



A forum for women working toward a Hawaii
powered by clean energy.



Aloha WiRE Community,

We are excited to share the results of the WiRE Community Survey with you! Remember, these survey results are informal and are not statistically significant, nor representative of the regular population. Instead, they are ***your*** answers to common questions we've been hearing from policymakers, businesses, government and industry about energy. We will use the information gathered here to plan future WiRE events and to inform other planning efforts, like the Hawaii Clean Energy Initiative. We trust you to limit distribution of the results; this is intended for your information, not for the media.

Mahalo for helping to foster open dialogue and engagement!

WiRE Community Survey Results





1) Do you feel informed about energy issues?

Response	Chart	Percentage	Count
Yes		92.0%	80
No		8.0%	7
Total Responses			87

Comments:

#	Response
1.	Energy in Hawaii
2.	Establishing a news portal would be very helpful!
3.	To a limited degree, as my work has nexus to energy, but time is limited.
4.	I do not, however, believe that the general public is informed on energy issues.
5.	In general, I keep up with energy-related news and understand the big issues. It's not in my job wheelhouse so I am not intimately involved in the industry.
6.	Events like WIRE keep me more informed
7.	Deals are being made out of public scrutiny
8.	Would like to know more. It's been a few years since I was actively involved in renewable energy programs.
9.	Somewhat
10.	Somewhat
11.	I feel more informed than the average resident. However, I can imagine that the average resident may perceive energy issues as being very opaque.
12.	I have not kept up

2) Pursuant to statute, the new 100% renewable portfolio standard (RPS) by 2045 must be undertaken in a manner that benefits Hawaii's economy and all electric customers, maintains customer affordability, and does not induce renewable energy developers to artificially increase the price of renewable energy in Hawaii. Please complete the following sentence: I feel the 100% by 2045 RPS is ...

Response	Chart	Percentage	Count
Totally achievable		26.1%	23
Achievable, but a stretch		30.7%	27
Achievable, but seems only aspirational		35.2%	31
Not achievable		8.0%	7
Total Responses			88




Comments:

#	Response
1.	The fight between DG vs. utility-owned renewables will most likely still be happening 20 years from now
2.	Anything is possible if price is not an issue. The challenge to 100% renewable by 2045 will be to maintain affordability and reliability at the same time.
3.	Achievable, but at what cost?
4.	A 100% switch to renewable is not necessarily the best option for everything and everyone!
5.	We need to make the investment now.
6.	If we don't strive for this with the belief that it can happen, we are jeopardizing our children's future.
7.	But there has to be political will.
8.	Hoping that coal, ethanol and natural gas-derived energy are no longer included in the definition of 'renewable'.
9.	Need specific plans and steps to attain this goal. 2045 is too far into the future. We need this in the next 10 years or sooner.
10.	I need to see the strategic plan to believe this is achievable. It is only a goal, until there is a plan this means nothing. How are we going to achieve this with our current infrastructure? Too many unanswered questions, and also what technology will help us achieve this, is there anything out there currently? Storage is the tipping point here, if technology develops affordable storage then we can have this discussion, and who will pay for the storage

infrastructure? Where does our utility come into play with this goal?
11. need a sytematic approach to achieving this endstate w/o deferrence to special interests
12. think we all need to change our mind set for this to happen, especially for Oahu
13. I feel that the 100% RPS goal is achievable bu the question will be at what cost to Hawaii
14. We would likely need to keep generators on standby in case of emergencies.
15. I feel it is achievable if the correct policy structures are in place to get us there. The term "cost-effective" is often thrown around and not defined. It would be nice to have a distinct way this is defined, especially as the statute includes a lot of off-ramps for the electric utilities to not comply with the 100% standard.
16. Achievable, if all parties - from the legislature, regulators, utility and renewable energy developers - work together
17. People are misled by the use of RPS. There will be misinformed expectations.
18. HECO's resistance and failure to move forward makes it tough.
19. The key is ability to obtain efficiency and economical energy storage. In addition, we will need to be able to maintain voltage and frequency levels on the grid.
20. I think this is unrealistic and is it even desirable? There is no mention of energy efficiency which should always be considered when contemplating renewable energy.
21. Customer affordability is hard to define.
22. Concerned about policies keeping up with aspirations - need to ensure that respective Counties and State as a whole support and enable policies that will lead to implementation and remove unnecessary barriers
23. The law does not address the total cost impact to residents and businesses from adding all of the new renewable generation and related technologies (i.e. "smart" system management, new transmission, battery backup, etc.), as well as the analysis of the economic impact to the state from the higher prices, which are critical components in energy planning. This sets an aspirational "gold standard", but can our residents afford it? Are Hawaii businesses and residents also ready to deal with the potential reductions in the reliability and performance of the electric system?
24. I think it depends on advancement in technology.
25. Great point about increasing prices!!
26. I'm worries this will push for LNG to pick up the pace rather than focus on solar and wind, etc.
27. Not achievable in a manner that maintains customer affordability
28. While it is an admirable goal, I couldn't find information/analysis supporting the policy.

3) Do you feel like you know what the State's energy plan is?



