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Contact: Bob Sisco



### Residential Solar Project Proposal

5692 Richgrove Ln., Dublin, OH 43016 Chris Tomin

This is a proposal for the installation of a solar system. The price is a turn-key price and includes everything that is associated with a successful installation: including Utility Company interconnection process & paperwork, local permit & electrical inspection, design & engineering, hardware purchase, installation, electrical hook-up, and system commissioning.

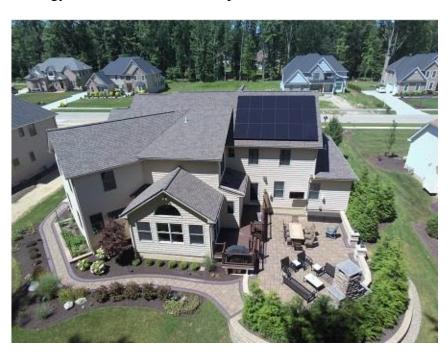
The following incentives and revenue streams have been incorporated into the numbers.

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- Federal Tax Credit
- Electricity Bill Savings

At Ohio Power Solutions, we design, engineer, install, and maintain professional quality solar panel and wind turbine systems as well as energy efficiency products. We also install backup power systems such as generators and battery backup solar systems. We serve the entire state of Ohio. Located in central Ohio, we can easily accommodate customer needs. Our number one goal is customer satisfaction.

We are family owned & operated, and are NABCEP Solar PV Certified. We have installed over 400 plus systems for homeowners, business owners, farms, and non-profits. We have a passion for helping our community move toward a more sustainable energy future and reduce our dependence on fossil fuels.



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The rough layout below shows the approximate location of the proposed solar panels.



The number of solar panels, inverter selection, utility bill offset, and the solar system's estimated production output in kilowatt hours (kWh) is identified below.

#### • Roof Mounted Scenario #1: 4.44 kW System Size

- $\circ$  12 370 Watt panels (4,440)
- 1 Solar Edge Inverter and 12 Optimizers
- o Will initially generate approximately 5,932 kWh per year (Annual Solar Production)
- o Initial Installed Price: \$13,542
  - o Less Federal Tax Credit: \$3,521 (26%)
- o Net-Effective Cost: \$10,021
- o Total Avoided Energy Costs (Savings): \$39,578
- o 96%: Utility Bill Offset / Energy Savings

#### • Roof Mounted Scenario # 2: 7.03 kW System Size

- $\circ$  19 370 Watt panels (7,030)
- 1 Solar Edge Inverter and 19 Optimizers
- o Will initially generate approximately 5,828 kWh per year (Annual Solar Production)
- o Initial Installed Price: \$20,036
  - o Less Federal Tax Credit: \$5,209 (26%)
- o Net-Effective Cost: \$14,826
- Total Avoided Energy Costs (Savings): \$38,884
- o 94%: Utility Bill Offset / Energy Savings

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#### • Financials:

The financial scenarios below leverage the Federal Tax Credit, and Energy Savings. The assumptions in the financial analysis include: Avg. Utility Rate is an average of \$0.125 cents per kWh, the kWh consumption is projected to be 6,203 kWh annually, and the Average Annual Increase in Utility Rates is 4.2% annually.

SOLAR SIZING ANALYSIS		
System Size (kW)	4.44	7.03
Annual Solar Production (First Year)	5,932	5,828
Annual Average Usage (kWh)	6,203	6,203
Utility Bill Offset / Energy Savings	96%	94%
Number of Panels	12	19
Watts per Panel	370	370
Total Watts (DC) of the System	4,440	7,030
Assumptions		
Current Cost per kWh	\$0.1250	\$0.1250
Average Annual Increase in kWh Charges	4.2%	4.2%
kWh (AC) Generated per kW (DC) Installed	1,336	829
Life of System	30	30
Cost and Incentives Information	4.44	7.03
Total Cost per DC Watt (Installed)	\$3.05	\$2.85
Initial Installed Price	\$13,542	\$20,036
Incentive Information		
Less Federal Tax Credits	\$3,521	\$5,209
Potential Tax Savings from Depreciation	\$0	\$0
Net Effective Cost	\$10,021	\$14,826
Payback and Return		
Average kWh Generated per Year	5,534	5,437
Total kWh Generated (over life of system)	166,028	163,118
Total Avoided Energy Costs	\$39,578	\$38,884
IRR (Includes Savings from Depreciation)	8.5%	5.5%
Average Annualized Yield (30 Year CD)	4.7%	3.3%
Environmental Benefits		
Pounds of CO <sub>2</sub> Not Emitted	344,896	338,851
Equivilent Number of Trees Planted	951	935

