



CASE STUDY
EMERYVILLE CITY HALL
 MUNICIPAL

| | |
|------------------------------|------------------------|
| System Size | 47.9 kW DC |
| Solar Equipment | 152 Schott 300 |
| Est. Production | 62,716 kWh/year |
| Est. CO ² Avoided | 75,259 lbs/year |
| Est. Load Covered | at least 40% |



The Project Story

Many municipalities have taken leadership roles in utilizing renewable energy for city properties. Officials at the City of Emeryville decided to install a solar system at City Hall in order to demonstrate their commitment to the environment *and* reduce their carbon footprint while also reducing operating costs. Because City Hall is a municipal building it was imperative to coordinate with many engineers and officials, meet seismic requirements and coordinate installation with city schedules. The City Hall building had a peak demand of 118 kW of electricity per year and officials wanted to meet at least 40% of that demand via solar while staying within budget.

The Sun Light & Power Solution

Sun Light & Power is dedicated to providing customized renewable energy systems for our clients. Design Consultants and Engineers worked closely with the City's engineers on all issues to attain maximum production. They installed several custom features including mounting brackets, wire trays, welded mounting superstructure to cover large truss spans, and suspended inverter brackets in order to satisfy all seismic safety codes. SLP chose larger sized panels to span the wide set of the mounting racks and navigated a rigorous permitting process. The result is a solar system designed to provide clean energy and generate significant savings for decades.

➤ **Environmental Benefits**

Every year this system removes the equivalent of 9 cars from the road, or prevents 105 barrels of oil from being drilled, transported and burned. It would take 10 acres of trees to sequester this much CO² every year.

➤ **Financial Savings**

Emeryville City Hall's system will significantly reduce their electricity bill and provide years of free energy and operating cost control. In addition to generating electricity, the PV system also shades and cools City Hall and will save the City of Emeryville over \$500K in the next 30 years.

➤ **Customer Profile**

The City of Emeryville is known as an environmentally conscientious and progressive city, providing services such as the Emery-go-round, a free shuttle that connects to local BART stations, Amtrak, schools, offices, and retail centers to reduce traffic and harmful gas emissions. They also lead with their support of the arts, local business development, schools, green parks and solar. See more at www.ci.emeryville.ca.us

➤ **Sun Light & Power Profile**

Passionate people tend to get very good at what they do. With 34 years of experience as a leader and pioneer in the solar industry, Sun Light & Power is dedicated to providing the highest possible design, engineering and installation expertise for solar electric and thermal energy needs and places high value on lasting customer relationships.



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