

CASE STUDY

ELKS LODGE POOL HEATING



PROJECT OVERVIEW | COMMUNITY CENTER POOL HEATING RETROFIT

OBJECTIVES

- Minimize **pool heating cost and variability**
- Eliminate **natural gas consumption**
- Maximize **net energy savings**

SPECIFICATIONS

- Location:** Palo Alto, CA, USA
- Year:** 2019
- Demand:** 3,300 sqft pool
- Size:** 120 SunDrum modules
- Power:** 78 kW

SOLUTION SUMMARY

SunDrum Solar nested **120 SunDrum Collectors** underneath an **existing PV array** to cost-effective **reduce pool heating demand** and net expenditure on energy and heating..

Collectors were installed on an existing solar canopy array with **no changes required to PV mounting, appearance, or warranties.**

WHY SUNDRUM SOLAR?

SunDrum Systems combine **photovoltaic (PV), solar thermal, and heat pump technology** to meet electrical and thermal demand simultaneously.

WHAT IS SUNDRUM SOLAR?

The **award-winning, patented SunDrum Collector** mounts behind PV panels to supercharge any solar system. Collectors cool the panels (improving performance) and capture usable thermal energy. Heat pump integration supports a wide range of heating and cooling applications.

HOW SUNDRUM SOLUTIONS DIFFER

More power captured

3x more solar power per panel than PV

More useful heat

Space & water heating, up to 160°F

Better financial returns

Faster payback than PV or solar thermal

Made in the U.S.A.

Predictable timelines, increased rebates



85% reduction

Annual natural gas consumption



13,000 therms

Annual thermal energy output



72 tonne CO2e

Annual emissions reduction



Existing Lodge Carport PV Arrays



Collectors Visible Under Carport

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