Response	Chart	Percentage	Count
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Yes, it is clear to me		6.8%	6
Aspects of it are clear to me		63.6%	56
Not very clear to me		29.5%	26
Total Responses			88

Comments:

#	Response
1.	Do we really know the tradeoffs in terms of cost, timing and logistics?
2.	It's been awhile since I looked at it and presumably it's being updated as conditions change and as we reach certain milestones.
3.	I don't think they have a real plan
4.	There is so much change, it would be nice if they printed or offered a downloadable copy for members of the public and people in industry to study and understand.
5.	need stronger policy and incentives for third-party funding of infrastructure projects across the islands
6.	It seems like each party has its own idea of what the State should be doing/how it should get there, but there is a lack of clarity on the State's part as to how it envisions us reaching the goal. It would be great if the State were more decisive and authoritative in its vision. Give everyone some direction so we start heading to the same place.
7.	The transportation plan is especially not clear
8.	Governor Ige needs to do a better job in leading in the energy area.
9.	I dont' think the state really has a clear energy pl
10.	Just because they make a statement doesn't mean they have a plan.
11.	The energy plans filed by Hawaiian Electric are clear, but they are based on the previous RPS. No plans exist for achieving the 100% RPS yet. No one else has done any real analysis on this level. In addition, EEPS is critical to achieving our energy goals, but the EE long term plans and policy priorities are not clear.
12.	I think they have a goal; still missing a plan. What are the tradeoffs? What will our choices now mean for the system long-term?
13.	Inter-agency collaboration is not clear to me

4) What should be done with State tax incentives for renewable energy?

Response	Chart	Percentage	Count
Increase tax incentives		30.4%	28
Keep the same level of tax		17.4%	16

incentives			
Gradually step down tax incentives		27.2%	25
Drastically reduce tax incentives		12.0%	11
I don't know		13.0%	12
Total Responses			92

Comments:

#	Response
1.	If a business cannot survive without subsidization after a few years, maybe it shouldn't be in business.
2.	Market-driven solutions as much as possible
3.	it can be applied differently to all renewable sections.
4.	Incentives will be necessary as long as the petroleum industry continues to receive its huge subsidies.
5.	I believe we have a public interest in supporting renewable energy. We should use tax incentives to the extent that they support new technologies. For situations where businesses/residents would get a pay-back in energy savings, tax incentives are not needed. Better to use programs such as on-bill financing to support the initial investment.
6.	Capital costs are steep. We need government to offer incentives to both residential and commercial customers to implement these important changes to convert to renewable energy.
7.	Think they should be kept but possible revamped
8.	Definitely not increase it, but not sure whether it would be best to just leave as is or to gradually step it down.
9.	The economics of renewables is very complex. I believe renewables do need incentives if they are treated as options for the individual. Government agencies and large energy consumers may be a better place to start with incentives- not necessarily tax incentives.
10.	the tax credits need to be refreshed to reflect industry changes
11.	Regarding solar tax incentives, my understanding was the purpose was to give this new industry a hand in getting started. It is now a full fledged industry and no longer needs such a large helping hand.
12.	We should show that renewable energy is viable even without subsidies so that it sends a clear message that this is the future of energy
13.	Increase then gradually step down.
14.	Support tax incentives that provide benefit for ALL residents, not only for individual owners of small systems (such as PV) that only benefits them.

15.	Step down in accordance with the 2045 timeline
16.	While at the same time taking steps toward enacting policy which encourages and enables greater private-sector investment in renewable energy technology, innovation, generation, infrastructure, etc.
17.	The tax credits were supposed to go to funding solutions. instead it's gridlocked and/or being used carelessly to benefit a few individuals.
18.	We need to be smart about how we deploy tax incentives. What are the unintended consequences? Do they create social inequities? Are incentives the best way to achieve our energy goals, and whose behavior are we trying to incentivize now?

5) What should be done with the minimum charge for net meter customers?

Response	Chart	Percentage	Count
Increase the minimum charge for net metering customers		49.5%	46
Keep the same minimum charge for net metering customers		21.5%	20
Decrease the minimum charge for net metering customers		12.9%	12
I don't know		16.1%	15
Total Responses			93

Comments:

#	Response
1.	Different rates for peak hours will help to control usage
2.	Charge should be equivalent to T&D costs per meter
3.	I am fine with a minimal minimum charge for administrative services. I feel it is offensive to penalize those people/companies that are helping convert to renewable energy by charging them an additional fee. Charge the ones that do not convert and additional fee that rises every year.
4.	Customers should be charged on a scaled basis
5.	Or reduce
6.	I am a net metering client, however \$17.80 a month is not enough to support the infrastructure and maintenance of the grid.... Lets be realistic.
7.	work out an equitable rate between the utility and distributed power generators

8.	the charge should be based on system size and should not be a flat rate. It should also consider and penalize a system if it is excessively backfeeding suggesting an oversized system.
9.	I think there is some validity to Hawaiian Electric's argument for increasing the min. charge for NEM customers, however, I also believe there are a lot of benefits from DG that are not being recognized by the utility. I would support a reasonable increase to the min. charge for NEM customers only if it went alongside an equal min. charge increase for non-net metering customers.
10.	Current customers should be grandfathered in to their tariff structure, but new customers should pay for the services they receive, as not to place the burden on non-participants.
11.	Depends on what the fee is for and how it is calculated.
12.	HECO gets the benefit of unused credits so the minimum charge should be decreased.
13.	increase min charge for all customers so all pay their fair share
14.	Everyone who uses the grid needs to pay for the capital costs of having the grid and the maintenance and operation costs of the grid.
15.	Net meter customers benefit from the grid too, it's available to them if they need it. And there is a cost to having that luxury, that all must share. We take for granted that when we flick the switch the lights always come on.
16.	Aging grid infrastructure requires that for now there needs to be some sharing of costs.
17.	All customers should pay the actual and full cost of services they use, without putting the burden on other customers who cannot afford, cannot install or do not choose to install PV.
18.	But more importantly - reduce the volumetric rate. Why should exports merit retail rate compensation?
19.	Increase the charge and maintain the program
20.	The NEM charge needs to be sustainable and equitable.
21.	This issue is complex and probably benefits from more options than simply changing a flat fee

6) What do you think is the most important area for the State to dedicate resources to? Pick up to three answers.

