Year n					
	actual Build cost	discounted Build cost			discounted cumulative cost
\$0.00	\$1,020.00	\$1,020.00	\$37.50	\$37.50	\$1,057.50
\$1.00	0	\$0.00	\$37.50	\$35.71	\$1,093.21
\$2.00	0	\$0.00	\$37.50	\$34.01	\$1,127.23
\$3.00	0	\$0.00	\$37.50	\$32.39	\$1,159.62
\$4.00	0	\$0.00	\$37.50	\$30.85	\$1,190.47
\$5.00	0	\$0.00	\$37.50	\$29.38	\$1,219.86
\$6.00	0	\$0.00	\$37.50	\$27.98	\$1,247.84
\$7.00	0	\$0.00	\$37.50	\$26.65	\$1,274.49
\$8.00	0	\$0.00	\$37.50	\$25.38	\$1,299.87
\$9.00	0	\$0.00	\$37.50	\$24.17	\$1,324.04
\$10.00	0	\$0.00	\$37.50	\$23.02	\$1,347.07
\$11.00	0	\$0.00	\$37.50	\$21.93	\$1,368.99
\$12.00	0	\$0.00	\$37.50	\$20.88	\$1,389.87
\$13.00	0	\$0.00	\$37.50	\$19.89	\$1,409.76
\$14.00	0	\$0.00	\$37.50	\$18.94	\$1,428.70
\$15.00	235	\$113.04	\$37.50	\$18.04	\$1,559.78
\$16.00	0	\$0.00	\$37.50	\$17.18	\$1,576.96
\$17.00	0	\$0.00	\$37.50	\$16.36	\$1,593.32
\$18.00	0	\$0.00	\$37.50	\$15.58	\$1,608.90
\$19.00	0	\$0.00	\$37.50	\$14.84	\$1,623.74
\$20.00	0	\$0.00	\$37.50	\$14.13	\$1,637.87
\$21.00	0	\$0.00	\$37.50	\$13.46	\$1,651.33
\$22.00	0	\$0.00	\$37.50	\$12.82	\$1,664.15
\$23.00	0	\$0.00	\$37.50	\$12.21	\$1,676.36
\$24.00	Ö	\$0.00	\$37.50	\$11.63	\$1,687.99
\$25.00	Ő	\$0.00	\$37.50	\$11.07	\$1,699.06
\$26.00	Ő	\$0.00	\$37.50	\$10.55	\$1,709.61
\$27.00	0	\$0.00	\$37.50	\$10.04	\$1,719.65
\$28.00	0	\$0.00	\$37.50	\$9.57	\$1,729.22
\$29.00	0	\$0.00	\$37.50	\$9.11	\$1,738.33
\$30.00	480	\$111.06	\$37.50	\$8.68	\$1,858.07
\$31.00	0	\$0.00	\$37.50	\$8.26	\$1,866.33
\$31.00	0	\$0.00	\$37.50	\$7.87	\$1,800.33 \$1,874.20
	0			\$7.57 \$7.50	
\$33.00	0	\$0.00 \$0.00	\$37.50	•	\$1,881.70
\$34.00	•	*****	\$37.50	\$7.14 \$6.80	\$1,888.83
\$35.00	0	\$0.00	\$37.50	\$6.80	\$1,895.63
\$36.00	0	\$0.00	\$37.50	\$6.47	\$1,902.11
\$37.00	0	\$0.00	\$37.50	\$6.17	\$1,908.27
\$38.00	0	\$0.00	\$37.50	\$5.87	\$1,914.15
\$39.00	0	\$0.00	\$37.50	\$5.59	\$1,919.74
\$40.00	0	\$0.00	\$37.50	\$5.33	\$1,925.07
\$41.00	0	\$0.00	\$37.50	\$5.07	\$1,930.14
\$42.00	0	\$0.00	\$37.50	\$4.83	\$1,934.97
\$43.00	0	\$0.00	\$37.50	\$4.60	\$1,939.57
\$44.00	0	\$0.00	\$37.50	\$4.38	\$1,943.95
\$45.00	235	\$26.15	\$37.50	\$4.17	\$1,974.28
\$46.00	0	\$0.00	\$37.50	\$3.97	\$1,978.26
\$47.00	0	\$0.00	\$37.50	\$3.79	\$1,982.04
\$48.00	0	\$0.00	\$37.50	\$3.61	\$1,985.65

