

# CASE STUDY

SAN FRANCISCO MULTIFAMILY



## PROJECT OVERVIEW | MULTIFAMILY HYBRID SOLAR RETROFIT

### OBJECTIVES

- Retrofit **existing solar array** to add **solar thermal**
- Provide **efficient, scalable hot water heating**
- Maximize **usable energy from available roof space**

### SPECIFICATIONS

- Location:** San Francisco, CA, USA
- Year:** 2021
- Demand:** Multifamily water heating
- Size:** 34 SunDrum modules
- Power:** 27 kW (thermal)

### SOLUTION SUMMARY

SunDrum Solar nested **34 SunDrum Collectors** behind an **existing PV solar array** to provide continuous heating at high efficiency for a multifamily complex. The **award-winning, patented** SunDrum Systems captures thermal energy - be it day or night, cloudy or sunny - to ensure **24/7 water heating**.

### 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 solar power captured**  
*3x more 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*



**COP = 6**

Heat pump efficiency



**2,400 therms**

Annual energy output



**Retrofitted**

No additional roof space required



SunDrum Mounted Under Existing PV



Rooftop Solar Array

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