Response	Chart	Percentage	Count
Energy efficiency in state facilities		44.3%	39
Regulatory (PUC) capacity		52.3%	46
State energy office capacity		17.0%	15
Innovation		50.0%	44
Workforce development		21.6%	19

Planning and analysis		39.8%	35
Other, please specify...		25.0%	22
Total Responses			88

6) What do you think is the most important area for the State to dedicate resources to? Pick up to three answers. (Other, please specify...)





#	Response
1.	Constituent Education and Awareness
2.	Energy efficiency in general
3.	The State should set an example and put all its vehicles on renewable energy asap.
4.	Community education on sustainability including energy, agriculture, transportation and food sustainability
5.	transportation
6.	Grants and support to local small businesses versus supporting outside contractors coming into the state. Must do business or be a state resident for 2 years before they can participate in grants and government contracts.
7.	efficiency, not just with State offices, but mandated by the state to all commercial operators. A strategic plan needs to be developed for us to move forward to achieve our goals
8.	More efforts should be made to better assess how Hawaii can increase renewable energy manufacturing jobs such as in biofuel or biomass, which is more sustainable in the long term
9.	See comments
10.	Energy efficiency in all facilities and workforce development for state employees. Capacity is a HUGE issue and needs to be addressed internally with a paradigm shift & culture change.
11.	Community Outreach
12.	Solar expansion...ie roadways, public buildings, solar fields
13.	getting to our 100% goals
14.	Energy efficiency and conservation - Hawaii Energy
15.	Education of the children so they are ready to perform 21 jobs.
16.	Clean transportation planning
17.	Centralized, safe city transportation. More bike/walk areas like in Europe
18.	Policy enabling greater private sector investment in renewable energy sector in Hawaii
19.	Public outreach and education on planned changes and DSM and efficiency options
20.	Working Integrated Resource Planning

21. mult-disciplinary green goals: energy including transportation
22.

Comments:

#	Response
1.	Leading by example is good. Government facilities should be in the lead.
2.	Huge changes need to take place in the State before 2045. Planning the most efficient and wisest way of going about the shift is necessary.
3.	I think it is important for the State to have its hand in all 3 stages of change - planning, innovation, and regulation.
4.	Particularly on the transportation side of our state. A third of our use of oil is also going to transportation. The state should also examine this sector and
5.	With greater capacity at the PUC, regulatory change could occur faster, increasing the value of the initiatives that become possible. Planning and analysis through the lens of the state will allow for a neutral view on energy issues. Community Outreach will allow the communities in Hawaii to more effectively understand and participate in the energy discussion,
6.	Solar over wind and underwater cables
7.	Strategic economic planning is key. Incentives are only short term
8.	PUC needs resources to process applications quickly and efficiently.
9.	Regarding the energy environment for the state, the PUC needs more resources in order to handle the docket load. Waiting 2 or more years for a Decision and Order is ridiculous! The utilities are regulated because they have a monopoly, yet the legislature has allowed significant competition in that "monopoly" by solar contractors, yet the solar contractors aren't regulated. The utilities hands are tied in trying to implement effective and fair policies, because the PUC doesn't act on the dockets in a timely manner.
10.	The State Energy office duplicates efforts of other entities which have been tasked with implementing energy efficiency goals. This duplication is a waste of tax payer money.
11.	The question should be based on what policies and objectives should be a priority for the State and then look to where the resources are needed (i.e. R&D, etc.)
12.	We need more innovation - which ties into workforce development and building the energy system of the future.
13.	multi-disciplinary goals require collaboration!

7) How confident are you in our local capacity to achieve our energy transformation (i.e., do you think its sufficient for the next few years of energy transformation)?

Response	Chart	Percentage	Count
Extremely confident		7.0%	6
Confident		23.3%	20
Fairly confident		50.0%	43
Not confident at all		19.8%	17
Total Responses			86

Comments:

#	Response
1.	The energy efficiency needs to be more discussed instead of only renewable resources. The critical pints of renewables are rarely pointed at or taken seriously.
2.	Confident if State support continues to increase.
3.	There is little to no coordination between the counties and state. Maui county is exploring converting the utility to be county owned. Need a one stop shop that knows what all counties, state and federal are doing and what they are offering in the way of incentives, grants, etc. to small business.
4.	It seems to have been working up til now but it will be interesting to see what happens over the next few years as the challenges get tougher
5.	I am impressed by the collaboration that HECO pursued for our increase to 250% TOV. Hawaii is watched by nations all over the world, if we do it right it will set precedence on how other nations can move forward to become fully renewable. However we are nowhere near this goal.
6.	There needs to be a comprehensive plan for each island. Lots of talk about solar and wind but there are many obstacles to "doing the right thing."
7.	Confident, but do think we need to leverage our position as a renewabel energy leader to receive resource assistance from other places, whether it comes in the form of shared expertise, research, or funding.
8.	Again, we need capacity building at the state and county level as well as internal policy adjustments.
9.	I believe it will be difficult, however necessary for the transformation to occur.
10.	Lets not let windmills become the dominant source as with coal...
11.	If there is a holistic economic energy plan.
12.	HECO is the problem.

13.	this question is confusing!
14.	I'm not sure about Oahu, but I think the neighbor islands can achieve high levels of renewable generation.
15.	We need a leader, one person in charge of this energy transformation. Too many cooks in the kitchen.
16.	The leadership from Hawaiian Electric, the Governor, PUC and the business community is strong. However, the policies and decisions for the future years should be based on the greatest good for all customers (not on one business sector or political positioning).
17.	Decisions are still made as one-offs, not by looking at the whole integrated system.
18.	We need stronger resources at the PUC, more political will in the Legislature, more leadership from the Administration, more creativity and speed from the utility and a better educated local press in order to get there.

8) What kinds of changes are needed to achieve our energy transformation? Pick your top three answers.

