

Appendix B: Marginal comments and Additional Comments

Advice as to vendor to use for solar would be helpful. There is a company called realgoods.com that apparently has a lot of experience. Price and reliability are important to me.

Although I fervently support this program, my living situation is completely off the grid with no way of receiving a return of power or sending a production of excess power via the coop

Being a working family, just about making ends meet it would be difficult for us to commit to significantly higher energy bills. As our circumstances change we would be interested in purchasing green power if possible.

Buy Brown Island install coal fired plant to meet electrical needs of all islands.

Can't afford to

Care needs to be taken- many renewable energy sources consume more energy to produce than they return when used.

Cost is the issue

Currently I feel unable to directly (W/\$) support the coop due to low income/high cost of living in San Juan County. I thank you for your efforts and will support w/\$ as I am able to in the future.

Do not have the resources, but would if I could

Don't know how much I am able to afford although the concept of renewable energy is very interesting and worthwhile supporting. Need to discuss it with husband.

Educating local residents (like me) about renewable energy options is needed

For now I want to tighten my wood windows, replace one or two appliances and buy warmer sweaters for this winter to save OPALCO electric

Geothermal, wind, small scale hydro are all cost competitive with fossil fuel fired Brayton & Rancine electrical power generation. (subject to locating at appropriate site) No need to subsidize.

Get Smart (unlike OPALCO) & join hands w/SAN JUAN County & Snohomish PUD & construct tidal power gates in San Juan Channel. By using the County, you can issue bonds & fund the San Juan part of the investment.

Good beginning!

Good luck

Good Luck! We'll do what we can to support you.

Had to calculate annual consumption from OPALCO bill graph - OPALCO has check-off for Project PAL (assistance to low income), but no easy way to sign up for green power on their bill. They should do better.

Having local expertise to help us understand if solar or wind would work on our site would be great. We would be likely to invest in either if they made sense. Thanks for doing this.

How about a centrally located Bio-diesel plant. With the Co-op mentality we could buy wholesale materials and produce fuel in large scale facility.

How about spending more time on making Lopez Island an affordable place to live -- maybe instead of renewable energy -- bridges to other islands

I already have a very efficient system (in-floor radiant) and only spend \$30 to 35 a month for electricity. Not

cost effective to do much more. (other than installing wood stove)

I am 70 & my husband is 78 & I think we just don't have the energy to pursue this since other issues take precedence (like basic health) at this age.

I am considering geothermal heat

I am living on a small income and therefore need to purchase the least expensive power available

I applaud your efforts. Well written

I don't really think that doing something on-site would offset the small amount of electricity that I use(\$ wise) but I would be interested in learning more about solar panels.

I have recently purchased a house and I do not have any money to add Green Power Generation. I am very interested in this idea

I want to install green power in my household but am on a limited income and need more information and pay-off

I wish I could afford to be more supportive! I think you are on the right track

I would be interested in photoelectric cells when they become more efficient. I have a solar panel for hot water.

I would imagine that siting (and permitting) for on-island renewable energy may be a big hurdle

I would love to see more assistance in the production of passive solar systems onto older houses that are already on the grid.

I would need to research design options - wind/tidal

If renewable energy resources for power could be set up at a reasonable cost, I believe more people would be willing to do it. That is holding us back right now.

If you people don't consider BPA hydro "renewable" you're out of your f---ing minds. P.s. I wish not to receive anymore mailings from your organization. Thomas W. Knox 4426 Fish Bay Rd., Lopez

I'm working on restoration of historic, 1893, Turn Pt light on Stuart Is. I would like to talk to you regarding ways to make site more green.

in low income rental housing, can't afford much, supports green, reports Eastsound is a wind tunnel excellent for Wind power, additional extensive comments about poor vs rich, incentives, equity, etc.

In midst of solar learning curve. Prefer passive solar design and energy efficient home. Then considering how best to add solar thermal & SV, with what kind of back-ups such as water heating woodstove, etc. Thanks for doing this!

