

Kaua'i Energy Sustainability Plan Survey Results

Section 1: Energy Plans

Renewable Energy Stakeholder Questions for the Kauai Energy Sustainability Plan						
SECTION # 1: Energy Plans						
1. Of the following energy plans and documents, which should Kaua'i consider or model after?						
Answer Options	Definitely Model	Take Into Consideration	Don't Even Consider	No Opinion (N/A)	Response Count	Average Ranking (MH STAT)*
Hawai'i Island Energy Sustainability Plan ( <a href="http://www.kohalacenter.org/research.html">www.kohalacenter.org/research.html</a> )	33	54	4	41	132	56
Hawai'i Energy Strategy 2007 ( <a href="http://www.hawaii.gov/dbedt/info/energy/planning/hes">www.hawaii.gov/dbedt/info/energy/planning/hes</a> )	17	62	5	48	132	43
Hawai'i 2050 Sustainability Plan ( <a href="http://www.hawaii2050.org">www.hawaii2050.org</a> )	17	61	13	41	132	34.5
Focus Mau'i Nui ( <a href="http://www.focusmauinui.com">www.focusmauinui.com</a> )	10	50	12	60	132	23
California Energy Action Plan ( <a href="http://www.energy.ca.gov/energy_action_plan">www.energy.ca.gov/energy_action_plan</a> )	9	52	20	51	132	15
<b>Other (please specify):</b>					<b>12</b>	
KIUC Renewable Energy Portfolio					1	
KIUC IRP					2	
Energy usage is more than just electrical and gas consumption. Kauai needs to look at all aspects of this issue.					3	
model Hawaii clean Energy Initiative- brilliant					4	
I like the Hawaii Clean Energy Initiative..most progressive on energy.. focus mau'i is much like the 2050 plan, nice but no real PLAN					5	
the most important plan to consider is one you do not have listed... to agree on the political will to face the private sector and its representatives and do what is pono. do me a favor and get real, and stop insulting us. we are a lot more educated than you have been told.					6	
Open it up to the public to present their plans. Just because people are in government generating "plans" doesn't mean they know what they're talking about. In fact, they could very well have been placed in those positions by vested interests to make sure that those interests are taken care of rather than moving on to new and more efficient designs they don't stand to profit from. The plans have got to be for the people, not the special interests and the special interests hold big money and as we all know, money talks in politics and the public interest be damned.					7	
local community wise smart grid layout and planning.					8	
anything that involves alternative energy cooperation into our energy system would be way better than the system we have now.					9	
Existing Integrated Solid Waste Management Plan					10	
cannot review because above sites did not present plans					11	
I can't answer this question unless I know what these plans are. You need to provide direct links to the specific pages that explain the plans listed above. I tried to get the urls listed above and didn't see anything specifically about energy plans. Most people don't have the time to dig through 5 different websites to get to the above plans you are referencing.					12	
<i>answered question</i>					<b>132</b>	
<i>skipped question</i>					<b>0</b>	

Definitely Model

Maybe Model

\* "Average Ranking (MH STAT)":

This calculation weights the answers in order appropriately assign a single, quantitative measure that is used to compare the answer choices against each other. Throughout this document, the statistic is calculated as follows (with #1 as the example):

$$\text{definitely model} - \text{don't even consider} + (.5 \times \text{take into consideration})$$

Therefore, those who skipped the question or did not express an opinion are not counted in the statistic.

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2. What elements would you most like to be included in the Kaua'i Energy Sustainability Plan currently in progress? (Check all that apply)			
Answer Options	Response Frequency	Response Count	
Updates or improvements to previous energy plans' results, data and recommendations	71.2%	89	Include
Strategies on energy-efficiency and other demand-side load reduction	69.6%	87	
Recommendations for project implementation	60.8%	76	Maybe Include
Recommendations for personnel and training in the renewable energy field (for "green jobs" creation)	59.2%	74	
Overview of previous energy plans' results, data and recommendations	54.4%	68	Maybe Include
Evaluation of energy technologies not included in prior plans	51.2%	64	
Roles of various players along the path to project development	48.0%	60	
<b>Other (please specify):</b>		7	
The above list scares me because it doesn't include what I believe is the essence of an energy plan. Most of the above are repetitions. We need to pull together a clear, easy-to-understand, accurate picture of where we are and where we want to go in terms of energy usage on Kaua'i. We need an Energy 101 which clearly explains relationships, "cause and effect" which shows (as the Hawaii County Plan does pretty well) what will happen in terms of money going out of the economy, GHG contribution, rising household costs, etc if we do not change. Then it needs to show the most effective ways to change and how public policy and education can support and facilitate the change.		1	
inclusion of input emanating from community		2	
Focus on things that County gov can implement rather than what KIUC is responsible for		3	
an aggressive timeline		4	
Strategies for individuals to participate in harvesting available energy and feeding the grid.		5	
hey, i dont see anything about not allowing any further privatization of public resources..no developers in on the process. no middle men and no financing from private institutions. get it? we're done with this ponzi crap.		6	
Since the days of the ancient Greeks, democracies have been ruled by the moneyed elite so that instead of being a democracy, they have in reality, been oligarchies whose main interest is keeping thing just as they are. That is what has been happening in Kauai and now we have the highest priced electricity in America.		7	
	<i>answered question</i>	125	
	<i>skipped question</i>	7	

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3. What information would you most like to be included in the Kaua'i Energy Sustainability Plan currently in progress? (Check all that apply)			
Answer Options	Response Frequency	Response Count	
Data on renewable fuels and energy resources	79.2%	99	Include
Data on sustainable energy technology costs	74.4%	93	
Evaluation of energy storage (for firming up renewables)	64.0%	80	
Evaluation of cost and payback implications of policies (for example, Feed-in Tariffs, Cap-and-	61.6%	77	
Evaluation of emerging energy technologies not included in prior plans	56.0%	70	
Evaluation of green building practices	56.0%	70	
Data on demand response and Smart Grid	50.4%	63	
Data on ground transportation	48.8%	61	Maybe Include
Data on out of pocket costs	48.8%	61	
<b>Other (please specify):</b>		5	
All of this is interesting information, but it can be overwhelming if the information is not organized in a way that will make sense to the specific situation of Kaua'i. All these separate pieces of information will be of little use unless someone weaves it into a clear picture of what we need to do and how this information applies to Kaua'i. And how it integrates. I have no idea what you mean by "data on out of pocket costs" Likewise, it is not clear to me what "evaluation of green building practices" and evaluation of cost and payback implications of policies means in the context of the goal of the plan.		1	
Data and Evaluation are not as important as implementation plans for the County gov, we have seen the Data and Evaluation before		2	
a commitment to implement !		3	
we will not allow you to privatize our health care, education, police fire departments or our electric coop.		4	
Whatever has happened to date has been ineffective. It's nothing but stalling, keeping things from happening in order to keep the status quo. Current management should be fired for incompetence and malfeasance and replaced with young, energetic, forward thinking people with a "can do" attitude. Current management is well practiced at coming up with reasons why it can't be done. We don't need them. All they're doing is holding back progress...to favor the moneyed elite. These are the things "real people" talk about every day.		5	
	<i>answered question</i>	125	
	<i>skipped question</i>	7	