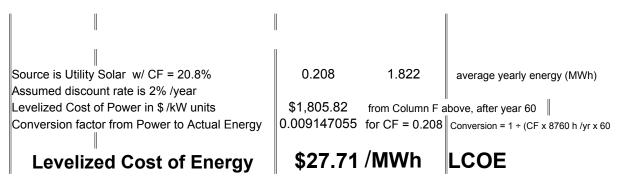
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\$49.00 \$50.00 Decommission = 1% All values are in unit	0 0 \$1,970.00 s of \$ /kW	\$0.00 \$0.00 \$171.79	\$37.50 \$37.50	\$3.43 \$3.27	\$1,989.08 \$1,992.35 \$2,164.14		
Energy source is Onshore wind							
Assumed discount rate Levelized cost	•	\$2,164.14	\$ /kW				
Capacity Factor = 33 Levelized Cost of		= \$2164.14 ÷	166.002	\$13.04	/MWh		

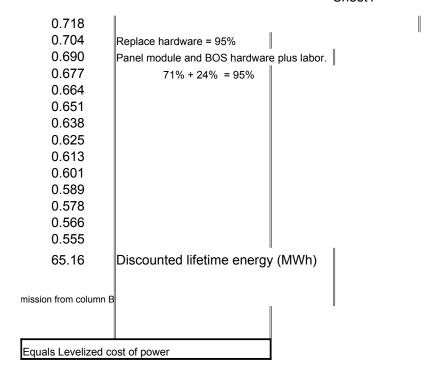
Sheet1

	Actual Build cost	Discounted Build cost	Actual O&M cost	Discounted O&M cost	Cumulative cost	Yearly energy
Year n	\$750 /kW					average
	\$750	\$750.00	\$19.50	\$19.50	\$769.50	1.822
1	0	0	\$19.50	\$19.12	\$788.62	1.822
2	0	0	\$19.50	\$18.74	\$807.36	1.822
3	0	0	\$19.50	\$18.38	\$825.74	1.822
4	0	0	\$19.50	\$18.01	\$843.75	1.822
5	0	0	\$19.50	\$17.66	\$861.41	1.822
6	0	0	\$19.50	\$17.32	\$878.73	1.822
7	0	0	\$19.50	\$16.98	\$895.70	1.822
8	0	0	\$19.50	\$16.64	\$912.35	1.822
9	0	0	\$19.50	\$16.32	\$928.66	1.822
10	0	0	\$19.50	\$16.00	\$944.66	1.822
11	0	0	\$19.50	\$15.68	\$960.34	1.822
12	\$37.50	\$29.57	\$19.50	\$15.38	\$1,005.29	1.822
13	0	0	\$19.50	\$15.07	\$1,020.36	1.822
14	0	0	\$19.50	\$14.78	\$1,035.14	1.822
15	0	0	\$19.50	\$14.49	\$1,049.63	1.822
16	0	0	\$19.50	\$14.20	\$1,063.83	1.822
17	0	0	\$19.50	\$13.93	\$1,077.76	1.822
18	0	0	\$19.50	\$13.65	\$1,091.41	1.822
19	0	0	\$19.50	\$13.39	\$1,104.80	1.822
20	0	\$0	\$19.50	\$13.12	\$1,117.92	1.822
21	0	0	\$19.50	\$12.87	\$1,130.79	1.822
22	0	0	\$19.50	\$12.61	\$1,143.40	1.822
23	0 O	0	\$19.50	\$12.37	\$1,155.77	1.822
24	\$37.50	\$23.31	\$19.50	\$12.12	\$1,191.20	1.822
25	0	0	\$19.50	\$11.89	\$1,203.09	1.822
26	0	0	\$19.50	\$11.65	\$1,214.74	1.822
27	0	0	\$19.50	\$11.42	\$1,226.17	1.822
28	o o	0	\$19.50	\$11.20	\$1,237.37	1.822
29	o o	0	\$19.50	\$10.98	\$1,248.35	1.822
30	o o	0	\$19.50	\$10.77	\$1,259.11	1.822
31	0	0	\$19.50	\$10.55	\$1,269.67	1.822
32	ő	0	\$19.50	\$10.35	\$1,280.02	1.822
33	0	0	\$19.50	\$10.14	\$1,290.16	1.822
34	ő	0	\$19.50	\$9.95	\$1,300.11	1.822
35	0	0	\$19.50	\$9.75	\$1,309.86	
36	\$37.50	\$18.38	\$19.50	\$9.56	\$1,337.80	1.822
37	0	0	\$19.50	\$9.37	\$1,347.17	1.822
38	0	0	\$19.50	\$9.19	\$1,356.36	1.822
39	0	0	\$19.50	\$9.01	\$1,365.37	1.822
40	0	0	\$19.50	\$8.83	\$1,303.37 \$1,374.20	1.822
41	0	0	\$19.50	\$8.66	\$1,382.86	1.822
42	0	0	\$19.50	\$8.49	\$1,391.34	1.822
43	0	0	\$19.50	\$8.32	\$1,399.67	1.822
43	0	0	\$19.50	\$8.16	\$1,407.83	1.822
44 45	0	0	\$19.50 \$19.50	\$8.00	\$1,407.83 \$1,415.82	1.822
45 46	\$0.00	\$0.00				1.822
∥ 4 0	φυ.υυ	φυ.υυ	\$19.50	\$7.84	\$1,423.67	1.822

