Year n actual build cost discounted 0.84 next discustate cast   50.00 \$1,020.00 \$37.50 \$37.50 \$1.093.21   \$2.00 0 \$0.00 \$37.50 \$35.71 \$1,093.21   \$2.00 0 \$0.00 \$37.50 \$32.39 \$1,159.62   \$4.00 0 \$0.00 \$37.50 \$22.38 \$1,219.86   \$5.00 0 \$0.00 \$37.50 \$29.38 \$1,219.86   \$6.00 0 \$0.00 \$37.50 \$22.38 \$1,247.84   \$7.00 0 \$0.00 \$37.50 \$22.38 \$1,247.44   \$8.00 0 \$0.00 \$37.50 \$22.32 \$1,347.97   \$11.00 0 \$0.00 \$37.50 \$22.32 \$1,347.97   \$12.00 0 \$0.00 \$37.50 \$22.88 \$1,389.87   \$13.00 0 \$0.00 \$37.50 \$18.44 \$1,629.78   \$14.00 0 \$0.00 \$37.50 \$18.44 \$1,629.78	Year n	actual Build cost	discounted Build cost	actual ORM aget	diagounted OPM cost	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						
\$2.000 $$0.00$ $$37.50$ $$34.01$ $$1,127.23$ $$3.00$ 0 $$0.00$ $$37.50$ $$32.39$ $$1,150.62$ $$4.00$ 0 $$0.00$ $$37.50$ $$22.38$ $$1,219.86$ $$6.00$ 0 $$0.00$ $$37.50$ $$22.9.38$ $$1,219.86$ $$6.00$ 0 $$0.00$ $$37.50$ $$22.9.38$ $$1,274.49$ $$6.00$ 0 $$0.00$ $$37.50$ $$22.58$ $$1,274.49$ $$6.00$ 0 $$0.00$ $$37.50$ $$22.17$ $$1,324.04$ $$10.00$ 0 $$0.00$ $$37.50$ $$22.17$ $$1,324.04$ $$10.00$ 0 $$0.00$ $$37.50$ $$22.08$ $$1,389.97$ $$11.00$ 0 $$0.00$ $$37.50$ $$21.93$ $$1,388.97$ $$13.00$ 0 $$0.00$ $$37.50$ $$18.94$ $$1,428.70$ $$16.00$ 0 $$0.00$ $$37.50$ $$18.94$ $$1,428.70$ $$16.00$ 0 $$0.00$ $$37.50$ $$16.36$ $$1,59.32$ $$16.00$ 0 $$0.00$ $$37.50$ $$16.36$ $$1,59.32$ $$18.00$ 0 $$0.00$ $$37.50$ $$16.36$ $$1,59.32$ $$19.00$ 0 $$0.00$ $$37.50$ $$14.84$ $$1,623.74$ $$22.00$ 0 $$0.00$ $$37.50$ $$14.84$ $$1,623.74$ $$22.00$ 0 $$0.00$ $$37.50$ $$14.84$ $$1,623.74$ $$22.00$ 0 $$0.00$ $$37.50$ $$14.84$ $$1,623.74$ $$22.00$ 0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
$\begin{array}{cccccccccccccccccccccccccccccccccccc$						
\$4.00 0 \$0.00 \$37.50 \$30.85 \$1,190.47   \$5.00 0 \$0.00 \$37.50 \$27.98 \$1,247.84   \$7.00 0 \$0.00 \$37.50 \$25.38 \$1,299.87   \$8.00 0 \$0.00 \$37.50 \$25.38 \$1,299.87   \$8.00 0 \$0.00 \$37.50 \$22.32 \$1,347.07   \$11.00 0 \$0.00 \$37.50 \$21.93 \$1,368.99   \$12.00 0 \$0.00 \$37.50 \$18.94 \$1,428.70   \$14.00 0 \$0.00 \$37.50 \$18.94 \$1,559.78   \$16.00 0 \$0.00 \$37.50 \$18.04 \$1,559.78   \$17.00 0 \$0.00 \$37.50 \$16.36 \$1,593.32   \$18.00 0 \$0.00 \$37.50 \$16.36 \$1,593.32   \$18.00 0 \$0.00 \$37.50 \$14.44 \$1,623.74   \$20.00 0 \$0.00 \$37.50 \$14.64						