4. What do you consider to be the most important outcomes of the Kaua'i Energy Sustainability Plan currently in progress? (Check all that apply)			
Answer Options	Response Frequency	Response Count	
Achievable goals (e.g. 500 GWh of renewable energy by year 2030)	65.9%	81	Most Important
A "common ground" vision, respecting cultural, social and environmental values	63.4%	78	
Streamlined renewable energy installation process (siting and permitting)	62.6%	77	
Greater choice of renewable energy options from our utility, e.g. through Green Power	61.0%	75	
Understanding the roles of participants (utility, the county, developers, investors, and the community) in facilitating or obstructing sustainable energy projects	58.5%	72	
Identification of methods to overcome barriers to project development and implementation	51.2%	63	
Recommendations for future public involvement and outreach	44.7%	55	Less Important
<b>Other (please specify):</b>		10	
distributed renewable energy + Smart grid		1	
A recommendation for how conflicts can be effectively resolved as implementation efforts run into conflicts. An agreement or consensus on the major "trimtab" (10-12?) actions that need to be taken to move Kaua'i toward energy sustainability. We are not going to develop a streamlined renewable energy installation process (I think you mean permitting process) in the plan. That could be a top goal or action implementation step. I don't see the plan as including that level of accomplished implementation. And greater choice of renewable energy options from our utility? What does that mean? We need a plan from the utility as to how they will encourage renewables.		2	
Western Renewable Energy Proposal utilizing energy pellets		3	
Give KIUC a mandate to put Sustainable sources in -NOW!		4	
It all seems important. I did not check achievable goals as I find we keep underestimating what we can accomplish and really nothing more than talking is realized.		5	
What can our small electrical grid handle?		6	
that you respect the basic concept of human rights.		7	
Quit screwing around and do something. When you actually do something you're going to be stepping on someone's toes. Well, step on them, get the job done and then talk about it. You people who should be "doing something" spend way too much time talking about the various ways of doing something. Quit talking and do. Whatever you do, you'll never make 100% of the people happy. Just do what's right for the island. That's not hard to figure out and if you can't figure it out, maybe you should be flipping burgers at McDonalds.		8	
water security (not dependent on oil powered pumping)		9	
collaborate with other county for fuel purchasing power.		10	
	<i>answered question</i>	123	
	<i>skipped question</i>	9	

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5. Please provide any other comments, questions, or concerns you have regarding Energy Plans.	
Comments	Response Count
Need to consider current status and what needs to be built to meet goals.	1
The authority of the Plan has not been established for each of the participants other than the County. This should be clarified early in the process so that there is a clear, shared understanding as to how this Plan will be implemented.	2
Change in management at KIUC is essential	3
Completely evaluate the potential of a strategy for independent installation of personal renewable systems as islanding rather than non-islanding systems (capital investment remains private and not owned by KIUC), in conjunction with the provision of large-scale energy storage (such as pumped water) by KIUC	4
These questions suggest solutions. Need to understand the situation first.	5
They've been provided above. At minimum, we need to do a Big Island plan. It clearly explains relationships and cause and effects and it outlines and quantifies specific actions to reduce demand, increase efficiency and promote realistic renewables. The plan needs to acknowledge that conflicts in the community are one of the key obstacles to project developments and there needs to be a focus on conflict resolving mechanisms.	6
Transparency in procedures taking place is essential.	7
You need to focus on implementation and what the County gov can do to make this worthwhile.	8
KIUC needs community input to get them up to speed. One example is that they want to purchase a Aprox. \$100 million gas turbine. Heco has banned new fossil fuel turbines and we need to stop it here- now!	9
let's get a move on. .for example, let's build a habitat for the endangered birds and get those wind mills up where appropriate, etc.	10
Let us stop dragging our feet!	11
The plan should provide the total energy picture for Kauai. Show energy is used on Kauai.	12
It would be good to provide an overview of the models in question number 1 so that people will be more informed to answer.	13
Cost has to be included, even if not a priority, at least so everyone understands that their bills will be going up. Our grid is so small that technologies that might work on the mainland need to be screened extra carefully as far as their reliability on our system.	14
I expect to see this in your next public survey and discussed along with everything else you have on your agenda. and dont be thinking these comments can be ignored.... you should be ashamed for not having included them already. we are paying you to do this and I remind you to be respectful... dont you dare involve/recommend any private insolvent institutions to finance .	15
I think I've explained my viewpoint along the way. Too much corruption, cronyism, nepotism, and the "good old boy" network. When the government no longer works, it's time to replace the government. If I had the time I could write a book on all the corruption happening on Kauai. And once the police get corrupted, there's no place to turn to get it fixed. They serve their moneyed masters, not the public. "To serve and protect" What a laugh. They don't serve, they boss people around. Protect? It's been shown in many court decisions that it's not the job of the police to protect anyone. So to "serve and protect" is a public relations lie designed to keep the public in ignorance as to what's really going on.	16
They should include the cost's.	17
Will Hawaii be the same in the future if we add on these things? Or will it be different?	18
It should be inspected every couple months.	19
Consideration for adoption of lower voltage lighting system such as LED technologies, sunlight fiber optic uses.	20
For the hydropower works, i think that it's a good idea that it's considered as a renewable energy source and all.	21
photovoltaic and wind are awesome, make it easier for homeowner's to get permits for both.	22
This should be our number ONE priority. We need to make the change from oil to alternative NOW.	23
Keep government out of the process as much as possible. Action needed right now may not be popular for a politician to get behind for fear of not being re-elected. Our needs for this island are not political they are real. Real people will have to act. We are already years behind where we need to be.	24
Not enough economic development involment. Methane gas from existing landfill could be used to fuel an industry that would create jobs. A survey of existing business raw material needs should be conducted to find out if there is enough demand for a processing facility to turn raw waste into raw material to be used by our industry or other island industries."	24
I will soon have a solar electric system installed in my private residence. When the system produces more energy than I need, it will be returned to the power grid and used somewhere else. My concern is, when I need to draw power from the grid why should I have to pay the full cost of that power which I provided earlier. I understand it wouldn't or shouldn't be free because of the handling costs involved, but since I provided to the utility comppany for free will I be receiving a credit?	25
Whatever the sustainable energy source is, solar, wind, even waste burning in special facilities if proper filter methods are used -everybody has to contribute. for instance ,every house has to have solar panels which should be bought at super discount price by the kiuc and then sold to every customer size depending on their energy consumption. kiuc should help people install them,too .the costs would be included in the monthly electric bill for several years till paid off . only cars with less fuel consumption are to be brought to kauai .remember ,that worked wonders in europe when they regulated emission and efficiency....exceptions for certain businesses and their employees who need bigger cars to conduct their business .everybody else who already has an over-sized car should be heavily taxed. air conditioning only where it is necessary to preserve food and at the highest working temperature. raising of the lowest temperature in public buildings and shopping centers and such. it is okay on our island not to have to wear a jacket indoors .....embrace island style clothing ! reduce packaging following the european example.	26
<i>answered question</i>	26
<i>skipped question</i>	101

