

All-Stakeholders Meeting

Date: May 14, 2009

Attendees

Stakeholders:

Allan A. Smith, *Kauai Island Utility Cooperative Board Member*
Beth Tokioka, *County of Kauai*
Brad Parsons, *Apollo Kauai*
Carl Berg, *Surfrider Foundation*
Dylan DePue, *DA Solar*
Elsie Godby
Gene Davis
George K. Costa, *County of Kauai*
Jesse Akagi, *The Gas Company*
JoAnn Yukumura, *Energy Plan Advisory Committee (EPAC)*
Joe Robinson, *Intentergy*
Ken Taylor
Keone Kealoha, *Malama Kauai*
Laurel Brier, *Apollo Kauai*
Laurel Loo, *Attorney*
Lea Kaiaokamalie, *Planning Dept.*
Marie Williams, *Planning Dept.*
Mary Lu Kelly, *Oceanit*
Mattie Yoshida, *Kauai Economic Development Board*
Owen Moe, *Gay & Robinson*
Pat Griffin, *Lihue Business Association*
Phil Tacbian, *Kauai Island Utility Cooperative Board Member*
Randy Hee, *Kauai Island Utility Cooperative*
Rohit Mehta, *Kauai Economic Development Board and Energy Plan Advisory Committee*
Rolf Bieber, *Ethics Board Member*
Stanley Doi, *Department of Accounting and General Services*
Susan Tai, *Kauai Economic Development Board*
Tek Nickerson, *Share, Inc.*
Thomas Noyes, *Kauai Path*
Tom Godby

SENTECH Hawai`i Team Members:

Diane Zachary, *Kauai Planning & Action Alliance*
Douglas Hinrichs, *SENTECH Hawai`i, LLC*
Jill Sims, *SENTECH Hawai`i, LLC*
Marguerite Harden, *SENTECH Hawai`i, LLC*
Rayne Regush, *Kauai Planning & Action Alliance*

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Notes

What's Missing in Preliminary Plan Elements?

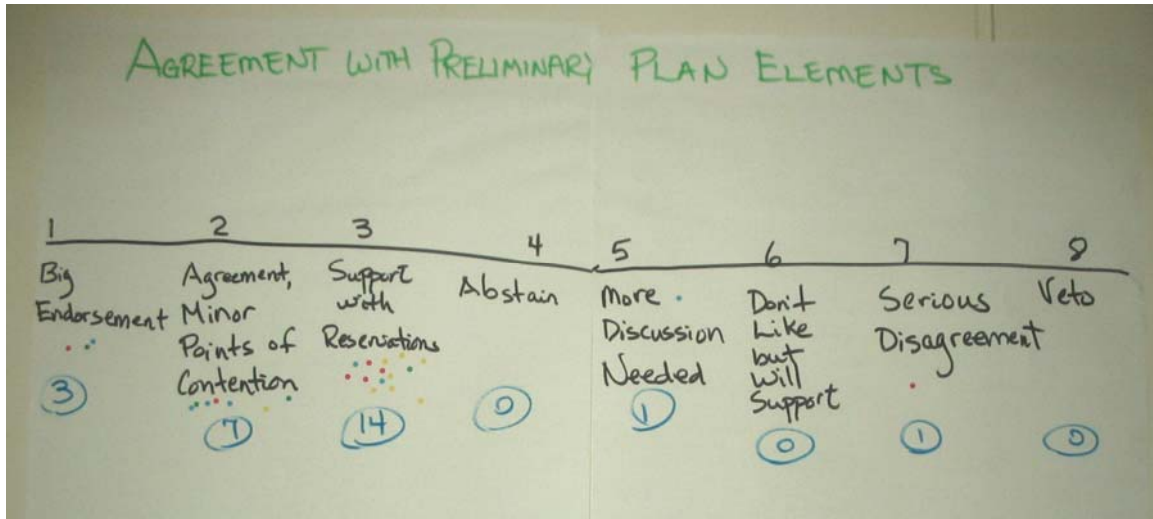
- How do you define 100% energy sustainability?
 - Nothing imported.
- Wants to see more data on energy usage, breakout, etc.
- Would like to see a breakout of money leaving the island for transportation versus electricity usage. Feels that transportation would be larger and that electricity is being over-emphasized.
- Shouldn't focus on wind power, it is a visual blight that will impact tourism.
- Look more at land use; density, rezoning; urban growth boundaries.
- Need to visualize what changing the urban density would look like, not necessarily high rises.
- Would like to see a cost benefit analysis for all options.
- Consider Savonius wind (vertical) system
- Too much emphasis on hydro. Water usage is very important. Need to consider global climate change and if these changes will impact water usage and availability (distribution lines, impacts to infrastructure by 2030 and beyond)
- Layout of OBS - more in depth for priority issues
- OTEC may be more realistic - consider
- Look at relationship of where people work and live
- Need to define "Smart Grid" and expand opportunities.
- An energy price floor is a missing piece; could stabilize the price of fuel and act as a disincentive.
- Would like to see education included. Using media to help the public understand efficiency, technologies, options, etc. Try to change behavior by repeatedly putting information out there.
- Look at potential ARRA Stimulus funding sources.
- Sentech Hawaii (Doug) needs to be interfacing more with the KIUC board members, exchanging emails, etc.
- Look at just passed law on avoided cost and make sure the most recent information is included in the plan.
- KIUC has access to loans - have looked at having a developer build a project and after they utilize the tax credits, KIUC would buy the project from them. KIUC has PPAs, mostly with sugar companies. KIUC is also willing to look at other schemes to benefit ratepayers, potentially looking at federal funding, etc.
- Project developers have said that financing is not the issue; instead it is other barriers, for example permitting, that make the process too high-risk or unfeasible for them.

