CASE STUDY

BAKERSFIELD HOTEL

PROJECT OVERVIEW | HOTEL HYBRID SOLAR

OBJECTIVES

Offset high **heat demands.**
Maximize **usable energy from available roof space**
Provide **24/7 heating from solar energy**

SPECIFICATIONS

Location:	Bakersfield, CA, USA
Year:	2017
Demand:	Hotel space, pool, & water heating
Size:	42 SunDrum modules + 18 PV panels
Power:	27 kW (thermal) + 15 kW (electrical)

SOLUTION SUMMARY

SunDrum Solar nested **42 SunDrum Collectors** behind **60 conventional PV panels** to generate **5x more solar energy** than a conventional PV array.

The **award-winning, patented** SunDrum System supplies on-demand, 24/7 solar energy to supply the hotel's pool and water heating needs. With incentives, the system paid for itself in **less than 4 years.**

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

13 tonne CO2e
Annual emissions reduction

2,400 therms
Annual energy output

4 years
100% payback in < 4 years

60 Rooftop Panels (42 with SunDrum Collectors)

Integrated Control System

sundrumsolar.com

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Made in USA

ICC-SRCC OG-100 Certified