

School Case Study



Project Profile

Joining many other green Marin County Schools, Ross School has gone solar. Ross School chose **SolarCraft** to design and install their 111.7 kilowatt solar electric system, which will provide enormous savings to their facility. The project includes the newly rebuilt main school building and the gymnasium on the property — now powered by the sun.

Phase One of the system was installed on the main building during the school's massive renovation. It consists of 312 American-made Sharp 240 watt solar modules. The second phase was later installed on the newly completed gymnasium and consists of 154 modules. The school is now able to utilize clean energy that is sustainable and price stable.

The solar panels are mounted on the steel, corrugated roof using

an engineered non-penetrating mounting system that is low-profile and attractive on the new buildings. The panels span over 8,174 square feet and help insulate and protect the roof.

The new system will reduce the school's utility costs by thousands every year, while reducing the load on the local utility grid. Excess power generated during the day is banked by PG&E for credit towards future use.

The solar energy system will generate approximately 161,317 kilowatt hours annually, generating enough clean energy each day to power 56 homes. Over the next 30 years, the air pollution saved will be equivalent to eliminating over 6.8 million miles of driving and spare the air nearly 3,000 tons of carbon emissions.



Specifications

System Size	111.7 kW DC 96.1 kW AC
Location	Ross, CA
Solar Panel	(466) Sharp 240 W
Inverter	(1) Satcon PVS-30 (208 V) (2) Satcon PVS-50 (208 V)
Mounting System	ProSolar non-penetrating
Estimated Annual kWh	161,317
Cumulative Cash Positive	5-6 Years

Customer Profile

Ross School is a unique single school K-8 district serving 378 children on one campus. Located in the heart of the town of Ross, in Marin County, the school serves the students of Ross and includes sections of Kentfield and San Anselmo, which border the town boundaries. Class sizes in K-8 average less than 20 students. Ross School students reside in the Tamalpais Union High School District.

About SolarCraft

SolarCraft is one of the most experienced solar energy contractors in California. For more than 27 years this certified Green Business has been providing Solar Electric, Solar Pool Heating and Solar Hot Water services including consulting, design, installation, financing, monitoring and maintenance. **SolarCraft** is a full-service solar contractor, employing licensed and certified solar installers who are experts in their field. Since 1984 **SolarCraft** has installed more than 4,700 solar energy systems in California with over 1.3 million square feet of solar collector surface area, saving customers more than \$7 million annually and preventing production of more than 28,000 tons of greenhouse gases every year.