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Voting on the Current Preliminary Plan Elements:

Attendees were asked to place one small dot along a scale indicating their support of the planning to date. The following is an image reflecting the scale and votes. The number 1 indicated "Big Endorsement" and the number 8 being "Veto." The numbers circles in blue indicate the total number of votes (dots) for each point on the scale.



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Breakout Sessions

Issue #1: Balancing Wind Development and Wildlife Protection

Protecting endangered shearwaters has stopped large wind development on Kauai.

Group A (Doug and Marguerite):

Votes	Provided Solutions
8	1. Renewable developers, environmental groups (NRDC, National Audubon Society) and U.S. Fish & Wildlife are mapping out the best locations where renewable projects would have the least impact at SunZia project, linking NM wind to AZ cities.
1	2. Habitat Conservation Plans on county-wide basis could guarantee a 2-for-1 shearwater replacement/take and levy fines for takes that would further protect endangered species.
0	3. Developers could site turbines in non-migratory paths.
1	4. Large wind turbines could be turned off during shearwater migration periods (Sept.15-Dec.15 at night).
	New Solutions
4	5. Consider other technologies - not wind.
2	6. Use off-shore wind (no visual impact)
1	7. Balance development of wind with land conservation for birds (replacement value of 2:1)
2	8. Alternative energy storage (ex. pumped hydro)
1	9. Site turbines where they won't impact the vista (existing industrial sites like Port Allen)
1	10. Follow studies of devices/lights that deter birds.

Group B (Diane and Jill):

Votes	Provided Solutions
1	1. Renewable developers, environmental groups (NRDC, National Audubon Society) and U.S. Fish & Wildlife are mapping out the best locations where renewable projects would have the least impact at SunZia project, linking NM wind to AZ cities.
0	2. Habitat Conservation Plans on county-wide basis could guarantee a 2-for-1 shearwater replacement/take and levy fines for takes that would further protect endangered species (i.e. bury powerlines).
8 (#2,3,4 combined)	3. Developers could site turbines in non-migratory paths.
0	4. Large wind turbines could be turned off during shearwater migration periods (Sept.15-Dec.15 at night).
	New Solutions
3	5. Look at smaller wind farms using vertical or other technologies.
6	6. Incorporate vertical system on existing transmission poles.
2	7. Look at experience of wind farms on Hawaii & Maui.
10	8. Off-shore siting in safer areas

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Issue #2: Insufficient Return on Renewables

Landowners and renewable energy developers cannot realize sufficient IRR to invest in projects.

Group A (Doug and Marguerite):

Votes	Provided Solutions	Comments
6	1. Oil price floor to decouple renewable price from price of oil.	How to implement?
4	2. Feed-in-Tariff to guarantee minimum price (cents/kWh) that KIUC would pay for renewable electricity, specific for resource/technology.	
3	3. Reconsider “avoided costs of generation” cap set by HI legislature.	Need to consider price volatility
0	4. Reconsider legislation that only allows local tax appetite for HI state incentives, e.g. Investment Tax Credits	
3	5. Revolving loans.	Still need economics to incentivize development
0	6. Public Benefits Fund, charged by KIUC to ratepayers, to fund renewable investment.	
	New Solutions	
7	7. Cost/Benefits of alternative energy (risk evaluation and management) and assign a risk-adjusted rate of return.	

Group B (Diane and Jill):

Votes	Provided Solutions	Comments
3	1. Oil price floor to decouple renewable price from price of oil.	
8	2. Feed-in-Tariff to guarantee minimum price (cents/kWh) that KIUC would pay for renewable electricity, specific for resource/technology.	(State mandated)
1	3. Reconsider “avoided costs of generation” cap set by HI legislature.	
3	4. Reconsider legislation that only allows local tax appetite for HI state incentives, e.g. Investment Tax Credits	Individuals should also benefit, not just commercial.
0	5. Revolving loans.	
1	6. Public Benefits Fund, charged by KIUC to ratepayers, to fund renewable investment.	
	New Solutions	
8	7. Streamline permitting to reduce upfront costs.	
4	8. Add a program for 0% loans for PV	
6	9. Ensure permit facilitation and consumer advocate available to help developers.	

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Issue #3: Waste-to-Energy

Waste-to-Energy proponents believe it would solve waste stream problem and create “renewable” energy; opponents believe WTE technologies are hazardous to the environment and inhabitants, and that reduce/reuse/recycle programs would decrease supply.

Group A (Doug and Marguerite):

Votes	Provided Solutions	Comments
7	1. Implement 3R campaign to see actual supply levels after 1 year.	
5	2. Conduct “best available WTE technology” review	
3	3. Multiple-input, multiple output technologies to allow biomass to supplement waste supplies if they became insufficient.	
0	4. Invite US Environmental Protection Agency to weigh in.	
0	5. See what other cities/counties have done.	
	NEW:	
9	6. Evaluate waste stream supply and how 3-R's would influence WTE.	

Group B (Diane and Jill):

Votes	Provided Solutions	Comments
0	1. Implement 3R campaign to see actual supply levels after 1 year.	
4	2. Conduct “best available WTE technology” review	
1	3. Multiple-input, multiple output technologies to allow biomass to supplement waste supplies if they became insufficient.	
1	4. Invite US Environmental Protection Agency to weigh in.	
6	5. See what other cities/counties have done.	Add countries (EkoSystem, Japan)
	New Solutions	
9	6. Have a 3-R system in place and operating for 5 years.	
7	7. Get better data on WTE feasibility.	