

District Office Solar Photovoltaic Carport System

SCOPE

In line with the District facilities master and sustainability plans, this project was established to take advantage of Proposition 39 California Clean Energy Act funding to procure and install a self-funding solar photovoltaic carport facility at the District Office. SBCCD has engaged SunPower Corporation to design, construct, install, commission and maintain a turnkey 174-kWdc solar photovoltaic electric self-generation system, including a 25-year performance guarantee of system output as well as a 25-year operation and maintenance services agreement.

SCHEDULE

The project has achieved substantial completion as of January 30 and received final sign-off from the Division of the State Architect (DSA) inspector. The newly refurbished parking lot was opened as of February 5 and we received approval of the Permit-To-Operate from Southern California Edison the same day!

The system is currently generating power and has been validated by SunPower as to the performance guarantee (PerGua) and maintenance & operation (M&O) period. Installation of the electrical charging stations is complete and they are now operational. Staff is in the process of setting up the charging account with fees expected to be between \$0.50 and \$1.00 per hour.

CHALLENGES

The plan was to install emergency phone within this contract. The new Chief of Police has presented some concerns. This is still under discussion and will be procured under different contract.

SunPower is launching a new monitoring system that will show the overall power generation, cost avoidance, and energy savings. This system is expected to be live by end of June 2018. Reports will be shared with the community.

COST

The overall design, construction and operation cost for the project is \$840,000 (turnkey). The District factored 10% design and construction contingency and soft costs. The estimated 25-year net saving to the District is \$475,000. The project is approved by the California Community College Chancellor's Office for spending authorization up to \$890,000 out of Prop 39. The project will include four electrical charging stations. The project is 100% managed by SBCCD staff, which saves approximately 8-10% of the project value.

THINGS TO FOLLOW

- Received PTO from SCE. ✓
- Complete installation of the EV Charging stations. ✓
- Receive DSA approval for the project.
- File Form F for Proposition 39 closeout.
- Monitor the system output to make sure it achieves the promised savings.