Response	Chart	Percentage	Count
Make decisions faster		55.8%	48
Be more transparent		51.2%	44
Use more quantitative analysis		48.8%	42
Increase consideration of long-term impacts		68.6%	59
Be more participatory (bottom up)		30.2%	26
Be more centralized (top down)		15.1%	13
		Total Responses	86

Comments:

#	Response
1.	It is important to set mandates if we are to achieve the transformation as we have already seen what happens when we let the market decide.
2.	I only picked two. We do too much analysis and not enough action.
3.	collaborate globally.....
4.	Stop with the corporate lobbyists determining our energy future
5.	Need clear direction from the Governor and other leaders.
6.	People need to be realistic about the ability of the technology and the true cost of operating

	and maintaining the grid.
7.	More public outreach and education also needs to be integrated into overall strategy.
8.	The questions and options did not address energy efficiency, cost impacts and policies, which should be parts of the overall energy planning for the state.
9.	Implement OTEC as base load source.
10.	Public outreach and education is paramount and has so far been lacking. Private and public players must do more to garner support and educate local electorate/rate base AS WELL as advertise and solicit support from out-of-state public and private sources.
11.	We need more leadership -- the broad participation efforts have led to stagnation. Nothing gets done.
12.	Be smart about the science and economics of it

9) Do you feel like you know what NextEra/Hawaiian Electric's plan for the future is?

Response	Chart	Percentage	Count
Yes, it is clear to me		6.0%	5
Aspects of it are clear to me		33.7%	28
Not very clear to me		59.0%	49
Other, please specify...		1.2%	1
		Total Responses	83

9) Do you feel like you know what NextEra/Hawaiian Electric's plan for the future is? (Other, please specify...)





#	Response
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Comment:

#	Response
1.	I was not on-island when the public information session was held. I only know what I read in the paper.
2.	Feel a major change is needed from the outside as internally the utility has not been able to accomplish
3.	will NextEra really do what they are currently saying that they will do after the 2 year agreement?
4.	It is unclear what the real intentions are in terms of long-term plans. A lot is being said upfront to market the sale/make it attractive, but there is a lack of actual teeth to everything.

Nothing is being said about what will actually take place. And there must be a plan, you don't go acquire a company and not know what you're going to do with it/what your goals are. More transparency is needed.
5. I dont have trust in the PSIP's as an indicator, as past IRP's have not been shown to reflect the actual projects that are implemented.
6. Nextera is already behind in innovation....not keeping up with the solar potential, blinded by its blinders
7. NextEra has said they support the plans filed by Hawaiian Electric.


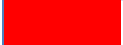




10) Do you feel you have enough information about NextEra's acquisition of Hawaiian Electric Industries?

Response	Chart	Percentage	Count
No, I need to know more information		21.0%	17
Not really, I only know the basic details but would like to understand more		48.1%	39
Yes, but, I would like to have a little more information		17.3%	14
Yes, I have enough information		12.3%	10
N/a - I don't care		1.2%	1
		Total Responses	81

Comment:

#	Response
1.	Once again, would like to know more of the ACTUAL plans, not just the fluff to get us to the approval of the sale.
2.	I think we get the hype...the rosey picture
3.	Relying on Puc to make the assessment.
4.	The docket question is whether or not NextEra is fit, willing, and able to manage HECO, MECO, and HELCO. Since they already manage a utility 10 times larger than the HECO companies combined and they are obviously a willing buyer, they should receive PUC approval.
5.	The acquisition is laid out in the filing to PUC. More information will be forthcoming as the details of the transaction are worked out.

11) What else do you want to know about the Hawaiian Electric acquisition? You may choose more than one and comment.

Response	Chart	Percentage	Count
Will my electricity bill go up or down?		42.9%	33
What does this mean for distributed resources?		74.0%	57
What does this mean for natural gas?		40.3%	31
Will Hawaii residents have more or less influence on the utility?		55.8%	43
What will this mean for new technology/innovation?		68.8%	53
What will this mean for charitable giving?		10.4%	8
		Total Responses	77

Comment:

#	Response
1.	What choices will the customer's have and will Next Era provide employment opportunities for local residents
2.	How can ratepayers be sure NextEra will be held accountable if its plans for renewable energy change?
3.	Why isn't the state demanding concessions as part of the negotiating process -- as has been achieved in other states?
4.	I understand bills will not go down for more than 10 years due to the needed work on our infrastructure. I oppose natural gas -- fracking is not good for anyone and damage is being done to provide us with the gas. We need more influence and transparency with our utility. We need new technology, state of the art and innovation.
5.	Their record is not as advertised...roof-top residential solar may be in peril
6.	need to be transparent with their plans and potential rate structures and be able to respond to questions like "will \$.25 per kWh be achievable in the near term?" why or why not
7.	What are the plans. What are the goals.
8.	i do not want our electricity controlled by the profit motive. it is behind the times. young innovators ideas are not included.
9.	What other advantages besides greater capital and economies of scale in purchasing will NextEra bring to this acquisition?
10.	I hope an experienced, sophisticated company can take us to the next level
11.	When do we start seeing changes being implemented?

12.	All of the above and I would like to see sooner than later, some direct response from the utility to these questions.
13.	Besides lowering bills, what benefits can NextEra bring to Hawaii?
14.	what will this mean for 3rd-party investment /competition across the utility/renewable energy sector in Hawaii?
15.	Are they going to monopolize energy sources? i.e. take over all new projects, manipulate the competitive market for development?

12) In the future, what do you want to see most from your utility? Please choose your top three from these suggestions or add your own: Actionable, real-time usage information; Low rates; Stable/predictable rates; Ease in installing your own technology (DG, batteries); High power quality; Minimum outages; Easier to read electric bills; Other.