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\$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 \$16.36 \$1,593.32   \$18.00 0 \$0.00 \$37.50 \$14.84 \$1,623.74   \$20.00 0 \$0.00 \$37.50 \$14.84 \$1,623.74   \$21.00 0 \$0.00 \$37.50 \$14.84 \$1,623.74   \$22.00 0 \$0.00 \$37.50 \$14.84 \$1,623.74   \$22.00 0 \$0.00 \$37.50 \$14.83 \$1,664.15   \$23.00 0 \$0.00 \$37.50 \$11.63 \$1,687.99   \$25.00 0 \$0.00 \$37.50 \$10.04 \$1,719.65   \$27.00 0 \$0.00 \$37.50 \$10.44 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
\$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 \$17.18 \$1,576.96   \$17.00 0 \$0.00 \$37.50 \$17.18 \$1,576.96   \$17.00 0 \$0.00 \$37.50 \$17.88 \$1,608.90   \$18.00 0 \$0.00 \$37.50 \$14.84 \$1,623.74   \$20.00 0 \$0.00 \$37.50 \$14.84 \$1,6671.33   \$22.00 0 \$0.00 \$37.50 \$14.64 \$1,6671.33   \$22.00 0 \$0.00 \$37.50 \$11.63 \$1,667.36   \$24.00 0 \$0.00 \$37.50 \$11.63 \$1,687.99   \$25.00 0 \$0.00 \$37.50 \$11.07 \$1,699.06   \$24.00 0 \$0.00 \$37.50 \$11.07 \$1,699.06   \$27.00 0 \$0.00 \$37.50 \$1.79.9						
\$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 \$16.36 \$1,593.32   \$17.00 0 \$0.00 \$37.50 \$16.36 \$1,593.32   \$18.00 0 \$0.00 \$37.50 \$16.36 \$1,637.87   \$21.00 0 \$0.00 \$37.50 \$13.46 \$1,637.87   \$22.00 0 \$0.00 \$37.50 \$12.82 \$1,664.15   \$23.00 0 \$0.00 \$37.50 \$11.63 \$1,687.99   \$25.00 0 \$0.00 \$37.50 \$11.07 \$1,699.06   \$24.00 0 \$0.00 \$37.50 \$10.55 \$1,709.61   \$27.00 0 \$0.00 \$37.50 \$10.4 \$1,719.65   \$28.00 0 \$0.00 \$37.50 \$8.68 \$1,88.33   \$33.00 0 \$0.00 \$37.50 \$8.68						
\$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 \$1,627.74   \$20.00 0 \$0.00 \$37.50 \$14.84 \$1,651.33   \$22.00 0 \$0.00 \$37.50 \$12.82 \$1,664.15   \$23.00 0 \$0.00 \$37.50 \$11.63 \$1,687.99   \$25.00 0 \$0.00 \$37.50 \$11.07 \$1,699.06   \$27.00 0 \$0.00 \$37.50 \$10.04 \$1,719.65   \$28.00 0 \$0.00 \$37.50 \$8.68 \$1,858.07   \$31.00 0 \$0.00 \$37.50 \$8.68 \$1,858.07   \$33.00 0 \$0.00 \$37.50 \$8.68						
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\$38.000\$0.00\$37.50\$5.87\$1,914.15\$39.000\$0.00\$37.50\$5.59\$1,919.74\$40.000\$0.00\$37.50\$5.33\$1,925.07\$41.000\$0.00\$37.50\$5.07\$1,930.14\$42.000\$0.00\$37.50\$4.83\$1,934.97\$43.000\$0.00\$37.50\$4.60\$1,939.57\$44.000\$0.00\$37.50\$4.38\$1,943.95\$45.00235\$26.15\$37.50\$4.17\$1,974.28\$46.000\$0.00\$37.50\$3.97\$1,978.26\$47.000\$0.00\$37.50\$3.79\$1,982.04	\$36.00	0	\$0.00	\$37.50	\$6.47	\$1,902.11
