

# Renewable Energy in the San Juans

Please complete only ONE survey per household or business. If you have received the survey by mail, please respond for the entity (individual/household, business or other) to which it was addressed.

	N	Mean
1. How important do you consider it to be, for OPALCO to offer this Green Power option?	320	7.87
2. The energy that OPALCO offers through the Green Power program can come from different sources. How desirable do <i>you</i> consider each of the energy sources listed below?	N	Mean
Geothermal	232	7.22
Small scale hydro	263	7.33
Methane gas (converting landfill gases into power)	271	7.84
Solar power (photovoltaic panels collect the sun's energy)	319	8.78
Tidal	273	7.33
Wind	312	8.43
3. How do you use OPALCO's Green Power Program today? Please choose one	Count	Cumulative
Currently subscribe,	46	46
Plan to subscribe within 6 months	20	66
Plan to subscribe within 1 year	27	93
Need to know more about the program before deciding whether to subscribe	152	245
Do not plan to subscribe	84	329
Current purchase kWh per month (1 block equals 100 kWh)	N	Mean
	37.00	151.65

## Household and Business Renewable Energy and Conservation

	Currently installed	Plan to implement within 6 months
4. Some households and businesses in San Juan County are already actively conserving and using renewable energy. For each of the following, please check the box that best describes your usage.		
Compact fluorescent lighting	230	16
High efficiency refrigerator (ENERGY STAR)	174	14
High efficiency appliances (other)	189	16
Conscious efforts to reduce electricity use	298	6
Purchase Green Power through OPALCO	45	30
Solar energy (photovoltaic cells) on site	36	4
Wind energy on site	3	17
Micro hydro energy on site	3	1
Passive solar design	89	7
Solar hot water/pre-heat	17	12

## Renewable Energy through a Renewable Energy Cooperative

5. A renewable energy cooperative has been formed in San Juan County to increase the focus on energy conservation and production of renewable energy in the islands. What level of importance do you consider each of these functions to have for the renewable energy coop?

	Mean	SD
Educating people on energy issues	9.09	2.05
Getting better prices on energy components for coop members, through greater buying power	8.85	2.30
Providing skilled design support	8.65	2.29

Producing more renewable energy locally	8.54	2.55
Providing skilled installation support	8.46	2.39
Performing research and development on renewable energy	7.87	2.92

6. Below are four possible ways that a Green Power program could be structured with the power distributed through OPALCO. How likely would you be to purchase Green Power under each of the following options?

Green Power is generated on mainland, you pay a premium of 4¢ per kWh	285	5.22
Green Power is generated on mainland, you pay overall premium of 8¢ per kWh with the additional amount going to help stimulate local production	285	3.99
Green Power is generated in San Juan County, you pay current premium of 4¢ per kWh	285	6.71
Green Power is generated in San Juan County, you pay overall premium of 8¢ per kWh with additional amount going directly to the producer or to stimulate local production	285	5.11

Investors only	N	Mean
Mainland: 4c	144	5.97
Mainland: 8c	144	4.85
SJC: 4C	144	8.15
SJC 8c	144	6.47

	N	\$
7. What is the maximum additional surcharge that you would pay for Green Power generated on the mainland? \$ per month	140	19.49

8. What is the maximum additional surcharge that you would pay for Green Power generated locally in the San Juan islands? \$ per month	154	25.22
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9. One option for the Renewable Energy Co-op is to create several power generation facilities and distribute the energy via businesses in the county are not sited or constructed appropriately for installation of solar photovoltaic systems, small hydro the very best locations to maximize their energy production and help reduce greenhouse gases, give island residents local economic benefits for islanders. Co-op members would invest in the production capacity and would receive payment for the Payback on these systems can be quite long, possibly twenty or more years. Would you be interested in investing in increasing of a renewable energy cooperative?

