

*Presentation for
Sonoma County Board of Supervisors*

Photovoltaic Energy Systems

Charles M. Schulz - Sonoma County Airport
& Sonoma County Fleet Operations

September 2019



Agenda

- ▶ Summary of projects.
- ▶ Benefits of projects.
- ▶ Terms & special conditions.
- ▶ Recommended actions.



Summary of Solar Projects

- ▶ Installation of photovoltaic solar panels include:
 - Airport long term parking lot, canopy structure.
 - Fleet Operations Division building, roof mounted.
- ▶ Sizes of the systems will meet 100% of each facilities electrical needs:
 - Airport system is sized at 834kW (DC).
 - Fleet system is sized at 77.76kW (DC).



Benefits of Solar

- ▶ \$3,627,981 savings to County over 20 years.
- ▶ The project will reduce greenhouse gas emissions by 1,023 metric tons, the equivalent to 2,500,956 miles driven by an average vehicle.
- ▶ The canopy structure provides protection from weather elements, and produces clean and renewable electricity for the Airport.
- ▶ Roof mounted solar on the Fleet building leverages the roof above.



Background of Solar Projects

- ▶ A Request for Proposals and Qualifications (RFPQ) was released.
- ▶ A pre-bid conference and site-walk through was attended by 29 interested firms.
- ▶ Eight firms responded to the RFPQ.
- ▶ ForeFront Power LLC was determined as the best value based on 6 factors:
 - 1) Fixed kW rate.
 - 2) No rate escalation.
 - 3) Energy cost.
 - 4) PG&E savings.
 - 5) Total net savings.
 - 6) Net present value.



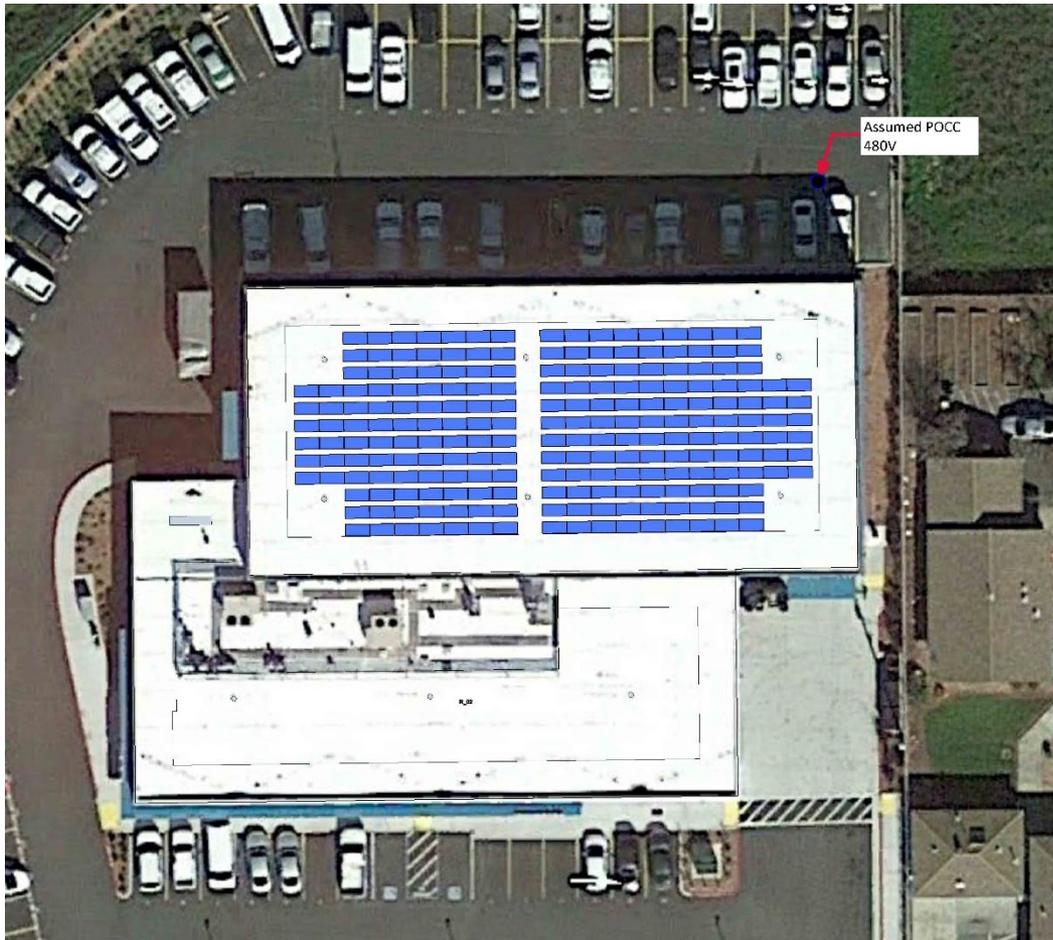
Solar Project

Airport Site - Canopy Structure



Solar Project

Fleet Site - Roof Mounted



Projected Savings to County

▶ Airport Site:

- Year 1 savings = \$52,778
- Year 5 savings = \$355,516
- Year 10 savings = \$962,544
- Year 20 savings = **\$3,108,480**

▶ Fleet Site:

- Year 1 savings = \$14,405
- Year 5 savings = \$82,168
- Year 10 savings = \$192,478
- Year 20 savings = **\$519,501**



Projected Schedule

▶ Airport Site

- Design complete - January 2020
- Permitting complete - March 2020
- Construction - April through July 2020
- Operational - July 2020

▶ Fleet Site

- Design complete - November 2019
- Permitting complete - January 2020
- Construction - June 2020
- Operational - October 2020



PPA Terms & Special Conditions

- ▶ ForeFront Power LLC will:
 - Install the solar systems.
 - Obtain financing.
 - Own, maintain, and operate solar systems.
 - Provide a Public Production Portal on our websites.



Listing: current generation; weekly generation; environmental benefits; current weather

PPA Terms & Special Conditions

▶ County will:

- Be able to elect to purchase the systems over the 20 year term, with an optional 5 year renewal of terms.
- Opt to purchase the systems completely at 6 years and beyond.
- Can purchase the systems at fair market value or have it removed at no cost.



Recommended Actions

- ▶ Conduct a public hearing as required by Government Code 4217.10. Section 4217 creates a procurement methodology for solar power purchase and similar agreements allowing the County to perform a best value procurement in light of the benefits of the system to the County.
- ▶ Adopt a Resolution making certain findings required by Government Code 4217.10 and making other determinations regarding the subject projects.
- ▶ Authorize the Chair to execute a joint Power Purchase Agreement (PPA) with ForeFront Power LLC for installation of photovoltaic energy systems at two County locations.