# Kaua'i Energy Sustainability Plan Survey Results

## Section 2: Vision and Goals

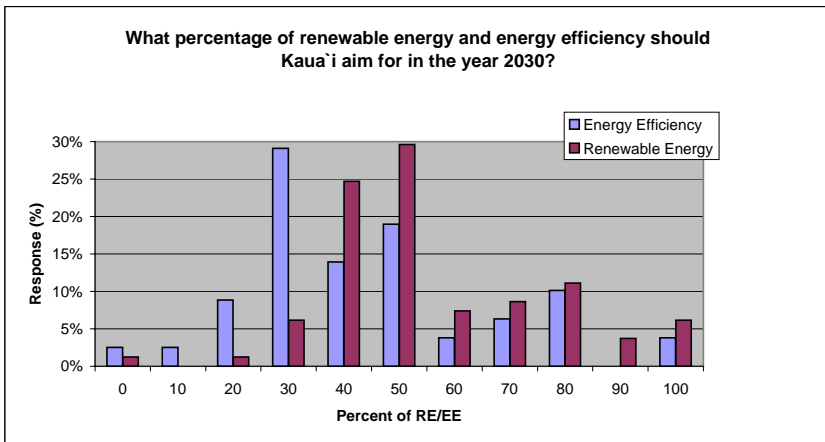
Renewable Energy Stakeholder Questions for the Kauai Energy Sustainability Plan								
SECTION #2: Vision and Goals								
6. How would you rate the following visions/plans/events?								
Answer Options	Great	Above Average	Average	Below Average	Poor	No Opinion (N/A)	Response Count	Average Ranking (MH STAT)
Kaua'i Renewable Energy Conference 2008 ( <a href="http://www.kedb.com/energyconference.asp">www.kedb.com/energyconference.asp</a> )	18	33	23	3	3	30	110	71.5
Hawai'i Clean Energy Initiative (HCEI) ( <a href="http://www.hawaiicleanenergyinitiative.org">www.hawaiicleanenergyinitiative.org</a> )	21	34	18	8	3	26	110	71
General Plan for the County of Kaua'i, Vision for Kaua'i	15	25	34	5	3	28	110	61
2008 Kaua'i Island Utility Cooperative (KIUC) Strategic Plan ( <a href="http://www.kiuc.coop">www.kiuc.coop</a> )	15	23	31	11	6	24	110	45.5
Hawai'i 2050 Sustainability Plan ( <a href="http://www.hawaii2050.org">www.hawaii2050.org</a> )	13	24	26	11	5	31	110	42
<b>Comments (Which elements of the above plans would you like to see modeled or excluded):</b>								<b>18</b>
Plans take too long to be developed and published. Out of date and not workable.								1
try not to regurgitate past plans: this needs to be a roadmap we adopt and use, not an airy-fairy or preachy rehash of why we CAN'T do renewables yet. Also, don't concentrate on technology that is not viable today. Great if it could possibly be done in the future but this just gives KIUC an excuse to wait and do nothing...								2
The Kaua'i County General Plan was based on poor data--no build-out analysis--and a lot of other stuff (some of it covered in your indicators project). It contains generalizations that are not integrated and lacks specific recommendations such as are included in the Hawaii County Energy Sustainability Plan. It was mainly a compiling of various old plans and business as usual. It was not strategic. It did not do very good analysis. Please avoid these errors. KEBD's Renewable Energy Conference was filled with substantive speakers and speeches. It was excellent as a conference, but a conference is not the same thing as a plan. In fact, one of the major conclusions of KEBD's conference was that the next step toward energy sustainability is the development of a community plan that would SYNTHESIZE the data, help people understand the main parameters of the energy situation on Kaua'i and lay out a road map based on good data and a resolution of some of the major conflicts in understanding and priorities. The Hawaii Clean Energy Initiative's strength is its identification of the important pathways or strategies such as decoupling of rates from sales and the sense of urgency in moving to renewables and energy efficiencies. Its weakness is its transportation element that sees electric cars as the main solution and totally ignores the issue. Don't waste your time comparing yourself to these documents. Except for HCEI, these documents are just "plans" and dreams.								3
A comprehensive, environmentally sound, and visionary-looking ahead and setting dates for goal, eg. Hawaii Clean Energy Initiative has that approach.								4
Included: HCEI and Kaua'i renewable energy conference								5
It's all about putting off changes as long as possible. We want action now. Example: The Department of Land and Natural Resources recently estimated it would take \$4 million and 2 years to take care of the damage to Polihali and reopen it to the public. Kaua'i residents completed the job in 8 days with donated time, labor, equipment and supplies. Think about that one for a few minutes and then realize that the whole state government operates in the same manner. Personally, I think revolution is the solution. As it is, no one is held accountable. So the corruption continues and grows.								6
"Hawai'i Clean Energy Initiative								7
Kaua'i Island utility cooperative strategic plan								8
General Plan for the County of Kaua'i, Vision for Kaua'i 2020								9
I like the Hawai'i 2050 Sustainable Plan because it helps me know that our future generation will be in safe hands and a good community.								10
<a href="http://www.kiuc.coop">www.kiuc.coop</a>								11
<a href="http://www.hawaiicleanenergyinitiative.org">www.hawaiicleanenergyinitiative.org</a>								12
Hawai'i Clean Energy Initiative (HCEI) ( <a href="http://www.hawaiicleanenergyinitiative.org">www.hawaiicleanenergyinitiative.org</a> )								13
Renewable Energy model								14
Hawaii clean Energy Initiative								15
I think that you could exclude the "hawaii 2050 sustainability plan.								16
The great majority of people here on Kaua'i have no idea about all this stuff. KKCR is a great source of info, but more info is needed for all.								17
Most of my information on the subject of energy is obtained from reading the newspaper. What I opion I have formed is that there is a whole bunch of stalling going on. It is my opinion that that Kaua'i could cut the cost of its energy in half in one or two years. Only if the people who are responsible for making the decisions, actually would make a decision.								18
<i>answered question</i>								110
<i>skipped question</i>								22

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Section 2: Vision and Goals

7. What percentage of renewable energy and energy efficiency should Kaua'i aim for in the year 2030? The KIUC goal is 50% renewable energy by 2020 based on Hawai'i's Greenhouse Gas legislation. HCEI has set their default goal as 70% by the year 2030 (30% energy efficiency improvements and 40% renewable energy).