Interested in concept, need more realistic information

It's a disincentive - makes a negative attitude because of cost!

Just publish for all to see

Just use water, there's a lot of it in Washington State!!

Keep plugging along.

Maybe later. Depends on what you show you can plan and accomplish

Missing is "economic and environmental benefit" all you present is SPEND Just another elitist group feathering their nests and pockets

Moving off island, changes will be up to new owner

My answers depend on my spendable cash at time

Nicely done!

No refrigerator

Nuclear or Hydrogen power makes sense. Most of your alternative are either impractical or just silly.

Please do nothing to increase rates involuntarily for our working families

Preserving the San Juan Islands is a MUCH more important than generating green power (or any power) locally. We do

not need generation here. The grid works fine. Put efficient green generation where it belongs (windy plains, for example)

Questions are more detailed than my knowledge. I think RE is important. ?S 5-9 educate me. Suggest a community forum on renewable energy.

Renewable resources, especially local ones, are very important to us. But we currently have very limited funds to contribute

Seasonal micro-hydro sites on Orcas are not economic. BPA power is approx. 100% and renewable. Best source for Orcas is BPA main grid. Best source for Growth of BPA is nuclear

So a person making 10 bucks an hour could be looking at 4 hours a week for Green Power? Sorry, I forgot where I was

Thank you for doing this. I don't make a lot of money - but will show my support as I can.

Thank you for your efforts

Thank You!

Thank you.

Thanks for doing this questionnaire!

The desire to invest is greater than my ability, it's hard to gauge how much I will be able to invest in a system

The funhouse is committed to building a solar.... I look forward to working with the coop to build funhouse system.

The initial cost of installing a solar photovoltaic system in our new house was prohibitive

The real pollution problems in the San Juans are from wood burning and yard burning. Eliminating these sources would reduce "greenhouse gasses" for more than any other solution.

There are many of us who are living check by check and barely getting by for us, any extra expense is not an option!

This household has 2 photovoltaic systems (one is 25k) and a micro-hydro system. We will not be investing in more equipment in the near future. We believe deeply in need to produce renewable power

This is an important and worthy cause. Thanks for your efforts

This would depend on how many signed up

This year I just spent \$34,000 to install preheated solar water and photovoltaic. I don't want to spend more in the coming 20 years. I support your efforts and would contribute service if needed or desired.

Tidal energy must have protective screen to keep fish and Orcas and other marine mammals from path disruption and from harm from....

To us it makes the most sense to build power facilities here in San Juans, transmission lines are expensive, waste power and make us dependent on someone else. We support local utilities and feel the cost could remain down if they were installed locally. We also feel however that all residents should produce some sort of their own power and cut back on percentages of usage.

Use solar power to distill ethanol from Jerusalem artichokes grown on land bank property. Coop provides alternative roofing system of solar panels. Explore potential to fabricate solar panels in county and lower costs especially for solar design roof system.

We are considering a windmill and selling power back.

We are currently looking into solar hot water and electricity- we are waiting for our \$ to improve. We appreciate your efforts in this regard.

We are not suited for wind solar or hydro we also have no knowledge or experiences with AE.

We are renters, in our 60's. We plan on getting out of here as soon as we can. We just can't afford to live here anymore we've been here 11.5 years.

We believe in what you're doing. A big jump in taxes is making me feel negative about expenditures at the moment.

We can barely afford to keep our home here on Orcas with the rising cost of everything, but know that green power is so necessary. We can't afford it now...

We feel very supportive of green power production but are currently struggling to make ends meet.

We got tidal (current twice a day) way to go Kyle.

We have interest in solar energy, placing panels on site to provide renewable energy for our family

We have owned this house for 10 years, but we just began living in it (Aug 2006) We are planning major remodeling starting Spring 2007 that will certainly include as much "green design" as possible. However, not only have we not lived on Orcas long, we have not lived in the US for most of the last 20 years. Thus, it is still difficult for us to estimate local costs

We need sources of energy right now. It is still expensive. I'm storing water now. I've thought about heating water on the roof. Someday solar panels and a windmill.

