

Solar Economics Analysis

System cost:

While a total cost for the systems varies depending on the final design, staff have worked with our third-party experts, ARC Alternatives, to provide estimates for each system based on average prices in the solar industry per watt and the sizes of the system. Accordingly, \$24,600,000 can serve as an initial estimate for the cost of this system should the County pursue ownership. This information is summarized in the two tables below.

Relative Size	Average Capital Cost Basis (\$/W)
Small (< 350 kW)	\$ 6.10
Medium (350-1000 kW)	\$ 4.34
Large (> 1000 kW)	\$ 3.75

Site Name	System Size (kW)	Relative Size	Estimated Capital Cost
168 & 142 W. Alisal St.	737.6	Medium	\$ 3,700,000
Natividad Medical Center	3,798.4	Large	\$ 16,400,000
1200 Aquajito Rd.	398.0	Medium	\$ 2,000,000
1590 Moffett St.	502.2	Medium	\$ 2,500,000
Total	5,436.2	-	\$ 24,600,000

NEM 2.0 vs NEM 3.0:

The difference in generation value between NEM 2.0 and NEM 3.0 underscores the time imperative to meet PG&E deadlines. Using hourly load profiles for one year at each site, the difference in value of proceeding with systems under NEM 2.0 compared to NEM 3.0 is estimated to be \$235,000 annually, which is a 16% difference. This value does not include any construction or debt financing costs. This information is summarized in the table below.

Site Name	System Size (kW)	Solar Production (kWh)	Exported Energy Percentage	Year 1 Utility Bill Savings (NEM 2)	Year 1 Utility Bill Savings (NEM 3)	Difference
168. & 142. W. Alisal	737.6	1,080,380	7%	\$ 289,000	\$ 279,000	3%
1200 Aguajito Rd.	398.0	569,370	30%	\$ 165,000	\$ 128,000	22%
1590 Moffett St.	502.2	746,973	48%	\$ 144,000	\$ 92,000	36%
Natividad Medical Center	3,798.4	5,543,670	21%	\$ 892,000	\$ 756,000	15%
Total	5,436.2	7,940,393	22%	\$ 1,490,000	\$ 1,255,000	16%