Answer Options	Response	# Of Responses	Response %	Response (rounded to nearest 10)	Response % (MH STAT)
Percentage of energy efficiency	0	2	2.53%	0	3%
	10	2	2.53%	10	3%
	20	7	8.86%	20	9%
	25	1	1.27%	30	29%
	30	22	27.85%	40	14%
	35	3	3.80%	50	19%
	40	8	10.13%	60	4%
	45	2	2.53%	70	6%
	50	11	13.92%	80	10%
	52	1	1.27%	90	0%
	54	1	1.27%	100	4%
	55	1	1.27%	<b>Mode</b>	<b>30%</b>
	60	2	2.53%	<b>Mean (%)</b>	<b>42</b>
	66	1	1.27%		
	70	4	5.06%		
75	3	3.80%			
80	4	5.06%			
84	1	1.27%			
99	1	1.27%			
100	2	2.53%			
Percentage of renewable energy	0	1	1.23%	0	1.23%
	20	1	1.23%	10	0
	25	1	1.23%	20	1.23%
	30	4	4.94%	30	6.17%
	35	1	1.23%	40	24.69%
	40	19	23.46%	50	29.63%
	45	1	1.23%	60	7.41%
	47	1	1.23%	70	8.64%
	50	22	27.16%	80	11.11%
	55	1	1.23%	90	3.70%
	60	5	6.17%	100	6.17%
	65	1	1.23%	<b>Mode</b>	<b>50%</b>
	70	5	6.17%	<b>Mean (%)</b>	<b>55</b>
	72	1	1.23%		
	75	5	6.17%		
79	1	1.23%			
80	3	3.70%			
85	1	1.23%			
90	2	2.47%			
95	1	1.23%			
99	1	1.23%			
100	3	3.70%			
<i>answered question</i>			<b>79, 81</b>		
<i>skipped question</i>			<b>52</b>		



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Section 2: Vision and Goals

8. What future pressures might make you change the goal(s) that you listed above?		
Answer Options	Response Count	
Oil (gasoline) prices	57	Major Pressure
Sustainability (responsible use of resources)	56	
Electricity rates	53	
Electrical blackouts	44	
Emission of air pollutants	39	
Visual impact of proposed projects	27	Less of a Pressure
<b>Other (please specify):</b>	<b>10</b>	
the percentages should only go higher, not lower	1	
Environmental Impact (Hydro)	2	
I don't understand what you are asking for? First of all Question 8 refers to Question 7 which is not clear. Are you asking in Q7 for a percentage of overall energy use on the island or just of electricity use? You use as examples KIUC and HCEI which seem to refer to electricity usage, but your question seems to be about overall Kauai usage. I've answered Q7 assuming its about Kaua`i usage. It's based on my knowledge that oil prices in the main will continue to rise and that our way of life, our cost of living and the health of island and planet is at risk. These are not future pressures. They are present pressures that will not go away.	3	
We know what the pressures are, no excuse to ignor the facts and warnings about Global warming and fossil fuel addiction.	4	
I can deal with an occasional blackout in the beginning.. learn to love windmills and we can landscape out just about all else..I would expect to pay more to get more in the end..thinking the prices will then go down eventually!!	5	
I was talking about wind turbins with a lady and she was against them because "they would be ugly". I pointed out the mass and mess of wires strung everywhere on the island and pointed out that those wires and all the poles holding them were what was ugly. Visit a neighborhood with underground utilities and see what a difference it makes. Those who talk about "ugly" have not done much thinking about the subject. There are new wind energy harvesters that don't have blades hundreds of feet wide. They're built as a column and don't present a danger to birds and no noise pollution. But the controlled media keeps those developments well hidden. You hae to go on the internet to find out about things like that.	6	
TIme is of the essence	7	
NONE	8	
The island survived for years without power. Escalating costs of oil and electricity will economically turn the clock back for local people or encourage only the elite to be the inhabitants of the island. The questions is how much can people afford with the economice capacity of Kauai?	9	
Decision making incompetants.	10	
<i>answered question</i>		
<i>skipped question</i>		<b>39</b>

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Section 2: Vision and Goals

9. How do you prioritize the following issues from most important to least important?											
Answer Options	1: Most Important	2	3	4	5	6	7	8: Least Important	Rating Average	Response Count	
Environmental sustainability	21	18	17	17	8	3	3	3	3.10	90	Most Important
Community benefits (convenience, cleanliness, and improved health)	22	20	10	13	13	13	4	2	3.41	97	
Oil independence	24	15	6	14	12	7	6	6	3.56	90	
Economic development and diversification	10	16	20	15	11	10	8	4	3.88	94	
Relief from high energy prices	11	14	10	13	14	16	12	7	4.40	97	
Green jobs creation	3	4	22	11	19	11	9	12	4.85	91	
Regulatory and utility business model reforms	4	4	10	11	12	22	19	11	5.37	93	
Social equity issues	2	7	4	4	5	11	29	34	6.35	96	Less Important
<b>Other (please specify) and/or Comments:</b>										6	
The social equity issue is fabricated. If individuals invest in energy efficiency and renewables, they bear the cost of capital investment and returns from the investment. If the utility had to make the capital investment, all customers would be paying for that capital investment.										1	
By putting health and convenience together, you disabled me from giving an accurate response. Health is very important, convenience is not. I put green jobs and economic diversification/development together in my mind, so did not rate green jobs creation separately. Social equity and high energy costs are the same to me, so I didn't rate high energy cost separately.										2	
Global warming: loss of species, melting of ice leading to higher sea with loss of land mass, hotter temps, dryer weather, etc.										3	
OK..this was pretty hard to rate as most of these issues I would rate high.										4	
If we eliminate corruption and incompetence everything will fall into place. It is people with vested interests who are holding back progress.										5	
Let's get-r-done										6	
									103	103	
									29	29	

