

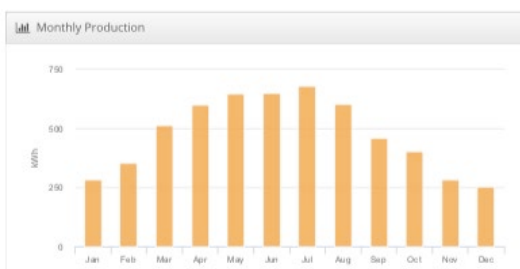
Shading Analysis Methodology



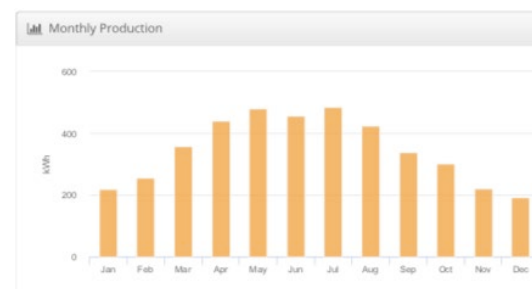
Honeydew Energy Advisors received the pictured plans for a new construction to be located at 999 Example Street. It inputted this design into the Helioscope shading analysis software to determine shading impact on a solar array located at 997 Example Street. Helioscope is a commonly used and respected shading analysis software within the solar industry.

Helioscope data estimates that shading from the new construction will decrease solar production by 27.2%. The system owner reported a current annual production of 5,270 kWh per year. Therefore the array is expected to produce 1,433 fewer kWhs per year, ceteris paribus.

Pre-Construction



Post-Construction



Financial Analysis Methodology



Assumptions

The financial analysis was conducted using Honeydew's proprietary District of Columbia financial model. All numbers are presented in the tables are real dollars not adjusted for present value and using the following assumptions:

| | |
|--------------|-----------------------------|
| 2.0% | Electric Inflation |
| 0.50% | Panel Degradation/Yr |
| 83% | SREC:ACP Ratio |

Solar Renewable Energy Credit (SREC) prices are based on a 85% of the Alternative Compliance Payments that undergird demand for SRECs. It also factors in a discount paid to an SREC aggregator, which is needed for all residential scale solar energy systems in DC. This analysis does not consider income tax paid on SREC income from system owner.

Summary

| | |
|-----------------|------------------------------|
| 1.19 | System Size (kW) |
| 1,433 | Production (kWh) |
| 0.116 | Current Rate (\$/kWh) |
| \$761 | 1 Year Net Income |
| \$6,559 | 10 Year Net Income |
| \$11,941 | 20 Year Net Income |

If we assume a 2% general inflation rate, the net present value on the 20 years of marginal cash flow is equal to **\$9,894**

Financial Analysis Detail



| Year | Solar Production (kWh) | Utility Electric Rate (\$/kWh) | SREC Value (\$/MWh) | Energy Cash Flow | SREC Cash Flow | Annual Cash Flow | Cumulative Cash Flow |
|------------|------------------------|--------------------------------|---------------------|------------------|-----------------|------------------|----------------------|
| 1 | 1,433 | \$ 0.116 | \$ 415 | \$ 166 | \$ 595 | \$ 761 | \$761 |
| 2 | 1,426 | \$ 0.118 | \$ 415 | \$ 169 | \$ 592 | \$ 761 | \$1,522 |
| 3 | 1,419 | \$ 0.121 | \$ 415 | \$ 171 | \$ 589 | \$ 760 | \$2,282 |
| 4 | 1,412 | \$ 0.123 | \$ 332 | \$ 174 | \$ 469 | \$ 643 | \$2,925 |
| 5 | 1,405 | \$ 0.126 | \$ 332 | \$ 176 | \$ 466 | \$ 643 | \$3,568 |
| 6 | 1,398 | \$ 0.128 | \$ 332 | \$ 179 | \$ 464 | \$ 643 | \$4,211 |
| 7 | 1,391 | \$ 0.131 | \$ 332 | \$ 182 | \$ 462 | \$ 644 | \$4,854 |
| 8 | 1,384 | \$ 0.133 | \$ 332 | \$ 184 | \$ 459 | \$ 644 | \$5,498 |
| 9 | 1,377 | \$ 0.136 | \$ 249 | \$ 187 | \$ 343 | \$ 530 | \$6,028 |
| 10 | 1,370 | \$ 0.139 | \$ 249 | \$ 190 | \$ 341 | \$ 531 | \$6,559 |
| 11 | 1,363 | \$ 0.141 | \$ 249 | \$ 193 | \$ 339 | \$ 532 | \$7,092 |
| 12 | 1,357 | \$ 0.144 | \$ 249 | \$ 196 | \$ 338 | \$ 533 | \$7,625 |
| 13 | 1,350 | \$ 0.147 | \$ 249 | \$ 199 | \$ 336 | \$ 535 | \$8,160 |
| 14 | 1,343 | \$ 0.150 | \$ 249 | \$ 202 | \$ 334 | \$ 536 | \$8,696 |
| 15 | 1,336 | \$ 0.153 | \$ 249 | \$ 205 | \$ 333 | \$ 537 | \$9,233 |
| 16 | 1,330 | \$ 0.156 | \$ 249 | \$ 208 | \$ 331 | \$ 539 | \$9,772 |
| 17 | 1,323 | \$ 0.159 | \$ 249 | \$ 211 | \$ 329 | \$ 540 | \$10,312 |
| 18 | 1,316 | \$ 0.162 | \$ 249 | \$ 214 | \$ 328 | \$ 542 | \$10,853 |
| 19 | 1,310 | \$ 0.166 | \$ 249 | \$ 217 | \$ 326 | \$ 543 | \$11,396 |
| 20 | 1,303 | \$ 0.169 | \$ 249 | \$ 220 | \$ 325 | \$ 545 | \$11,941 |
| Tot | 27,347 | | | \$ 3,841 | \$ 8,100 | \$11,941 | |