We need to bring the cost of photovoltaics down!

We plan to build in a year -- are having difficult time finding affordable green building and green building components

We plan to get grid power soon, but hope to invest in grid interface equipment at some point

We seem to be fairly "green" already with 83% hydroelectric

We should have turbines underwater in every narrow pass in this archipelago (well, maybe not EVERY)

What is it going to cost the tax payer to build renewable energy projects?

When green power costs the same or less I will be interested!

Why do we consider covering the island with solar cells or wind generators, but we won't consider the safety of adding cell towers?

Why does this need to go through OPALCO? Make a change with Century Tel also!

Q1 It would be very important to me if there was no premium.

Q2 by tidal, wind - "too much intrusion on environmental appearance. Both are ugly and intrusive"

Q2 Depends on efficiency and cost

Q2 Higher cost is less desirable

Q2 What does "desirable" mean?

Q2 Not all equally practical, but we need to explore and develop all.

Q2 Tidal, wind Not in an ecologically pristine area or marine reserve!

Q2 Wind "effective in our area"

Q2E I have environmental impact concerns.

Q2f Death of birds

Q3 n/a - off the grid

Q3 Did subscribe for several years but needed to curb expenditure in several ways as retiree

Q3 Did we miss this offer?

Q3 I'm not sure, I'd need to call

Q3 N/A (not land owner)

Q3 not connected to OPALCO

Q3 (no plans) "until it become more affordable"

Q3 (No Plans) "unless premium comes down"

Q3 100% green power participant. We pay c. \$400 - 500/month for our business's power. I don't know the kwh's. Businesses, such as food service, have unique opportunities to increase conservation, such as reclaiming heat from refrigeration or equipment. We plan to design our future expansion with creative, industry-specific measures.

Q3 First I have heard about it. Why keep it a secret? (Note also this is a responder with a large solar grid system and he/she never knew about OPALCO green power program)

Q3 I wish, but \$40 more per month could be the last straw, that makes it too expensive to live here

Q3 Off grid household already

Q3 right now the expense is too much for me

Q3A I subscribed until the prices jumped a few years back

Q4 geothermal on site

Q4 (Compact fluorescent) Not good with my vision

Q4 Green Power: ethical? To pay a premium price appears to reward fossil fuel users; given a "fair" choice would choose green any day and every day. Start with eliminating subsidies to fossil fuels and tax breaks for fossil fuels

Q4 Later after rebuilding

Q4 (Appliances) as current appliances need replacement will convert

Q4 Solar/hotwater/pre heat - "possibly" plan to implement within 2yrs

Q4 We use the appliances that were in the 12 yr old house when we purchased it

Q5 Cost dependent

Q5 Energy issues AND CONSERVATION

Q5 I visited a new Silicon Valley start-up company that does not use silicon for solar voltaic but thin film spatter technology at 1/7 the cost of silicon panels -- are you interested?

Q5 Wind?

Q5d You have to be joking

Q5E Only if public will purchase

Q6 If grid tied

Q6 Not on grid

Q6-9 Do not have electricity

Q6C think globally, act locally

Q7 Depends on what I get for it

Q7 Not informed enough to say

Q7 Want to support it but finances are tight - not sure we can afford any extra

Q7 Whatever the actual increase must include

Q7 Can't answer without comparative analysis supplied

Q7 Don't know

Q8 Has note \$40 per KWH

Q8 More as my income increases

Q8 I'd like to see some examples -- what about Rosario's DC generator being converted to AC?

Q8 Unless there is a tax credit in effect

Q8 Don't know

Q9 Could PURPA legislation from late 80's apply? Help? Would service base charge for using submerged cable be reduced? Provide incentives for local generation; use and retention of local dollars and jobs.