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Section 2: Vision and Goals

10. Please provide any other comments, questions, or concerns you have regarding Visions and Goals.	
Comments	Response Count
KIUC's strategic plan calls for 50% renewable energy by 2023, not 2020.	1
If the county is serious about long-term investment of time and money into securing a healthy energy future for Kauai, it should probably have a permanent full-time (vs. temporary/project-based full-time) position dedicated to energy coordination.	2
Coop members should be encouraged to invest in renewables. For the cost of a truck or SUV, homeowners can own a renewable energy system that will provide most of their energy requirements. If the utility invests in helping to standardize these systems and making them less custom, you would increase the market penetration and reliability of the systems, and reduce the costs. Then the coop could concentrate on providing storage capacity to make the power firm. If they insist on providing all the renewables themselves, and charging an 11% profit on it like KE did, we are no better off. This paradigm has to change.	3
Use material from the enlightened ones before us, educate the public about the emergency situation to Global warming and how it affects us personally. Make Kauai a model community for Sustainable energy now.	4
I feel we need to get past the campfire chat and make an action plan.	5
Do more than take a public survey. People want action not surveys. Do something, even if it's wrong. At least you'll be trying. People forgive honest mistakes but it's impossible to forgive corruption and incompetence.	6
I hope that in the future the energy efficiency becomes a lot better than what it is now.	7
more green jobs	8
What are some plans?	9
With new energies will this help out the economy? or will it kill it?.	10
Having a President who is not mentally retarded now affords us the opportunity to begin doing all that is needed to reach sustainability	11
to create affordable independence would be the goal, also on all other levels ,starting with food ....	12
<i>answered question</i>	12
<i>skipped question</i>	112

Section 3: Demographics

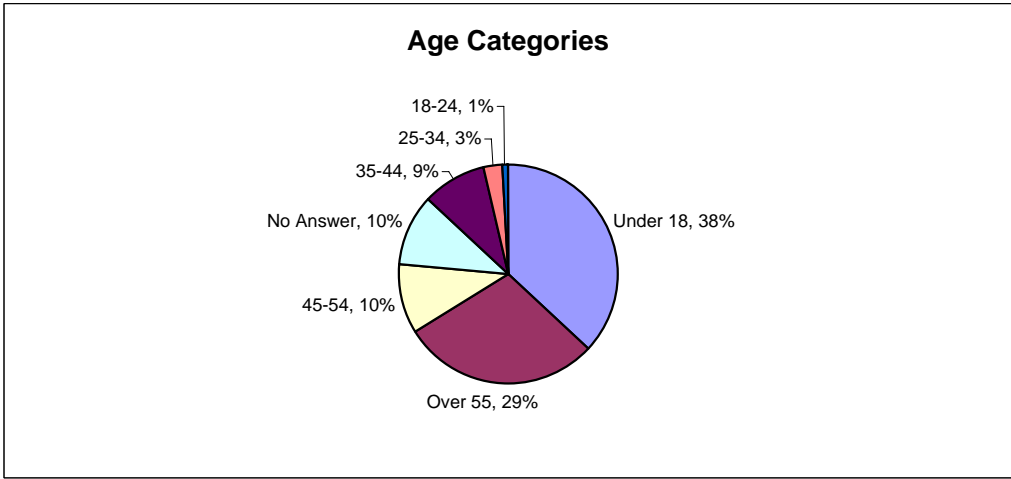
Renewable Energy Stakeholder Questions for the Kauai Energy Sustainability Plan  
**SECTION #3: Demographics**

**11. What is your age?**

Answer Options	Response Frequency	Response Count
Under 18	36.8%	39
Over 55	29.2%	31
45-54	10.4%	11
I prefer not to answer this question.	10.4%	11
35-44	9.4%	10
25-34	2.8%	3
18-24	0.9%	1
<i>answered question</i>		<b>106</b>
<i>skipped question</i>		<b>26</b>

Most Participation

Least Participation



**12. What is your ethnic identification? (If more than one, with which do you identify the most)**

Answer Options	Response Frequency	Response Count
Caucasian	30.5%	32
Hawaiian or part-Hawaiian	18.1%	19
Japanese	14.3%	15
Filipino	12.4%	13
I prefer not to answer this question	12.4%	13
Other	6.7%	7
Mixed, non-Hawaiian	5.7%	6
<i>answered question</i>		<b>105</b>
<i>skipped question</i>		<b>27</b>

Most Participation

Least Participation

Kaua'i Energy Sustainability Plan Survey Results

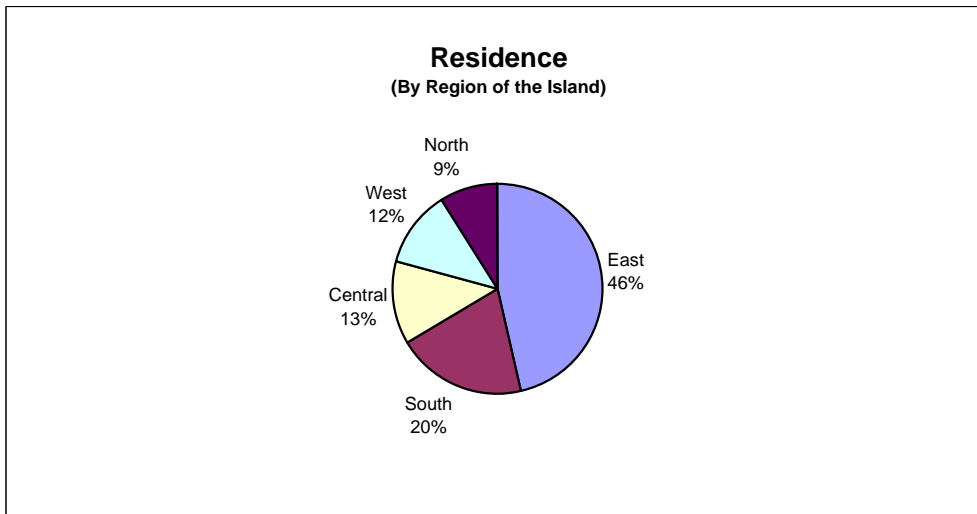
Section 3: Demographics

13. Which description best describes you?		
Answer Options	Response Frequency	Response Count
I am a resident of Kaua`i.	94.7%	107
I reside outside of Kaua`i.	5.3%	6
<i>answered question</i>		113
<i>skipped question</i>		19

14. For residents of Kauai, in which region of the island do you live?		
Answer Options	Response Frequency	Response Count
East	46.5%	47
South	19.8%	20
Central	12.9%	13
West	11.9%	12
North	8.9%	9
<i>answered question</i>		101
<i>skipped question</i>		31