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\$40.000\$0.00\$37.50\$5.33\$1,925.07\$41.000\$0.00\$37.50\$5.07\$1,930.14\$42.000\$0.00\$37.50\$4.83\$1,934.97\$43.000\$0.00\$37.50\$4.60\$1,939.57\$44.000\$0.00\$37.50\$4.38\$1,943.95\$45.00235\$26.15\$37.50\$4.17\$1,974.28\$46.000\$0.00\$37.50\$3.97\$1,978.26\$47.000\$0.00\$37.50\$3.79\$1,982.04	\$38.00	0	\$0.00	\$37.50	\$5.87	\$1,914.15
\$41.000\$0.00\$37.50\$5.07\$1,930.14\$42.000\$0.00\$37.50\$4.83\$1,934.97\$43.000\$0.00\$37.50\$4.60\$1,939.57\$44.000\$0.00\$37.50\$4.38\$1,943.95\$45.00235\$26.15\$37.50\$4.17\$1,974.28\$46.000\$0.00\$37.50\$3.97\$1,978.26\$47.000\$0.00\$37.50\$3.79\$1,982.04	\$39.00	0	\$0.00	\$37.50	\$5.59	\$1,919.74
\$42.000\$0.00\$37.50\$4.83\$1,934.97\$43.000\$0.00\$37.50\$4.60\$1,939.57\$44.000\$0.00\$37.50\$4.38\$1,943.95\$45.00235\$26.15\$37.50\$4.17\$1,974.28\$46.000\$0.00\$37.50\$3.97\$1,978.26\$47.000\$0.00\$37.50\$3.79\$1,982.04	\$40.00	0	\$0.00	\$37.50	\$5.33	\$1,925.07
\$43.000\$0.00\$37.50\$4.60\$1,939.57\$44.000\$0.00\$37.50\$4.38\$1,943.95\$45.00235\$26.15\$37.50\$4.17\$1,974.28\$46.000\$0.00\$37.50\$3.97\$1,978.26\$47.000\$0.00\$37.50\$3.79\$1,982.04	\$41.00	0	\$0.00	\$37.50	\$5.07	\$1,930.14
\$44.000\$0.00\$37.50\$4.38\$1,943.95\$45.00235\$26.15\$37.50\$4.17\$1,974.28\$46.000\$0.00\$37.50\$3.97\$1,978.26\$47.000\$0.00\$37.50\$3.79\$1,982.04	\$42.00	0	\$0.00	\$37.50	\$4.83	\$1,934.97
\$45.00235\$26.15\$37.50\$4.17\$1,974.28\$46.000\$0.00\$37.50\$3.97\$1,978.26\$47.000\$0.00\$37.50\$3.79\$1,982.04	\$43.00	0	\$0.00	\$37.50	\$4.60	\$1,939.57
\$46.000\$0.00\$37.50\$3.97\$1,978.26\$47.000\$0.00\$37.50\$3.79\$1,982.04	\$44.00	0	\$0.00	\$37.50	\$4.38	\$1,943.95
\$47.00 0 \$0.00 \$37.50 \$3.79 \$1,982.04	\$45.00	235	\$26.15	\$37.50	\$4.17	\$1,974.28
			\$0.00	\$37.50		
\$48.000\$0.00\$37.50\$3.61\$1,985.65			\$0.00	\$37.50		
	\$48.00	0	\$0.00	\$37.50	\$3.61	\$1,985.65

			Sheet2		
\$49.00	0	\$0.00	\$37.50	\$3.43	\$1,989.08
\$50.00	0	\$0.00	\$37.50	\$3.27	\$1,992.35
Decommission = 1%	\$1,970.00	\$171.79			\$2,164.14
All values are in unit	ts of \$ /kW				
Energy source is Onsh	ore wind				
Assumed discount rate Levelized cost	,	\$2,164.14	\$ /kW		