Q9 I would be interested in investing in such things as tidal, biomass gasification, solar voltaic panel construction, What about a penstock from Mountain Lake? New technology may reduce (payback time) to 1/2) As I mentioned above, new sputter technology has reduced the cost of solar voltaic by 1/7. First production scheduled for delivery in Feb 07. I think this has excellent potential for the county. What about biomass gasification? Being used in some states.

Q9 "maybe, depending on project"

Q9 comment "(I am 88 yrs old - so ??? 20 years)"

Q9 comment "interesting yes ? Financially able, no"

Q9 Not sure need more information

Q9 Note "Not likely to live that long!"(regarding possible 20 yr payback).

Q9 responder checked No and wrote comment "Public Agency- can't"

Q9: not sure what 'incremental generating capacity" means. Want to know more".

Q10 Can't afford"

Q10 depending on prospectus and incentives

Q10 Work hours as investment would be interesting

Q10 comment on Less than \$500- "initially"

Q10 Don't Know Building home in 2007 -- Planning for solar and wind possibilities but need the foundation, walls and a roof first.

Q10 responder marked 500-999 and 5000-9999 with comment "depends on payback schedule" I recorded 2 on the spreadsheet

Q11 Boat

Q11 comment "renter"

Q11 responder reported being a home/household, I recorded 12 on both Business and Home on

Q11, all double answered

Q12 "seniors"

Q15 "solar pump"

Q16 \$70 per month

Q16 comment "renter"

Q16 comment on residence consumption "approx"

Q16 the responder is a public agency not a business or home household

Q17 Get rid of coal power - Nuclear Power is clean coal is radiation - wind power at Cattle Point I'm using Edenpure Qeearts Infrared portable heater to help cut electric power down

Q17 Green Power still has to be cost effective. Mere "greenness" is not enough. Photovoltaic power is, so far, not very cost effective, for instance, I suggest that nuclear-generated power would be a cost effective way of reducing our dependence upon fossil fuels and fish killing dams. All power generation affects the environment, even "green" power sources.

Q17 I feel as though we need to become more aware of the subjects in order to make informed choices

Q17 Research solar power

Q17 Waste of time and money build nuclear

Q17 Wind seems to weak here as our wind direction and speed are variable, and big wind farm raises lots of view complaints. Solar put on grid seems more suitable. Need ways to tie into roof designs. Which angles best for production? Energy audits would be useful.

Q17 \$400-500-700 cost of energy star fridge

Q17 Am building an attached greenhouse

Q17 Cost of connection to OPALCO is excessive for those some distance fro the distribution line. Otherwise the

answers above would differ. The above answers concern only my residence; other electricity is power by bio-diesel.

Q17 Depends on landlords decisions

Q17 Don't know, need more info

Q17 Don't know but very interested.

Q17 Energy is not renewable! Get educated in thermodynamics! Most resources are renewed by the sun! Energy research requires greater competency than demonstrated by this survey!

Q17 Great survey. Thanks. This is the direction the country need to be heading in!"

Q17 Green power not economical waste of OPALCO & community effort; what we need is more nuclear power

Q17 I am very interested in "green power", however my income limits any extra expenditures.

Q17 I believe very strongly in finding renewable energy but as a widow living on a very limited income I cannot promise to invest.

Q17 I need education about the options to local vs mainland generated green power-I have an OPAL home & would like to know about affordable power generation. At present my main effort is in "illegible" energy- how can I be more pro active. (Maybe by supporting your efforts?) Thank you for this work!

Q17 I think my age 68 keeps one from lifting batteries etc - the technology needs to be smaller easier - important to the sitting government. The young (and if I were) I'd be there.

Q17 I think your path of inquiry is an important one and will provide important information & options for islanders thank you for your efforts

Q17 I want to add wind power in the future

Q17 I'm not even sure how much a month I spend on green power, I would attend educational public meetings.