47	0	0	\$19.50	\$7.69	\$1,431.35	1.822
48	\$712.50	\$275.41	\$19.50	\$7.54	\$1,714.30	1.822
49	0	0	\$19.50	\$7.39	\$1,721.69	1.822
50	0	\$0	\$19.50	\$7.24	\$1,728.93	1.822
51	0	0	\$19.50	\$7.10	\$1,736.04	1.822
52	0	0	\$19.50	\$6.96	\$1,743.00	1.822
53	0	0	\$19.50	\$6.83	\$1,749.83	1.822
54	0	\$0	\$19.50	\$6.69	\$1,756.52	1.822
55	0	0	\$19.50	\$6.56	\$1,763.08	1.822
56	0	0	\$19.50	\$6.43	\$1,769.52	1.822
57	0	0	\$19.50	\$6.31	\$1,775.82	1.822
58	0	0	\$19.50	\$6.18	\$1,782.01	1.822
59	0	0	\$19.50	\$6.06	\$1,788.07	1.822
60	0	0	\$19.50	\$5.94	\$1,794.01	1.822
Total BLDG cost	\$1,575.00	Replacements perfo	ormed	Actual lifetime	e energy (MWh)	111.15
Decom = 0.75%	\$11.81					
		Levelized	Cost of Power	(\$ /kW)	\$1,805.82	Include decom
		All the a	bove values a	re in units of	\$ /kW	
					-	
	Levelize	ed Cost of Ene	rgy – LCOE	(\$/MWh)	\$27.71	



Discounted yearly energy	Remarks	
in MWh	Utility PV Solar @2	2%
1.822	Construction	
1.786	completed	
1.751	In 1 year	
1.717		
1.683	Total CAPEX = \$750 /kW	
1.650		
1.618	Columns A through F	
1.586	are nominal dollars	
1.555	per kilowatt	
1.525	of peak generating	
1.495	capacity	
1.465		
1.437	Replace DC inverter 5%	
1.409		
1.381		
1.354		
1.327		
1.301		
1.276		
1.251		
1.226		
1.202 1.179		
1.179		
1.133	Danless DC inverter 5%	
1.111	Replace DC inverter 5%	
1.089		
1.067		
1.047		
1.026		
1.006		
0.986		
0.967		
0.948		"
0.929		
0.911		
0.893	Replace DC inverter 5%	
0.876		
0.859		
0.842		
0.825		
0.809		
0.793		
0.778		
0.762		
0.747		
0.733		



divided by		
discounted lifetime	energy	
yrs /1000 kW per MW)	ı	