Capacity Factor = 3 Levelized Cost of		= \$2164.14 ÷	166.002	\$13.04	4 /MWh

	Actual Build cost	Discounted Build cost	Actual O&M cost	Discounted O&M cost	Cumulative cost	Yearly energy
			Caw Cost		0031	
Year <b>n</b>	\$1930 /kW	<b>*</b> 4 <b>* *</b> 4 <b>* *</b>	<b>*••••</b>	<b>*••••</b>	<b>*</b> 4 <b>• = = • •</b>	average
	\$1,930	\$1,930.00	\$27.50	\$27.50	\$1,957.50	1.726
1	0	0	\$27.50	\$26.96	\$1,984.46	1.726
2	0	0	\$27.50	\$26.43	\$2,010.89	1.726
3	0	0	\$27.50	\$25.91	\$2,036.81	1.726
4	0	0	\$27.50	\$25.41	\$2,062.21	1.726
5	0	0	\$27.50	\$24.91	\$2,087.12	1.726
6	0	0	\$27.50	\$24.42	\$2,111.54	1.726
7	0	0	\$27.50	\$23.94	\$2,135.48	1.726
8	0	0	\$27.50	\$23.47	\$2,158.95	1.726
9	0	0	\$27.50	\$23.01	\$2,181.96	1.726
10	0	0	\$27.50	\$22.56	\$2,204.52	1.726
11	0	0	\$27.50	\$22.12	\$2,226.64	1.726
12	\$154.40	\$121.74	\$27.50	\$21.68	\$2,370.07	1.726
13	0	0	\$27.50	\$21.26	\$2,391.32	1.726
14	0	0	\$27.50	\$20.84	\$2,412.17	1.726
15	0	0	\$27.50	\$20.43	\$2,432.60	1.726
16	0	0	\$27.50	\$20.03	\$2,452.63	1.726
17	0	0	\$27.50	\$19.64	\$2,472.27	1.726
18	0	0	\$27.50	\$19.25	\$2,491.52	1.726
19	0	0	\$27.50	\$18.88	\$2,510.40	1.726
20	0	\$0	\$27.50	\$18.51	\$2,528.91	1.726
21	0	0	\$27.50	\$18.14	\$2,547.05	1.726
22	0	0	\$27.50	\$17.79	\$2,564.84	1.726
23	0	0	\$27.50	\$17.44	\$2,582.28	1.726
24	\$154.40	\$95.99	\$27.50	\$17.10	\$2,695.37	1.726
25	0	0	\$27.50	\$16.76	\$2,712.13	1.726
26	0	0	\$27.50	\$16.43	\$2,728.57	1.726
27	0	0	\$27.50	\$16.11	\$2,744.68	1.726
28	0	0	\$27.50	\$15.80	\$2,760.47	1.726
29	0	0	\$27.50	\$15.49	\$2,775.96	1.726
30	0	0	\$27.50	\$15.18	\$2,791.14	1.726
31	0	0	\$27.50	\$14.88	\$2,806.02	
32	0	0	\$27.50 \$27.50	\$14.59	\$2,800.02	1.726
33	0	0	\$27.50 \$27.50	\$14.33	\$2,834.92	1.726
33	0	0	\$27.50 \$27.50	\$14.03	\$2,848.95 \$2,848.95	1.726
35	0	0	\$27.50 \$27.50	\$14.03 \$13.75	\$2,862.70	1.726
36	\$154.40	\$75.69	\$27.50 \$27.50	\$13.75 \$13.48	\$2,951.87	1.726
			-		\$2,951.07 \$2,965.09	1.726
37	0	0	\$27.50 \$27.50	\$13.22 \$12.06		1.726
38	0	0	\$27.50 \$27.50	\$12.96 \$12.70	\$2,978.05	1.726
39	0	0	\$27.50	\$12.70 \$12.45	\$2,990.75	1.726
40	0	0	\$27.50	\$12.45	\$3,003.20	1.726
41	0	0	\$27.50	\$12.21	\$3,015.41	1.726
42	0	0	\$27.50	\$11.97	\$3,027.38	1.726
43	0	0	\$27.50	\$11.74	\$3,039.12	1.726
44	0	0	\$27.50	\$11.51	\$3,050.63	1.726