## Annual Payback Analysis: Roof Mounted Scenario # 1: 4.44 kW System Size

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This is a simple Pay Back and Cash Flow Analysis for 30 years of system operation.

Year	kWh	Annual kWh	Annual	Federal	Payback
	Cost	Generated	Avoided	Tax	·
			Energy	Credit	
			Costs		
		numbers repre			
	assumptions that can vary and should only be used as a guide.				
4	<b>\$0.4050</b>	<b>#0.000</b>			
1	\$0.1250	5,932	\$741	\$3,521	\$9,280
2	\$0.1303	5,902	\$769	\$0	\$8,511
3	\$0.1357	5,873	\$797	\$0	\$7,714
4	\$0.1414	5,843	\$826	\$0	\$6,887
5	\$0.1474	5,814	\$857	\$0 \$0	\$6,031
7	\$0.1535	5,785	\$888	\$0	\$5,142
	\$0.1600	5,756	\$921	\$0	\$4,221
8	\$0.1667	5,727	\$955	\$0 \$0	\$3,267
9	\$0.1737	5,699	\$990	\$0	\$2,277
10	\$0.1810	5,670	\$1,026	\$0 \$0	\$1,250
11 12	\$0.1886	5,642	\$1,064	\$0 \$0	\$186
13	\$0.1965	5,614	\$1,103	\$0 \$0	\$0 \$0
14	\$0.2048 \$0.2134	5,586	\$1,144	\$0	\$0 \$0
15	\$0.2134	5,558 5,530	\$1,186 \$1,230	\$0	\$0 \$0
16	\$0.2224	5,502	\$1,230	\$0	\$0
17	\$0.2414	5,475	\$1,322	\$0 \$0	\$0
18	\$0.2516	5,447	\$1,370	\$0	\$0
19	\$0.2621	5,420	\$1,421	\$0	\$0
20	\$0.2731	5,393	\$1,473	\$0	\$0
21	\$0.2846	5,366	\$1,527	\$0	\$0
22	\$0.2966	5,339	\$1,583	\$0	\$0
23	\$0.3090	5,312	\$1,642	\$0	\$0
24	\$0.3220	5,286	\$1,702	\$0	\$0
25	\$0.3355	5,259	\$1,765	\$0	\$0
26	\$0.3496	5,259	\$1,839	\$0	\$0
27	\$0.3643	5,259	\$1,916	\$0	\$0
28	\$0.3796	5,259	\$1,997	\$0	\$0
29	\$0.3956	5,259	\$2,080	\$0	\$0
30	\$0.4122	5,259	\$2,168	\$0	\$0