12) In the future, what do you want to see most from your utility? Please choose your top three from these suggestions or add your own: Actionable, real-time usage information; Low rates; Stable/predictable rates; Ease in installing your own technology (DG, batteries); High power quality; Minimum outages; Easier to read electric bills; Other. | 1.

#	Response
1.	Actionable, real-time usage information
2.	Actionable, real-time usage information
3.	Ease of installing your own technology
4.	Reliable power
5.	Incentives for Off Peak usage
6.	Stable rates
7.	Information
8.	Reliability - high power quality, minimum outages
9.	Innovation
10.	What employment opportunities will there be for the new utility (more, less, etc.)
11.	Stable predictable rates
12.	Ease in installing our own technology
13.	Clear plan to getting off fossil fuels and developing local sustainable sources
14.	Stable predictable rates

15.	Lower overhead costs
16.	Low Rates
17.	low rates
18.	Ease in installing your own technology (DG, batteries)
19.	Low, stable and predictable rates. Off peak usage discounts?
20.	actionable real time usage
21.	Adequate infrastructure to accommodate residential solar
22.	Greater energy efficiency
23.	innovation, decentralized grids...
24.	Plan for lng?
25.	Stable/predictable rates
26.	real time usage information
27.	greater transparency with customers
28.	stable predictable rates
29.	Less office politics
30.	Actionable
31.	Ease in installing my own technology, PV, batteries
32.	Low rates
33.	Ease in installing your own technology (DG, batteries)
34.	Stable/predictable rates
35.	Low, stable rates
36.	No LNG or other fossil fuel "bridge fuel" used before integrating more renewable energy. We need to move straight into more renewable energy and not invest in fossil fuels.
37.	Openness to Change
38.	Lower bills
39.	Current technologies that are really sustainable
40.	Lowered bills
41.	Reliability, emergency preparedness
42.	Low and stable rates
43.	Diversification to include renewable sources and gas
44.	Rewards for utilizing efficiency measures in home and for conserving energy during peak hours
45.	Lower rates

46. Long term planning
47. Stable, predictable rates
48. Stable predictable rates
49. High power quality
50. Commitment to energy sustainability
51. High power quality
52. Stable/predictable lower rates
53. broad range of options for customers
54. R&D - battery technology, smart grid,etc
55. Actionable, real-time usage information
56. Low ghg emissions
57. Minimum outages/Reliability
58. Better engagement with the PUC
59. State self-sufficiency in energy - no need for the importation of fossil fuels
60. Give consumers more control over their energy use and engage them as energy producers.
61. Actionable, real-time usage information
62. Smart grid - dynamic pricing
63. Minimum outages
64. Ease in installing your own technology (DG, batteries);
65. Revise business model to support electricity as a service, not a commodity
66. Global approach... Triple bottom line, people planet profit
67. transparency
68. Usage information
69. Lower and more stable rates
70. Faster move to renewable energy
71. increased transparency and equity
72. some big solar farm projects
73. Ease in installing your own technology (DG, batteries)

12) In the future, what do you want to see most from your utility? Please choose your top three from these suggestions or add your own: Actionable, real-time usage information; Low rates; Stable/predictable rates; Ease in installing your own technology (DG, batteries); High power quality; Minimum outages; Easier to read electric bills; Other. | 2.

#	Response
1.	Easier to read electric bills
2.	Ease in installing your own technology (DG, batteries)
3.	High power quality
4.	Lower rates
5.	More transparency from Utility
6.	Low rates
7.	lower rates
8.	the ability to lower my electric bill with time of use rates
9.	focus on the common good of the community
10.	What major milestones are ahead for the utility to fit into a 100% RPS
11.	Industry leader
12.	Stop blaming early adopters of solar for increasing utility rates
13.	Stable/predictable rates
14.	Minimum Outages
15.	More efficiency in working with IPPs
16.	Real-time usage
17.	Stable/predictable rates
18.	Demand response
19.	Actionable real-time usage information. An app for use on a home computer? Showing renewable into the system and usage from the grid.
20.	significant tou rates
21.	Low rates
22.	Low rates
23.	rates associated with peak demand times
24.	Low rates
25.	Home Battery Storage Issues
26.	realistic & actionable plans to achieve state goals

27. a plan that gets to reasonable rates consistent with mainland benchmarks
28. low rates
29. Run more like a business
30. Low Rates
31. Lower rates-our bill is the highest in the country and yet we have the most renewables!
32. Transparent rates
33. Take all the money it plans on spending to create the infrastructure for LNG and instead dedicate it to a true long-term solution of upgrading the grid.
34. Ease in installing your own technology (DG, batteries)
35. More choices
36. easy, fast and affordable to install own technology (DG, batteries, etc.) for houses and condos.
37. Predictable Rates
38. People Planet and then Profit
39. Price options with utility
40. Transparency
41. Lower rates
42. Real-time usage for all users
43. Stable/predictable rates
44. Participatory processes including stakeholder groups
45. Ease in installing own technology
46. Transition to renewable in a well thought out fashion
47. Minimum outages
48. Real-time usage information
49. Low rates
50. Actionable and real-time usage information
51. more community outreach regarding future plans/projects
52. Smart grid technologies to enable TOU
53. Easier to read electric bills
54. Low rates
55. Better communication to the public about the challenges of integrating renewables
56. Increase in ownership and control of electricity by the public
57. Promote efficiency and distributed energy, with the aim to avoid millions of dollars in

investments to repair or replace our aging energy infrastructure.
58. Reporting of what innovation they are implementing towards clean energy
59. Development of renewable generation
60. Lower bills
61. Stable/predictable rates
62. Proactive security measures to protect networked SCADA improvements
63. Win win solutions
64. lower rates
65. educated personnel to guide through energy choice decisions in a non-biased POV
66. Transparency and proactiveness
67. Equitable cost structure
68. meaningful, motivational time of use rates
69. ease in installing own when that is wanted
70. Stable/predictable rates

12) In the future, what do you want to see most from your utility? Please choose your top three from these suggestions or add your own: Actionable, real-time usage information; Low rates; Stable/predictable rates; Ease in installing your own technology (DG, batteries); High power quality; Minimum outages; Easier to read electric bills; Other. | 3.

