

## **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 main milestone is that SunPower file the Permit-To-Operate (PTO) with Southern California Edison before December 31, 2017 indicating the project has achieved substantial completion. The system is currently in design development and will be submitted to the Division of the State Architect (DSA) in November for review and approval.

### **CHALLENGES**

One of the challenges for this project is that during due diligence analysis for the soil, it was uncovered that the District Office is located in a high liquefaction zone. This means the proposed foundation needs to be reinforced and the project submitted to California Geological Survey (CGS) for review and approval. Factoring CGS review time into the schedule, the revised PTO is now December 29, 2017, which will still achieve the main milestone.

SunPower solar carport system is a DSA pre-approved system. However, there is a potential for DSA to delay the District-designed system review and approval, which may also impact the PTO milestone.

### **COST**

The overall design, construction and operation cost for the project is \$840,000 (turn-key). The District factored 10% design and construction contingency beyond the contractor control, such as regulatory agency enforced changes by DSA. 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.

### **THINGS TO FOLLOW**

- Complete the design and receive DSA approval.
- Complete the construction and receive PTO.
- Monitor the system output to make sure it achieves the promised savings.