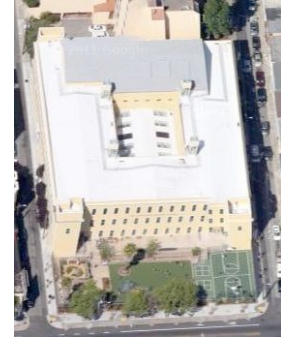


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## San Francisco Friends School

Site Address: 250 Valencia St, San Francisco, CA 94103

Type of PV System:	Rooftop
Current PG&E Rate Schedule:	A10SX
Annual Energy Usage:	308,564 kWh
Maximum System Size:	72 kW DC
Maximum System Output:	93,121 kWh
Energy Offset:	31%



Issues: Roof orientation; Shading from surrounding buildings and vegetation  
Opportunities: High energy offset; Rate Schedule change

The San Francisco Friends School building was renovated in 2008 and is located in the Mission Dolores neighborhood. The building rooftop has space available for a PV system in the blue highlighted areas shown in Figure 1. The western facing roof is composite shingle and has a 20 degree slope and 275 degree azimuth. The eastern exposure has a 20 degree slope and 95 degree azimuth, and is also a comp. shingle roof surface. This roof surface has permanent anchors for fall protection installed along the length of the ridge. The south facing section of the roof is a vinyl membrane roof surface. It has a 3-foot parapet wall along the edge of the roof, with a 16 degree slope and 185 degree azimuth. All south facing, membrane roof surfaces may be removed from the proposed PV system, depending on cost associated with installation specific to this roof type. The south facing portion of the proposed PV system is 15 kW. The roof is accessible from a stairwell within the building.

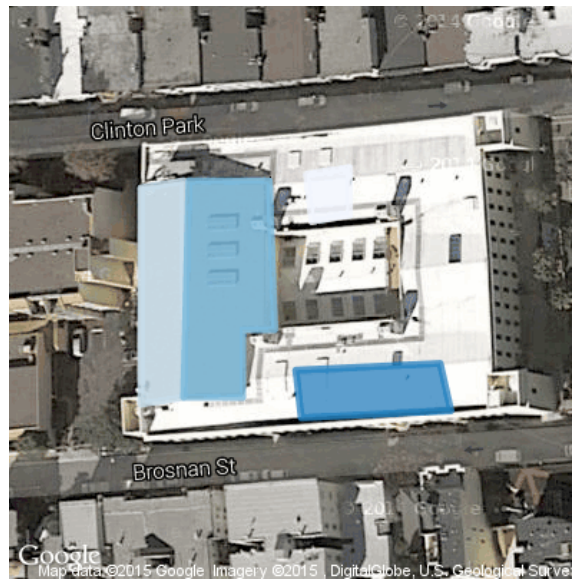


Figure 1 San Francisco Friends School Top View

There is one meter on site that is located in the equipment room on the northeast corner of the first floor. The equipment room has sufficient room for inverters and disconnects, and also has available Internet connection. The maximum size PV system is estimated to offset 31% of the total energy usage of the site.

The main service is rated at 2000A. The service is a 3 phase/4 wire 240V/120V system.