	Count	Cumulative
Yes	175	175
No	137	312
1	1	313
Missing	35	348

	Count	%
10. If "yes", at what level would you be interested in investing as a one-time investment?		
Less than \$500	69	19.83
\$500 to \$999	35	10.06
\$1,000 to \$2,499	30	8.62
\$2,500 to \$4,999	14	4.02
\$5,000 to \$9,999	5	1.44
\$10,000 up	3	0.86
Or An annual investment of	13	3.74
Missing	179	51.44

10 Annual invest	Valid N	Mean
	18	353.89

Finally, a few questions for classification purposes

11. Which of the following are you responding for?	Count	Cumulative
Home/Household	313	313
Business (Skip to Q14)	8	321
Other/both (Skip to Q14)	20	341
Missing	7	348

12. How many people are there in your household? 18 and above 1	Count	Cumulative
0	6	6
1	76	82
2	219	301
3	14	315
4	6	321
5	1	322
6	1	323
Missing	31	348

Under 18	Count	Cumulative
0	135	135
1	41	176
2	32	208
3	4	212
4	1	213
5	2	215
Missing	133	348

13. Which island do you live on?	Count	Cumulative
Lopez Island	81	81
Orcas Island	108	189
San Juan Island	150	339
Other	9	348

14. Are you a year-round or seasonal resident in the San Juans?	Count	Cumulative
Year round ( ____ weeks a year)	333	333
Seasonal ( Mean 26 weeks a year)	14	347
Missing	1	348

15. Is your current electrical supply:	Count	Cumulative
On the grid	300	300
Off the grid	12	312
Both	14	326
No power	1	327

16. About how many kWh do you use in year?	Valid N	Mean
16 Bus kwh	16	20561.56
16 Res kwh	105	8968.43

17. How much money to you plan to invest in renewable energy resources for power generation at your own site?	Valid N	Mean
In the next year \$_____	26	2631
In 2 to 5 years \$_____	62	7445

Please use this space to write any additional comments.

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*Thank you for completing the survey. Please mail it back to us in the envelope provided.*

Min	Max	Std Dev
1	10	2.97

Min	Max	Std Dev	Don't Know
1	10	3.17	93
1	10	2.89	61
1	10	2.79	54
1	10	2.31	17
1	10	3.24	59
1	10	2.56	22

Percent	Cumulative
13.22	13.22
5.75	18.97
7.76	26.72
43.68	70.40
24.14	94.54

Min	Max	Std Dev
0	1088	248.49

Plan to implement within 2 years	No current plans	Missing	Total
8	63	31	348
28	99	33	348
32	79	32	348
3	24	17	348
41	179	53	348
39	229	40	348
	281	47	348
2	302	40	348
23	195	34	348
35	248	36	348

N	Plan to invest	No plans to invest	p
338	9.55	8.63	0.00
335	9.34	8.37	0.00
334	9.33	7.92	0.00

331	9.31	7.75	0.00
334	8.95	7.94	0.00
328	8.31	7.43	0.01

		4c	8c
3.30		5.97	4.55
2.99		SJC	Mainland
3.52		5.91	4.61

3.46

SD  
2.97  
3.00  
2.54  
3.18

a the existing power infrastructure. Many homes and  
o or wind. The Co-op owned systems would be located in  
ontrol of part of their power production, and provide  
eir share of the income from the power generated.  
ental generating capacity in the San Juans, as a member

Percent	Cumulative
50.29	50.29
39.37	89.66
0.29	89.94
10.06	100.00

Minimum	Maximum	Std.Dev.
20	1000	372.48

Percent	Cumulative
89.94	89.94
2.30	92.24
5.75	97.70
2.01	100.00

Percent	Cumulative
1.72	1.72
21.84	23.56
62.93	86.49
4.02	90.52
1.72	92.24
0.29	92.53
0.29	92.82
8.91	100.00

38.79	38.79
11.78	50.57
9.20	59.77
1.15	60.92
0.29	61.21
0.57	61.78
38.22	100.00

Percent	Cumulative
23.28	23.28
31.03	54.31
43.10	97.41
2.59	100.00

Percent	Cumulative
95.69	95.69
4.02	99.71
0.29	100.00

Percent	Cumulative
86.21	86.21
3.45	89.66
4.02	93.68
0.29	93.97

Minimum	Maximum	Std.Dev.
400	180000	43568.08
76	65000	8543.15

Minimum	Maximum	Std.Dev.
100	15000	3785.66
100	55000	10088.63