#	Response
1.	Stable/predictable rates
2.	Low rates
3.	Non-entrenched procedure
4.	More self-services
5.	No big bonuses for the CEO
6.	no outages
7.	transparency regarding the requirements for DG and batteries
8.	innovation
9.	Good employer
10.	Lower shareholder profits and and give back to ratepayers
11.	Ability, ease and encouragement in installing own technology
12.	Installing own technology




13. More responsiveness to PUC directives, not stalling maneuvers
14. Ease in installing your own technology
15. High power quality
16. A different business model; rates tied to performance metrics
17. Easier to read utility billing.
18. ease in installing own technology
19. Understandable direction of utility
20. Actionable, real-time usage information and general transparency
21. increasing renewable energy in the portfolio
22. Smart system
23. Minimum outages
24. lower rates
25. allow me to install my own technology without delays or added expenses associated with the utility side of the meter
26. reliability generally--quality and minimum outages
27. more customer focused
28. transparency
29. Customer service
30. A true effort to do the right thing for the State, not just for itself or its customers and shareholders. Follow through of actions on their own. Not only when they are being penalized by the PUC.
31. Transparency
32. Renewable energy everyone can take advantage of
33. Lower rates into the distant future, which can only happen if we stop importing fossil fuels and use local renewables, that are secure and not dependent on price of oil, international politics, etc.
34. Close tie between value/cost of services in rate schedules
35. Become a B Corporation
36. Options for being off-grid
37. Less subsidization of renewable energy (tax incentives, NEM rates, etc.)
38. More stable and predictable rates
39. Options to invest in community renewable energy shares
40. Clear vision of where they are headed
41. Lower rates

42. Actionable, real-time usage information
43. Ease in installing and using innovative technologies
44. Ease in installing your own technology
45. Resilience including ability to integrate innovation and new technologies much more readily
46. dynamic pricing
47. Ease in installing your own technology (DG, batteries)
48. Actionable real time usage information
49. Low rates
50. Increase building energy self-sufficiencies - LEED best practice
51. Prioritize community owned and shared renewable development.
52. Low rates
53. Connected grid - neighbor islands
54. Increased renewable energy
55. Not a business for itself and profit
56. Collaboration with IPPs to modernize grid devices and generation assets
57. room for all technologies
58. incentives to divest from fossil fuels
59. leadership in trying and installing energy technologies
60. Lower rates
61. attractive smart grid and demand response options
62. responsible behavior and updating of equipment
63. Actionable, real-time usage information

Comment:

#	Response
1.	Off shore windmills, geothermal on Maui? Loans to install PV on any home payable through the utility -- not credit driven. Accessible to all immediately.
2.	LNG is not the answer




13) Should there be a dedicated funding resource for sustainable transportation initiative (e.g. pedestrian/bike infrastructure, alternative modes of transportation, etc.)?

Response	Chart	Percentage	Count
Yes		79.2%	61
No		10.4%	8
I don't know		10.4%	8
Total Responses			77

Comment:

#	Response
1.	There should be a research for the effectiveness based on local needs
2.	"Complete streets" is still a dream in Hawaii. We still don't understand how communities are revitalized by making them more inviting, i.e., walkable and bikable.
3.	This is critical; we need more support for multi-modal transportation
4.	Maui has plans for a monorail/elevated rail system and needs to get going on development of it NOW!! This will help South Maui, West Maui, Upcounty. Very much needed. Bus system is inadequate and slow.
5.	The Maui Bus has been TOO well utilized, after initial naysaying
6.	Don't know enough to make an informed opinion
7.	need to accomplish transportation infrastructure initiatives using PPPs with off island advisors who know how to structure PPPs
8.	Focus on google cars, renewable energy fuels
9.	We desperately need safe bike/multi-use paths throughout the island!
10.	The cost is too high compared to the benefit that only a few will reap. Increase funding for the bus and forget the rail project.
11.	pedestrian/bike infrastructure like in Europe
12.	If we really want more bike usage, need to commit fully as investment
13.	This may be achievable through public-private partnerships
14.	Honolulu has the ability to lead the US in this area!! We have been trumped by other cities that are less climate-friendly and geographically accessible than we are!! We are behind!! And we have an aging population.

14) Do you think there should be Statewide targets for transportation (i.e., mode share, Vehicle Miles Traveled, etc.)?

Response	Chart	Percentage	Count
Yes		78.2%	61
No		9.0%	7
I don't know		12.8%	10
Total Responses			78

Comment:

#	Response
1.	Absolutely! And we need to recognize organizations and businesses that are already making the transformation.
2.	Targets can help drive policy.
3.	The outer islands need to be included in implementing proposed solutions. Not only Oahu centric solutions. Solutions for all.
4.	Would like to see targets around rail/bus/bikeshare usage
5.	really do we even have this conversation going on anywhere in our local government. Considering Hoopili was just voted in unanimously, I am doubtful...
6.	Needs lots of discussion. Electric and hybrid cars are catching on but the purchase prices need to come down. The price of gas, low or high, should not be the issue. Where our oil-based fuels come from and environmental concerns should be top of mind.
7.	I want car registration costs based on miles traveled per year
8.	Changing behavior is too difficult. Accept that people with busy lives need the flexibility to get from job to children or elderly parents or Dr appt. need to change how we work and rely more on technology. Satellite offices where people work. Less commuting.
9.	What is the point or benefit of that?
10.	The inequity is felt and impacts socio-economics very negatively on Hawaii Island where commutes are lengthier such that Hawaii Island residents are hit by high costs on both the stationary and mobile energy fronts.
11.	VMT and mode share are crucial, but I am highly interested in targets associated with quality of facilities, miles of bikeways and sidewalks, walkability indexes.