Most Participation

Least Participation

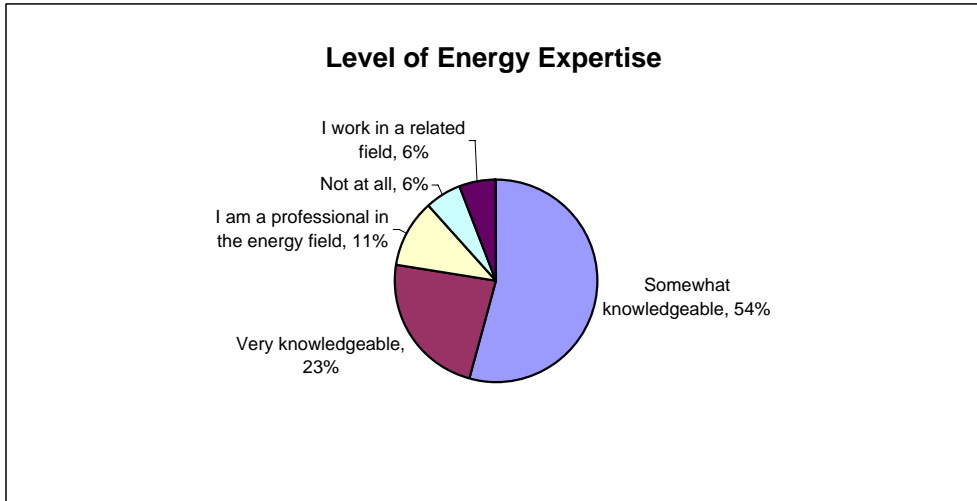


Section 3: Demographics

15. How knowledgeable are you on clean energy issues and technologies?		
Answer Options	Response Frequency	Response Count
Somewhat knowledgeable	59.1%	65
Very knowledgeable	25.5%	28
I am a professional in the energy field	11.8%	13
Not at all	6.4%	7
I work in a related field	6.4%	7
<i>answered question</i>		<b>110</b>
<i>skipped question</i>		<b>22</b>

Most Participation

Least Participation



16. There is a second part of this survey that asks more technical questions that relate to sustainable energy policies, technologies, barriers, and solutions. We ask that you only answer the second part of the survey if you are familiar with energy technologies and issues. Would you like to answer the second portion of the survey?		
Answer Options	Response Frequency	Response Count
Yes, please let me answer technical energy questions.	46.4%	51
No, I would rather not answer technical questions.	53.6%	59
<i>answered question</i>		<b>110</b>
<i>skipped question</i>		<b>22</b>

Kaua'i Energy Sustainability Plan Survey Results

Section 4: Policy and Regulation

Renewable Energy Stakeholder Questions for the Kauai Energy Sustainability Plan		
<b>SECTION #4: Policy and Regulation</b>		
<b>17. TRANSPORTATION: Which policies, incentives, and regulations would make this sector more sustainable in Kaua'i? (Check all that apply)</b>		
Answer Options	Response Frequency	Response Count
Smart growth or sustainable community policies	76.5%	39
Electric Vehicle or Plug-in Hybrid Electric Vehicle incentives	64.7%	33
Biofuels incentives	49.0%	25
Enforceable Renewable Fuel Standards	47.1%	24
Gasoline or carbon tax	45.1%	23
Carpooling policies	33.3%	17
Telecommuting policies	31.4%	16
Electric Vehicle or Plug-in Hybrid Electric Vehicle mandates	31.4%	16
<b>Other (please specify):</b>		<b>7</b>
better bus services to bedroom communities; provide electric charging stations for electric vehicles at max 25 mile intervals - at Lihue, Kapaa, Kilauea or Princeville, Koloa, Kalaheo, Eleele, Waimea		1
EMPLOYERS OFFERING FREE BUS PASSES OR ALLOWING BUS COMMUNITY EXPENSES TO BE INCLUDED IN FLEXIBENEFITS PROGRAM. PARKING METER IN TOWN. TURNING THE HIGHWAYS DIVISION OF THE STATE TRANSPORTATION DEPARTMENT INTO A LAND TRANSPORTATION DIVISION. MORE FUNDING FOR TRANSIT. A FLOOR ON OIL PRICES THAT WOULD PROVIDE A DISINCENTIVE TO RELY ON CARS AND PROVIDE GOVERNMENT WITH MONEY TO CREATE A MORE MULTI-MODAL COMMUNITIES.		2
Reduce commuting distances		3
The most efficient method of mass transportation was the electric trolley a hundred years ago. They were bought up by companies like General Motors who closed them down to sell more cars. Cars resulted in more profits to the auto industry and the oil industry than could be made with electric trains. An electric train could run from the Navel station to Hanalei taking people to and from work. Every day there are 7,000 rental cars on Kaua'i's highways. Make the tourists pay and extra \$10/day fee to clog up our highways with their stupid driving. That would be \$70,000/day to pay Kauaians to lay rails for the electric trains. The trains could eventually be routed up to Koke'e and Alakai swamp and various beautiful scenic spots where they could get off and enjoy the beauty. Locals could vend foods, crafts, etc rather than the tourists going to Walmart or Kmart and buying Kauai curios that were made in China or the Philippians. More jobs and money for locals and a unique experience for visitors. As it is, they drive around the island not knowing where they're going or what they're going to do when they get there. It wouldn't even have to be electric trains. That train beside KCC is steam and steel wheels on steel rails, more bike trails, rail bikes, taxi bus		4
Hydropower energy		5
extended public transportation ,buidling of bicycle paths all over ....		6
		7
	<i>answered question</i>	51
	<i>skipped question</i>	81

Kaua'i Energy Sustainability Plan Survey Results

Section 4: Policy and Regulation

<b>18. ELECTRIC: Which policies, incentives, and regulations would make this sector more sustainable in Kaua'i? (Check all that apply)</b>		
<b>Answer Options</b>	<b>Response Frequency</b>	<b>Response Count</b>
Initiatives related to energy efficiency and demand reduction	70.0%	35
Investment tax credits	60.0%	30
Incentives for local biofuels or bioenergy	56.0%	28
Feed-in Tariffs (require utility to purchase renewable electricity at specified rates)	56.0%	28
Utility decoupling (stop linking increased electricity sales to utility profits)	54.0%	27
Streamlined permitting and siting	52.0%	26
More stringent building codes and standards relating to energy	50.0%	25
Production tax credits	48.0%	24
Changing the current Renewable Portfolio Standards	44.0%	22
Fuel import taxes	32.0%	16
<b>Other (please specify):</b>		<b>6</b>
increase net metering immediately to 5%		1
KIUC is a coop and as such, does not make profits.		2
minimum floor pricing for renewable energy		3
Utility profits are NOT linked to sales on Kauai. KIUC is not for profit.		4
Prosecute corruption so as to set an example and notify the vested interests that it's no longer "business as usual".		5
mandatory solar water heaters ,solar panels .		6
	<i>answered question</i>	<b>50</b>
	<i>skipped question</i>	<b>82</b>