Q17 If green power is to succeed in the long term, it must be cost-equivalent. Illegible factor the true cost of non green energy into the cost of that power, or bring down cost of green to same illegible or give tax credits - illegible credit on property taxes for the county if for illegible the short term, illegible say they will pay more but in a illegible years the enthusiasm novelty will go away + you will be left with expensive unsolvable green power.

Q17 In 2 to 5 years - comment- "new appliances"

Q17 In 2 to 5 years- note "thinking about whether it makes sense" q17comments- I am already a "thoughtful" consumer doing all I can not to waste power (or anything else!)

Q17 Investment in net year lists range \$200-500; comment- solar water preheat -- site is marginal for other purposes.

Q17 It seems photovoltaic panels would be the only possibility, but need to know much more about feasibility and costs.

Q17 Large scale hydro & nuclear are the two most practical "clean" power sources available at realistic scale to meet power demands. Local "illegible" of power using wind/solar doesn't seem economically realistic for the San Juans. It can be done but it is expensive!

Q17 Many thanks for your work on the coop, this survey being an excellent example. Are the minutes of your meetings available?

Q17 No plans. Need to research this.

Q17 Please use clean and affordable hydro power .

Q17 Solar water heater, standby generator

Q17 Thank you

Q17 THANK YOU for your work- this is absolutely the way to go - I appreciate your fine efforts .

Q17 Thanks for sending survey I did know any green options were available - more education!

Q17 Thanks for your efforts

Q17 The idea of alternatives being automatically more expensive makes no sense to me.

Q17 This form is too vague, too black or white. Bottom line for me is I try to be as energy conservational as possible, but I am not an engineer, and not wealthy.

Q17 This sounds exciting I'll be watching for more information about this! Good luck

Q17 We are perfect examples of why education is important. The questions I left blank are don't knows

Q17 We had a "storm surcharge" years ago. We need a surcharge to make us independent of outages etc. Money can not be the determining factor - climate needs to be. Back Page Notes- Please check Windaus Turbines of Ontario re: vertical windmills - 50% more efficient than conventional horizontal designs. Also there is a company that has developed flexible mats for tidal generation!

Q17 Which might be insulation and conservation rather than active systems. s: If the SAN JUAN Leadership Conference goes (Jan - May 07) would it be appropriate to present. Those taking course pledge 100 community service hours -- this might be mutual beneficial. Contact SJLI @ POB 713, 98250 or leadershipsanjuanislands.org. How feasible are breadbox waterheaters esp. For preheating and summer use? Some installed in Miami in 1930's were still operational according to a paper presented @ Passive Solar Conf in Portland, c. 1983. How much does local/state/federal tax structure support use to generate \$\$ ("Free" sources of renewables may not generate sales tax revenues especially when located at home)

Q17 Why?? We are in favor of more nuclear

Q17 Wind generators are killing a lot of birds and bats which are essential to the balance of our ecosystem. How green is that? Apparently it's another inconvenient truth. The magnitude of world populations dictates that whatever we do will have a huge impact. Let's focus on cutting back - and that includes the birth rate. We are way past sustainable

Q17 All 6 options for generating electricity (as listed in question 2) are only theoretical considerations in San Juans. They are scientifically and economically impractical in this county.

Q17 Can't answer without price comparison

Q17 comment - "At a minimum, alt energy should be at no extra cost to easting hydro, better if less expensive

Q17 comment - The best scenario would be if we all generated our own power and stayed off the grid.

Q17 I live on North Beach Rd, Orcas - a wind tunnel - could use wind power from lake?

Q17 In the net year "Probably the same as last years minimum green

Q17 I have a relatively large on grid solar system, 30 panels @ 190 each (\$5,700).

Q17- Sorry that I'm so ignorant of the logistics

Q17 Stay with hydroelectric and nuclear

Q17 Still too costly for a single owner!

Q17 Unknown at this time-new to island