15) If you were in charge for a day, what would you do?

#	Response
1.	lasdjflaksjd'klsdflkasdf;lksa;sldkfj;alksdjf;alksdjf;laksjdf;lkajsdf;lkajsdf;lakjsfl;laksdf;lksdjf;lakjsdf;lakjsc

2. Think BIG
3. Mandate a technology update for all local and State government agencies. No one should be using Lotus
4. End nepotism at HECO, PUC, & leg
5. Ask to be in charge for more days. There's no silver bullet. It's a careful balance between affordability, reliability.
6. Reduce the backlog and increase the approval for DG for solar installations
7. For every policy being considered, I would ask: what ELSE is going to be affected by this?
8. Discuss how effective existing plans are and make reasonable adjustments. establish peak hour fees. Put followed by renewables.
9. make all consumers implement energy efficiency measures
10. Increase the temperature in all public buildings; purchase and install PV on all public buildings; and maintain the distribution system
11. Use my magic wand to transform HECO.
12. Eliminate all petroleum subsidies!
13. Sorry, not enough time for this one...
14. I would legislate lifestyle/quality of work/life changes that shift how we use energy. For example, promote government jobs (and provide incentives to do the same at private companies) to reduce energy use in a better balance the grid.
15. more education to do bottom up involvement and understanding. Utility needs more encouragement to
16. Thinking Big, by tackling one issue at a time, I would ban plastic bags and styrofoam in all Hawaii businesses incentives for the first few years to help businesses with the higher costs that may be associated with energy products.
17. Get CEO salary
18. Reform the utility's business model
19. Require companies who want to do energy business in Hawaii to contribute to a robust local innovation
20. Start construction today on the proposed monorail system for Maui and other futuristic solutions for all is already in progress on elevated rails. Reintroduce an interisland ferry system like in the Pacific North regular schedules with regular daily service between all the islands.
21. Figure out ways to make everything as transparent as possible - enable change, remove fear, gain buy in
22. Increase rail on Oahu, create airport to Kihei / Wailea and Lahaina / Kaanipali rail or dedicated buses.
23. Dedicate more resources to the PUC and to energy efficiency
24. Overhaul the government, make it a flat organization that can collaborate. Some many things, only one of importing over 90% of our food, lets change this. What would our economy look like if we grew 50% of look like if we used the land that is currently used to grow GMO seed to grow our own food. Energy innc have so many available renewable energy resources, how do we use them efficiently, storage is the gap i address it? I don' t think 24hrs is enough.....
25. Reduce nepotism and stir up old Hawaii institutions

26. Get all aspects of our community involved in a conference(s) to come up with a practical plan for short, medium term goals.
27. Investigate resources needed for a muni; battery storage; host expert forums on the potential merger; call HECO on the DER docket - specifically the community solar tariff; Lots to do in a day!
28. assess state's capacity to plan and manage these infrastructure initiatives and bring in outside help when needed
29. remove office politics from the equation
30. update the grid to allow for acceptance of power during peak hours, and install a storage system to decrease fueled generators
31. Educate residents on what they can do to reduce energy/VMT !
32. (with a magic wand in hand)...create a better public transportation system for the Oahu that is unintrusive, maintains the beauty of our island, upgrade the grid, stop all of the development in Kakaako and return it to how it was before the high rises).
33. It's utopic, but I would make everyone put their own political and business agendas aside, and truly come up with what is the best strategies for our state to meet our clean energy and transportation goals. The various groups stop the fingers at each other, when in fact no one party can do it alone for our state to reach a clean energy future
34. I would enact road usage charge (similar but different than Oregon's), where everyone pays their road tax based on miles they drive, instead of the fuel tax (the fee can be adjusted according to type of vehicle - EV's could be exempt etc. - & the money earned can go to regular HDOT operations/infrastructure/etc. and a portion of it can go to funding I'd create the HDOT Transportation Alternatives Program (TAP) and move a large amount of HDOT unserved areas into TAP program for sustainable transportation.
35. I would try and remind people to be compassionate and listen to others perspectives assuming as little as possible
36. Gather energy partners and important stakeholders and build a plan around the goal of 100% renewable energy
37. Consult and confer with Energy leaders in Europe and Asia who are determined to lower our negative energy footprint
38. Too broad a question. In charge of? Government? A utility?
39. require military and fed agencies to be energy independent
40. Just a day? How about a year? Reorganize PUC. Restructure HECO (w/o NextEra).
41. Make renewable energy a statewide priority and provide meaningful tax incentives to ensure action
42. Cut all subsidies for fossil fuels
43. I would focus on infrastructure and education. Build our towns and our people.
44. Set an example by using all renewable resources that are available here in Hawaii.
45. Increase investment in energy efficiency-it is the cheapest kWh you will ever get. Forget LNG- too costly and unreliable product. Let Next Era come in with the money we need to upgrade our aging infrastructure and add new storage to the grid as fast as it makes sense. And start to add storage, that is the way to gain energy independence. Invest in the most cost effective way to reduce demand from the grid.
46. Get folks to understand the relative impact of PV/new technologies versus changes in transportation mode. We should really focused on cutting consumption of fossil fuels and malama aina, perhaps we get "more bang for our buck" by taking public transit or bicycling than we do by shifting to PV or otherwise. Conveying there is more to clean energy than immediately perceived is important for our community in the long term.