<b>19. Please provide any other comments, questions, or concerns you have regarding Policies and Regulations.</b>	
<b>Answer Options</b>	<b>Response Count</b>
energy education in schools and workplace; larger incentives to landlords to provide solar hot water and energy efficient buildings and appliances for rentals and commercial buildings	1
These questions lack an understanding of how Kauai developed the way it did and how electricity is provided.	2
Get the county to cooperate in regulating Temps in co buildings and also state bldgs. goal- 76 degrees. Build schools and others structures with open windows facing trades, and ceiling fans. Solar water heaters mandated on all new houses, resorts and public buildings. Fine them if not followed. Require schools to teach environmental/ energy/ recycling classes starting in Kindergarden.	3
biofuel	4
If Smart Grid is implemented then this is where net metering policies can become a benefit to home owners that produces their own electricity and stored energy. Guidelines of the safe practices of installation of home produced energy systems needs to be developed.	5
	<i>answered question</i>
	<b>5</b>
	<i>skipped question</i>
	<b>126</b>

Kaua'i Energy Sustainability Plan Survey Results

Section 5: Technologies

Renewable Energy Stakeholder Questions for the Kauai Energy Sustainability Plan  
**SECTION #5: Technologies**

**20. TRANSPORTATION: What sustainable transportation technologies do you feel are the most promising and appropriate for Kaua'i?**

Answer Options	Very promising/appropriate	Somewhat promising/appropriate	Not promising/appropriate at all	No Opinion (N/A)	Response Count	Average Ranking (MH STAT)
Public transportation	30	17	1	2	50	37.5
Plug-in hybrid electric vehicles (PHEVs)	23	19	7	1	50	25.5
Electric Vehicles (EVs)	22	18	9	1	50	22
Walking or cycling	17	23	9	1	50	19.5
Ridesharing or carsharing	17	21	10	1	49	17.5
Flex fuel vehicles	14	24	9	3	50	17
Hydrogen fuel cell vehicles (FCVs)	11	23	14	2	50	8.5
<b>Other (please specify):</b>					5	
Unless fuel source is renewable, electric/hydrogen vehicles move the problem from the gas station to the power plant.					1	
HOV lanes, complete streets (if these seem not to be technologies, neither is walking or public transportation), good community planning.					2	
An electric trolley (train) following the same route as the bus would be the most efficient method of moving people around the island. For a model look up the South Shore electric trains that go between Chicago and South Bend, Indiana. A properly designed vehicle captures the energy that would otherwise be lost when the vehicle brakes. It's a very efficient means of transportation. And, just like the South Shore, people would become accustomed to it and learn to depend on it. On board the train internet could be provided, television to watch, maybe even a cocktail car. Instead of the frustrating experience it now is, it could be a pleasant ride. But it takes guts and vision to make big dreams happen.					3	
Must consider low fuel consuming vehicles as appropriate.					4	
water cars					5	
					<i>answered question</i>	50
					<i>skipped question</i>	82

Most Promising/

Least Promising/

**21. ELECTRIC: What renewable resource technologies do you feel are the most promising and appropriate for Kaua'i?**

Answer Options	Very promising/appropriate	Somewhat promising/appropriate	Not promising/appropriate at all	No Opinion (N/A)	Response Count	Average Ranking (MH STAT)
Solar Photovoltaic (distributed, rooftop)	29	17	2	2	50	35.5
Hydro	28	17	3	1	49	33.5
Solar Photovoltaic (centralized, large scale)	26	16	6	2	50	28
Ocean current, wave or tidal energy	23	20	6	1	50	27
Biomass combustion	25	16	8	1	50	25
Concentrating Solar Power (CSP)	21	17	5	6	49	24.5
Wind (centralized, large scale)	19	22	8	1	50	22
Biofuel-powered turbine and engine generators	20	17	7	2	46	21.5
Wind (distributed, small scale)	20	17	10	2	49	18.5
Algae to biofuels	14	23	8	5	50	17.5
Waste-to-Energy using municipal solid waste (MSW)	19	17	11	2	49	16.5
Solar Thermal with Organic Rankine Cycle (ORC) generator	15	13	6	16	50	15.5
Ocean Thermal Energy Conversion (OTEC)	14	21	10	5	50	14.5
Stationary Fuel Cells	7	23	14	6	50	4.5
<b>Other (please specify):</b>					4	
OTEC somewhat promising but probably not in any midterm timeframe					1	
There are cost, technology, and environmental (endangered birds) barriers to each of these options.					2	
energy efficiency; why are you neglecting NEGAWATTS? the least expensive solution is energy efficiency, including solar hot water. you are also neglecting propane opportunities to meet part of our energy requirements better than electricity.					3	
Distributed generation using current fuels and less long feed lines (microgrids reduced current resistance) uses less fuel.					4	
					<i>answered question</i>	50
					<i>skipped question</i>	82

Most Promising/

Least Promising/

Kaua'i Energy Sustainability Plan Survey Results

Section 5: Technologies

22. ELECTRIC: What demand reduction technologies do you feel are the most promising and appropriate for Kaua'i?						
Answer Options	Very promising/appropriate	Somewhat promising/appropriate	Not promising/appropriate at all	No Opinion (N/A)	Response Count	Average Ranking (MH STAT)
Solar water heating systems	42	4	1	1	48	43
Green building design practices (passive lighting, water savings, materials selection, etc.)	39	9	1	1	50	42.5
Energy efficiency in homes and buildings (lighting, HVAC, controls, etc.)	41	6	2	1	50	42
Smart Grid and Advanced Metering Infrastructure (AMI)	23	19	5	3	50	27.5
Solar thermal absorption chiller air conditioning	17	19	8	5	49	18.5
Microgrids (local energy distribution network)	15	17	11	7	50	12.5
Sea water air conditioning (SWAC)	11	17	13	8	49	6.5
<b>Other (please specify):</b>					3	
on demand water heater backup for solar hot water heaters; natural ventilation - orientation, windows and attic; building design, ref. Hawaiian Design by Kent Royle, AIA & Cliff Terry, AIA					1	
Place a \$1.00/each tax on old style resistance light bulbs to induce people to buy new, more energy efficient bulbs. Place zero tax on LED light bulbs.					2	
If we want to see an increase in our homeowner produced energy, we need to develop our Smart Grid and AMI technologies.					3	
					<i>answered question</i>	50
					<i>skipped question</i>	82

