

## PROJECT OVERVIEW | RESIDENTIAL SPACE, WATER, AND POOL HEATING

### OBJECTIVES

- Offset **up to 100% of heating and cooling demand**
- Provide **maximum power with limited roof space**
- Maximize **efficiency and cost savings**

### SPECIFICATIONS

- Location:** Washington, D.C., USA
- Year:** 2016
- Demand:** 2,100 sqft home + 500 sqft pool
- Size:** 32 SunDrum modules (46 PV panels)
- Power:** 15.5 kW

### SOLUTION SUMMARY

SunDrum Solar nested **32 SunDrum Collectors** behind **46 PV panels** to offset **92% of space, water, and pool heating demand** and **100% of space cooling demand** (via heat pump integration) **year-round** for a residential home.

In the first 12 months, SunDrum Solutions reduced billed energy consumption from 80 MWh to 7 MWh.

### 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*



**91% reduction**

Heating and cooling costs



**2,490 therms**

Annual energy output



**10 tonne CO2e**

Annual emissions reduction



Rooftop Solar Array



Project Aerial View