# Annual Payback Analysis: <a href="mailto:Roof Mounted Scenario#2:7.03">Roof Mounted Scenario#2:7.03</a> kW System Size

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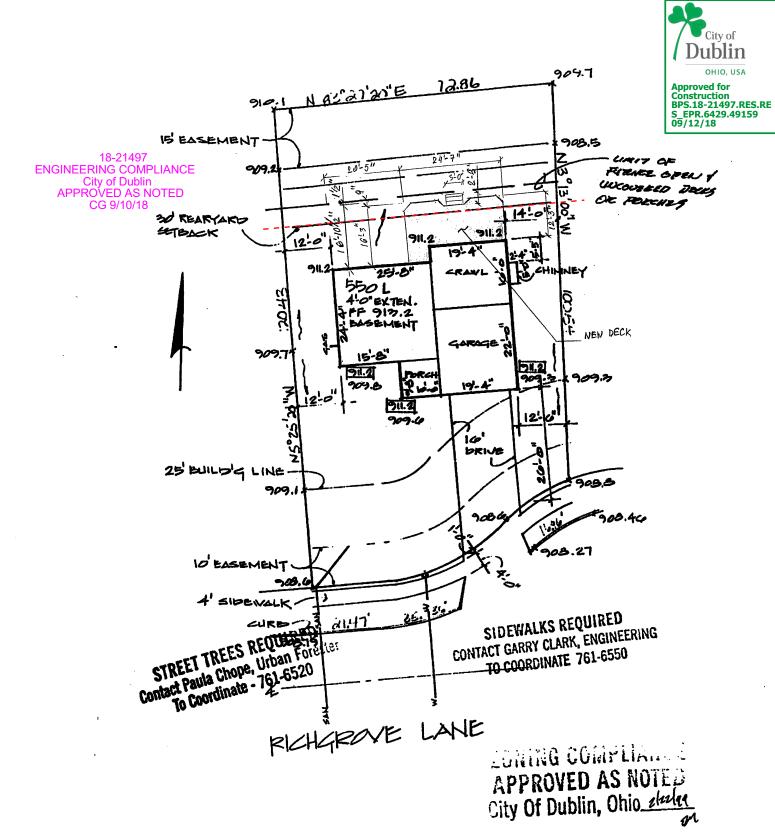
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This is a simple Pay Back and Cash Flow Analysis for 30 years of system operation.

Year	Kw Cost	kWh Generated	Annual Avoided Energy Costs	Federal Tax Credit	Payback
	These numbers represent estimates and assumptions that can vary and should only be used				
	assumption				
1	\$0.1250	5,828	\$728	\$5,209	\$14,098
2	\$0.1303	5,799	\$755	\$0	\$13,343
3	\$0.1357	5,770	\$783	\$0	\$12,559
4	\$0.1414	5,741	\$812	\$0	\$11,748
5	\$0.1474	5,712	\$842	\$0	\$10,906
6	\$0.1535	5,684	\$873	\$0	\$10,033
7	\$0.1600	5,655	\$905	\$0	\$9,128
8	\$0.1667	5,627	\$938	\$0	\$8,190
9	\$0.1737	5,599	\$973	\$0	\$7,218
10	\$0.1810	5,571	\$1,008	\$0	\$6,209
11	\$0.1886	5,543	\$1,046	\$0	\$5,164
12	¥ 0000	5,515	\$1,084	\$0	\$4,080
13	\$0.2048	5,488	\$1,124	\$0	\$2,956
14	\$0.2134	5,460	\$1,165	\$0	\$1,791
15	\$0.2224	5,433	\$1,208	\$0	\$583
16	\$0.2317	5,406	\$1,253	\$0	\$0
17	<b>**</b>	5,379	\$1,299	\$0	\$0
	\$0.2516	5,352	\$1,346	\$0	\$0
19	\$0.2621	5,325	\$1,396	\$0	\$0
20	<b>4</b> • · · · · ·	5,298	\$1,447	\$0	\$0
21	\$0.2846	5,272	\$1,500	\$0	\$0
22	7	5,246	\$1,556	\$0	\$0
23	\$0.3090	5,219	\$1,613	\$0	\$0
24		5,193	\$1,672	\$0	\$0
25	\$0.3355	5,167	\$1,734	\$0	\$0
26	· · · · · · · · · · · · · · · · · · ·	5,167	\$1,807	\$0	\$0
27	\$0.3643	5,167	\$1,882	\$0	\$0
28	·	5,167	\$1,962	\$0	\$0
29	-	5,167	\$2,044	\$0	\$0
30	\$0.4122	5,167	\$2,130	\$0	\$0

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- Product warranty information is provided below:
  - o The SolarEdge inverter comes with a 25 year warranty and the optimizers have a 25 year warranty
  - The solar panels come with a minimum of a 25 year production output warranty.
- OPS will provide a 15 year warranty on the workmanship of the installation.
- Payment terms and project timeline consist of the following:
  - o 30% due Up-Front, then 30% 3 weeks from start date, & final 40% when complete & operational.
  - o This size project will take approximately 3 days to complete.



GUILDING CO. DAMDSON-PHILLIPS, INC SCALE: 12-201

LUT NO 30 SUBDIVISION BRIGHTON PARK

STREET ADDRESS 5692 RICHGROVE LAND DRAWN 1:12:94 SHT. NO. 40