45	0	0	\$27.50	\$11.28	\$3,061.91	1.726
46	\$1,775.60	\$714.06	\$27.50	\$11.06	\$3,787.03	1.726

Sheet1

			Sheet1	1		
47	0	0	\$27.50	\$10.84	\$3,797.87	1.726
48	0	0	\$27.50	\$10.63	\$3,808.50	1.726
49	0	0	\$27.50	\$10.42	\$3,818.92	1.726
50	0	\$0	\$27.50	\$10.22	\$3,829.14	1.726
51	0	0	\$27.50	\$10.02	\$3,839.16	1.726
52	0	0	\$27.50	\$9.82	\$3,848.98	1.726
53	0	0	\$27.50	\$9.63	\$3,858.61	1.726
54	0	\$0	\$27.50	\$9.44	\$3,868.04	1.726
55	0	0	\$27.50	\$9.25	\$3,877.30	1.726
56	0	0	\$27.50	\$9.07	\$3,886.37	1.726
57	0	0	\$27.50	\$8.89	\$3,895.27	1.726
58	0	0	\$27.50	\$8.72	\$3,903.99	1.726
59	0	0	\$27.50	\$8.55	\$3,912.53	1.726
60	0	0	\$27.50	\$8.38	\$3,920.92	1.726
Total BLDG cost	\$4,168.80	Replacements perfo	rmed	Actual lifetim	e energy (MWh)	105.27
Decom = 0.75%	\$31.27					
		Levelized	Cost of Power	(\$/kW)	\$3,952.18	Include decom
	All the above values are in units of \$ /kW					
	Levelized Cost of Energy – LCOE (\$/MWh) \$64.04					

Source is Residentiall Roof Solar w/ CF = 19.7%	0.197	1.726	average yearly energy (MWh)
Assumed discount rate is 2% /year			
Levelized Cost of Power in \$ /kW units	\$3,952.18		bove, after year 60
Conversion factor from Power to Actual Energy	0.009657805	for CF = 0.197	Conversion = 1 ÷ (CF x 8760 h /yr x 60
		/	
Levelized Cost of Energy	\$64.04	/ <b>MW</b> h	LCOE

Discounted yearly energy	Remarks	
in MWh	<b>Residential Roof S</b>	olar @2%
1.726	Construction	
1.692	completed	
1.659	In 1 year	
1.626	_	
1.594	Total CAPEX = \$1930 /kW	
1.563		
1.532	Columns A through F	
1.502	are nominal dollars	
1.473	per kilowatt	
1.444	of peak generating	
1.416	capacity	
1.388		
1.361	Replace DC inverter 8%	
1.334		
1.308		
1.282		
1.257		
1.232		
1.208		
1.185		
1.165		
1.139		
1.139		
1.094		
1.073	Danlaga DC inverter 20/	
1.052	Replace DC inverter 8%	
1.032		
1.011		
0.991		
0.972		
0.953 0.934		
0.934		II II
0.898		
0.880		
0.863		
0.846	Replace DC inverter 8%	
0.829		
0.813		
0.797		
0.782		
0.766		
0.751		
0.736		
0.722		
0.708		
0.694	Replace hardware = 92%	

0.680	Panel module and BOS hardware	e plus labor.			
0.667	59% + 33% = 92%				
0.654					
0.641					
0.629					
0.616					
0.604					
0.592					
0.581					
0.569					
0.558					
0.547					
0.536					
0.526					
61.71	Discounted lifetime energy	′ (MWh)			
		. ,			
mission from column B					
Equals Levelized cost of power					
	•				