Most Promising/

Least Promising/

23. ELECTRIC: What energy storage solutions do you feel are the most promising and appropriate for Kaua'i?						
Answer Options	Very promising/appropriate	Somewhat promising/appropriate	Not promising/appropriate at all	No Opinion (N/A)	Response Count	Average Ranking (MH STAT)
Pumped Hydro	20	21	5	3	49	25.5
Utilizing dispatchable renewable energy technologies (for example, biomass or biofuel-powered generators)	22	16	6	3	47	24
Batteries	20	17	11	2	50	17.5
Hydrogen	12	20	11	7	50	11
<b>Other (please specify):</b>					6	
electro mechanical					1	
zinc oxide batteries and concentrating solar zinc reduction (to recharge the zinc oxide batteries)					2	
Gravity powered Hydro. We already have too much pumped hydro. Take a look at the County Water dept. there is a lot of wasted energy there.					3	
Keep the oil fired generating units for back up for those cloudy days when there's no wind and the ocean is flat.					4	
molten salt, fly wheel					5	
Transporting hazardous fuel on demand may be dangerous.					6	
					<i>answered question</i>	50
					<i>skipped question</i>	82

Most Promising/

Least Promising/

Kaua'i Energy Sustainability Plan Survey Results

Section 6: Barriers and Solutions

Renewable Energy Stakeholder Questions for the Kauai Energy Sustainability Plan						
SECTION #6: Barriers and Solutions						
24. Of the following barriers to sustainable energy, which do you feel are most important to analyze and overcome?						
Answer Options	Significant	Average	Minor	No Opinion (N/A)	Response Count	Average Ranking (MH STAT)
Lack of understanding of overall costs and benefits	30	18	1	1	50	38
Insufficient policy support	32	14	2	2	50	37
Lack of data on best energy storage and "firming" technologies	20	23	3	4	50	28.5
Siting/permitting slowdowns	25	15	5	4	49	27.5
Inflexible or overly restrictive environmental regulations	21	21	6	2	50	25.5
Underdeveloped supply chain for sustainable energy technologies	22	19	6	2	49	25.5
Cultural, social, or NIMBY (not in my backyard) sensitivities	25	15	7	2	49	25.5
Unwillingness to pay higher short-term rates	19	22	7	2	50	23
Utilities being compensated for increased electricity sales	22	16	9	3	50	21
Insufficient innovative financing tools and options	19	18	9	4	50	19
Lack of skilled workforce	12	27	7	2	48	18.5
<b>Other (please specify):</b>						<b>4</b>
Lack of shared vision/understanding of a preferred sustainable energy future for Kauai.						1
Utility obstruction to individual implementation of renewables and procrastination in providing storage capacity to firm privately provided renewable power; KIUC resistance to distributed power and Smart grid						2
If people were educated they would look at windmills and wind farms as a beautiful thing for the good of the whole.						3
Higher short term rates? We already pay the highest price in America and why? Corruption and incompetence. Those are the main barriers to getting a rational energy plan in action.						4
<i>answered question</i>					<b>50</b>	
<i>skipped question</i>					<b>82</b>	

Most Important

Least Important

Kaua'i Energy Sustainability Plan Survey Results

Section 6: Barriers and Solutions

25. Of the following strategies to overcome barriers, which do you feel are most important to implement?						
Answer Options	Most Important	Average	Least Important	No Opinion (N/A)	Response Count	Average Ranking (MH STAT)
Scope out high-impact energy saving opportunities such as water and wastewater, schools, hospitals, community colleges, state and county buildings, judiciary complexes	36	10	2	2	50	39
Encouraging project stakeholders (Kauai County, KIUC, developers and land owners) to work together	33	12	3	2	50	36
Adopting more stringent, energy-related building codes	24	19	3	3	49	30.5
Feed-in Tariffs to mitigate the risks that slow or stop renewable energy development	26	11	4	9	50	27.5
Forming public/private partnerships with land owners to revitalize the agricultural economy by investing in bioenergy	26	15	8	1	50	25.5
Encourage R&D (for example on algae-to-fuels, pumped hydro, PHEVs, cellulosic ethanol, ocean energy, etc.)	23	17	7	3	50	24.5
Utility decoupling (stop linking increased electricity sales to utility margins)	22	19	8	1	50	23.5
Training requisite work force for green jobs	16	23	8	2	49	19.5
Encouraging technology validation of plug-in hybrid vehicles (PHEVs)	16	20	10	3	49	16
Opening up doors to outside investors, e.g. from the Mainland, Asia, and Europe	8	25	13	3	49	7.5
<b>Other (please specify):</b>						<b>4</b>
explain feed-in tariffs more clearly - the problem is energy storage and grid configuration, and not financial since KIUC wants to invest in centralized renewables but not allow much in distributed renewables on rooftops through net metering						1
Land use and smart growth are key to reducing dependency on automobile and vehicle miles traveled (VMT) based on per capita rate and overall miles.						2
Encouraging project stakeholders to work together? Yeah, they're going to work together all right. They're going to work together to fleece the public just like they've been doing since.....						3
There should be a set of Policies on self or home power producers. Noting Electrical, Plumbing, building, and waste disposal of all which must meet the health standards and regulations.						4
<i>answered question</i>					<b>50</b>	
<i>skipped question</i>						<b>82</b>

Most Important

Least Important

26. Please provide any other comments, questions, or concerns you have regarding Barriers and Solutions.	
Answer Options	Response Count
KCC energy education facility - building design and technology training, advanced systems facilities maintenance training, green technology training - offer AA, invest in our youth for work here and elsewhere - work coop with resorts, government and businesses	1
KIUC has done a lot of work on renewable energy systems, but they are gun shy. They hide behind their regulated utility shield. They need to be drawn out of their shell without getting slapped around.	2
Provide heavy penalties for corruption, collusion and false statements and stick it to those who misuse and disrespect the public trust. Make examples out of them that the public will not tolerate the old way of doing business.	3
County should open up more county owned land for leasing options for economic development. In turn the leasing of lands will become an alternative revenue source for county budget. The County can also partner with Federal owned or Privately owned land owners to develop these industrial parcels.	4
Cultural sensitivity and NIMBY are very important issues and are not something to just "overcome." The Hawaiian culture is very important and not something to just gloss over because the people get in the way. Our main economy dictates a lot of how and what will work for Kaua'i. Statements like "Kaua'i has to get with the program" are not ways to help move this process forward.	5
<i>answered question</i>	
<b>5</b>	
<i>skipped question</i>	
<b>126</b>	

