell you that they're for it and it doesn't do
22 anything bad, everyone I know that thinks it's not bad
23 is getting something out of it. I don't know what it
24 is, but they're getting something. (Applause.)

25 And I'm not opposed to them, but they are.

1 I can tell you firsthand that there's nothing
2 good that comes from it. It makes you sick, it makes
3 people around you sick, it causes deaths. And I'm 26
4 now. I've been -- I was there for 24 years, and I still
5 don't know everything that I'm dealing with health-wise,
6 and a lot of doctors don't. And it scares me that
7 whoever is pushing this wants to put this around
8 everyone else. No one knows what's going to happen to
9 the children there. Nobody knows what happened to me
10 and more important, no one asks. No one has offered to
11 help and no one wants to know.

12 So if this happens and goes through, and we
13 will be relocated, are you going to relocate every
14 island? Where is everyone going to go? You want to put
15 stuff on Molokai and Lanai. There's big winds. We
16 can't go there. It's just wrong. Don't industrialize
17 us and make us Oahu because we're already trying to fix
18 what's happened to Oahu.

19 And thank everyone that's here fighting and
20 doing what's best for us because like I aloha our aina.
21 I aloha Hawaii island. I aloha Hawaii Nei. And
22 everyone that says they do needs to think twice about
23 this because it will change everything, this culture,
24 the people and the land. Thank you. (Applause.)

25 FACILITATOR CHANG: Dana Smith Givens.

1 DANA SMITH GIVENS: I'm Dana Smith Givens,
2 and first I want to thank you DOE for being here and for
3 hearing us. I want to thank all of you for standing up
4 tonight and being present. I want to thank Bob for your
5 advocacy and letting us all know about this. You worked
6 really hard. I really appreciate that.

7 As the mother of six children, I have a deep
8 concern about the health and safety of my family. It is
9 my job to care for them and keep them safe. I actually
10 relocated to the Big Island of Hawaii, Puna in
11 particular, because it provided them the cleanest air
12 and the freshest food that I could find. My concern is
13 whether that will still be the case as they grow up. I
14 have little two-and-a-half-year-old twins, and I look at
15 them and I wonder what Hawaii is going to look like in
16 10 years, in 20 years.

17 Hawaii has been severely violated and
18 exploited. I can only imagine the pristine beauty of
19 the aina 120 years ago before the U.S. invasion. I feel
20 very honored and incredibly grateful to live here. I
21 actually feel ashamed in a way that we're even having
22 these discussions, as if somehow we know what's best for
23 Hawaii.

24 I believe that we actually need to return the
25 land to its rightful owners, the Kanaka Maoli, and let

1 them make the decisions. I can assure you that their
2 choices would likely be very different from our own. I
3 doubt that any would require environmental impact
4 statements or any evacuation considerations.

5 You know, sustainability is not just a trendy
6 buzz word, and it's not even a lifestyle choice. As an
7 isolated rock in the most remote part of the Pacific
8 Ocean, it's a necessity. Self-sustainable is just that,
9 self-sustainable. Not corporate sustainable.

10 For the record, I fully support solar energy
11 and thank you for all of you who presented solutions
12 tonight. Let's make wise, respectful, healthy choices
13 for ourselves, our keiki, and the aina. Mahalo.

14 (Applause.)

15 FACILITATOR CHANG: I have Rafa, Nadia, and
16 Kim.

17 RAFA SELVAS: Aloha and good evening. My
18 name is Rafa Selvas. And first I want to start off by
19 just asking a simple question. Sitting here looking at
20 you guys make reference to this great marketing slick
21 slides that you have here. How much money did you guys
22 spend on that? Research, development, training costs,
23 all that? Why not invest that into substitution for
24 alternative forms of research and development for
25 energy? First point.

1 Second point, you guys aren't here without a
2 legitimate claim to this land. What are you guys doing
3 here? What do you think if you did this to the United
4 States and Key West? What would we do? Simple as that.
5 This is not your land. You do not deserve to be here.
6 One hundred and nineteen years has been enough. It was
7 an act of terrorism conducted by the United States
8 government by marines and wealthy land owners here who
9 have taken the land over from the rightful owners.
10 Let's do this in Florida. Let's see what happens.
11 Right?

12 Last point. In November 2008 President Barack
13 Obama prior to getting elected made a promise to
14 constituents in the general election in Sarasota,
15 Florida. He said -- he voiced his voice as a Hawaiian
16 and said that the kingdom of Hawaii will be free.

17 Now it's time to make your promise count,
18 because otherwise we're going to make a new change.
19 Thank you. Aloha. (Applause.)

20 Another point. The last point is that the only
21 way that we're going to be able to change this, if you
22 guys are not listening to us here speak to you clearly,
23 is going to be the same way that things happen in
24 third-world countries, by a revolution, kidnapping DOE
25 officials or the people from the power plant, blowing up

1 roadways, blowing up the power plant, kidnapping
2 individuals and hijacking transports. We can do that.
3 We do it at different countries, and we have people here
4 that could help us do it here. So it's time to let our
5 kingdom be free again. You have no right to be here.
6 Aloha. (Applause.)

