CASE STUDY

NET-ZERO ADU

PROJECT OVERVIEW | SUSTAINABLE ACCESSORY DWELLING UNIT (ADU)

OBJECTIVES

Minimize **ADU cost of ownership**
Offset **up to 100% of anticipated energy demand**
Maximize **sustainability and efficiency**

SPECIFICATIONS

Location: San Jose, CA, USA
Year: 2019
Demand: 100% of ADU heating & cooling demand
Size: 10 SunDrum modules (12 PV panels)
Power: 9.5 kW thermal + 6.5 kW electrical

SOLUTION SUMMARY

SunDrum Solar nested **10 SunDrum Collectors** behind **12 PV panels** to offset **100% of the electrical, space heating and cooling and hot water costs** for a sustainable ADU project. For homes with limited roof space, SunDrum Collectors dramatically improve solar energy collection and increase useful energy to the client.

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

92% reduction
Lifetime energy costs

324 therms
Annual thermal energy output

4,000 kg CO2e
Annual emissions reduction

ADU Street View

South-Facing Hybrid Panels

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