47.	Everything possible to change the mode share away from single occupancy cars. Make transportation decisions consider the pedestrian and bike experience first.
48.	Be extremely mindful of socio-economic impacts and do everything possible to avoid good intentions, but vulnerable in our communities continue to pay the highest costs. We need to develop initiatives that allow innovations, technologies, and infrastructure that help to reduce their costs.
49.	Ban use of all single occupancy vehicles for the day
50.	Come up with a real energy plan, that looks at the whole system and how we transform it to clean, local,
51.	End NEM and establish more competitive pricing
52.	Encourage the mayors of Oahu, Maui and Hawaii island to seriously look at implementing the Kauai energy their island and encourage waste to energy facilities on Kauai, Maui and Hawaii island
53.	Fund a bunch of smart folks to hold a 'thinktank' like discussion with the final product being a Hawaii Energy
54.	direct energy-related organization heads (Governor, City, Energy Office, PUC, Hawaii utilities, etc.) to get discussion focused on creating a plan to work together to meet Hawaii's renewable energy goal
55.	Get into the business of generating renewable energy
56.	Get a focused realistic plan of action
57.	Allow everyone to take a month off.
58.	Have utilities and IPPs meet to discuss mutually beneficial plan to allocate generation responsibilities, increase costs, and public education initiative costs; coordinate public outreach energy education programs around and private entities outside Hawaii for R&D collaboration and periodic meetings
59.	First thing to do is get everyone working together
60.	implement smart grid technology and educate the public that the future of renewable energy includes future looks different than it does now, and we need to act now.
61.	Completely overhaul the structure of the SEO and PUC
62.	Increase the energy expertise and staffing at the PUC so it can make faster, better informed, less political
63.	Fund bikeshare. Require affordable/low income housing percentages to be based on number of square units. Change a bunch of traffic lights to roundabouts.
64.	let people with innovating ideas speak up and definitely order some big solar farms being built
65.	Online instantaneous NEM approvals. Keep the NEM program rates the same, forever. Approve community PV loan approvals to all current rate payers with an excellent HECO payment history - combine loan pay Subsidized PV loans for low income families. Build some innovative multi-use PV farms that will result in people, while lowering electric bills for all.

16) Now an easy one: What time do you prefer for WiRE events?

Response	Chart	Percentage	Count
Breakfast		16.2%	13

Lunch		26.2%	21
Pau Hana		5.0%	4
A mix throughout the year		52.5%	42
Other, please specify...		0.0%	0
Total Responses			80

16) Now an easy one: What time do you prefer for WiRE events? (Other, please specify...)

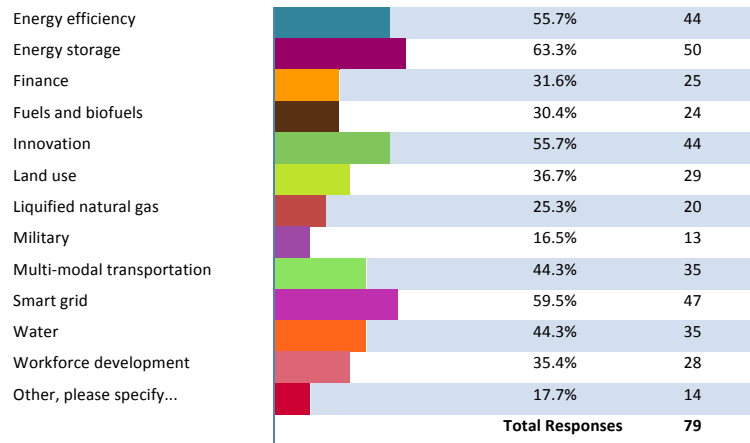
#	Response
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Comment:

#	Response
1.	I have only attended one WiRE event as the cost seems excessive. I would urge that alternative locations be considered, perhaps even bring your own lunches with a fee to cover facilities costs.
2.	Breakfast is too hard for neighbor islanders to attend
3.	I find it difficult to interrupt the work day for luncheon events, so would prefer breakfast or pau hana.
4.	Would like to see the Maui chapter reactivated and conducting regular meetings with meaningful speakers and projects.
5.	The Oahu events look great but anyone from the neighbor islands would incur a huge travel expense to attend. It would be great if teleconferencing were used to get statewide exposure.
6.	I have to travel from a neighbor island, so lunch would be easier than breakfast.
7.	#1 breakfast, #2 lunch, #3 Pau Hana
8.	Breakfast meetings especially are difficult for non-Oahu members.
9.	Really hard to make it for breakfast...

17) What topics would you most like to see covered by WiRE in 2015-2016? Check all that interest you.

Response	Chart	Percentage	Count
Agriculture		38.0%	30
Demand response		54.4%	43
Distributed generation		54.4%	43
Electric vehicles		38.0%	30



17) What topics would you most like to see covered by WiRE in 2015-2016?

Check all that interest you. (Other, please specify...)

#	Response
1.	asdfasdf
2.	Transportation industry renewable efforts
3.	Hydrogen
4.	Please remember that LNG is NOT a renewable fuel and stop including it in the conversation
5.	Work culture/community changes that support families/community.
6.	how companies can help each other out. what is needed vs what has happened.
7.	community microgrids--resilience and energy security
8.	open to anything
9.	current regulatory proceedings, Optimization Strategies for the Ag/Energy/Water Nexus
10.	energy conservation
11.	Job Creation and real statistics of how the energy sector provides opportunity; Economic Impacts including multipliers
12.	LEED building best practice - energy self sufficiency
13.	Policy
14.	community response to visual impact, educating community on renewable energy landscape. The future looks different!!

Comment:

#	Response
1.	Thank you for asking.
2.	Thank you!
3.	Mahalo! Love WIRE!
4.	WiRE always has interesting topics, thank you for all your work!
5.	Thank you!