7 FACILITATOR CHANG: Okay. I have Nadia,
8 and then after Nadia I have Kim.

9 NADIA UNDE HOEMO: Thank you all. I am
10 Nadia Unde Hoemo. I'm a mother and a doctor with, and
11 people call me Auntie quite a bit. And for me it's not
12 only -- you've heard everything already. And it's not
13 really an argument here. I ask you to listen. I love
14 this island. I love the people. Thank you so much for
15 being here. And what I really love about the island is
16 the heart of the community and the heart for this land
17 and the beauty of it.

18 So I ask you to listen to our people and the
19 suffering that you've seen. I know that many words
20 (singing Hawaiian.)

21 I'm a doctor. I've been a doctor for over like
22 25, 30 years. There are people suffering here on this
23 island with symptoms, diseases, illnesses that we
24 haven't seen. You've heard the testimony of this mother
25 who went from being a successful leading professional is

1 now living in a tent and cannot function.

2 So I say that the studies are a waste of money
3 and time. Well, if there's one person hurt by this
4 geothermal whatever, you should stop it, period. If
5 this was your son, your mother, your wife -- so long.
6 So for our children, I certainly didn't care what the
7 studies show. I've heard and seen enough here tonight,
8 but I am happy for my kids to live by candlelight and
9 sun rather than geothermal.

10 There's love of power and love of people, and I
11 vote for the people. I've seen also a lot of violence
12 here on the island, and so I pray that you really see us
13 and feel us. Yeah, just hear. Just hear us. Yeah. I
14 don't want to see any more violence. I want to see a
15 beautiful place for my children, our children, our
16 people, our community. So thank you. (Applause.)

17 I know you mean well for real. And yeah, when
18 we play God, it's -- yeah. Just thank you.

19 FACILITATOR CHANG: I have Kim Pinkerton.

20 KIM PINKERTON: Thank you so much for
21 allowing me to comment. I'm strongly opposed to
22 throwing a wire over to Honolulu. The transmission loss
23 is ridiculous. You're going to -- all this transmission
24 loss. That's not problem. We've got plenty of heat we
25 can produce electricity. I strongly disagree.

1 Okay. That being said, I understand all the
2 people in here who have these needs. I have needs. I
3 bought my place in 2003. I'm running on four solar
4 panels, four solar panels. I'm not having brownouts,
5 blackouts. The one rule you've got to remember, if your
6 outflow exceeds your inflow, your upkeep becomes your
7 downfall.

8 Edison had it right for the homeowners, but
9 these people are dealing with something different.
10 We've got Hawaii spring water. I went and had a powwow
11 with this guy. This was a tough meeting. We had to
12 drink two bottles of wine to get through this.

13 When we started a conversation, he said, We've
14 got to have this kind of electricity because we can't
15 make our plastic bottles. We went through all kinds of
16 stuff that's way over my head about what it takes to
17 make plastic bottles.

18 And at the end of two hours, we concluded that,
19 well, you know what, you can run your plant on solar if
20 you use a different source of heat.

21 One of the things I would strongly recommend
22 you look at is the manufacturers making available
23 manufacturing equipment that requires electricity to
24 produce heat. This is very inefficient. If you produce
25 your heat with something other than electricity, then

1 you can run the rest of the machine with solar. There
2 are ways to do this.

3 Thank you so much for coming and listening to
4 us. Thank you for considering everything. (Applause.)

5 FACILITATOR CHANG: Kim was the last person
6 who signed up. We actually should have been out of here
7 by 9:00. I want to thank all of you for truly your
8 patience and your participation because we really wanted
9 to hear what you have to say.

10 You know, there are some people that I couldn't
11 read the writing. Is there anybody here that signed up
12 that I did not call?

13 Okay. With that, thank you so very much.

14 AUDIENCE MEMBER: Questions.

15 FACILITATOR CHANG: Okay. Well, the
16 questions are not part of the formal record. So the
17 court reporter is not going to be taking any more notes.
18 She's not going to record this.

19 Before we take the questions, what I did want
20 to say, you have opportunities to make comments. You
21 have up until October the 9th. There are different ways
22 to do that; the website, email, fax, and mailing.

23 We are going to be on Maui on Monday, Molokai
24 -- Lanai Tuesday, Molokai Wednesday, and then Honolulu
25 on Thursday. So please come out and submit your

1 testimony or your statements up until October the 9th.

2 (Concluded at approximately 9:13 p.m.,

3 September 14, 2012.)

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1 STATE OF HAWAII)
) ss.
2 COUNTY OF KAUAI)

3 I, TERRI R. HANSON, RPR, CSR 482, do hereby
4 certify:

5 That on Friday, September 14, 2012, at 5:50 p.m.;
6 that the foregoing U.S. Department of Energy, Public
7 Scoping Meeting, Re: Hawaii Clean Energy Programmatic
8 Environmental Impact Statement, was held;

9 That the foregoing proceedings were taken down by
10 me in machine shorthand and were thereafter reduced to
11 typewritten form under my supervision; that the
12 foregoing 116-page transcript represents to the best of
13 my ability, a true and correct transcript of the
14 proceedings had in the foregoing matter.

15 I certify that I am not an attorney for any of
16 the parties hereto, nor in any way concerned with the
17 cause.

18 DATED this 14th day of October, 2012, in Kapaa,
19 Hawaii.

20 _____
21 TERRI R. HANSON, CSR 482
22 Registered Professional Reporter
23
24
25