

# SunStack Energy: Capturing Heat Through Cooling

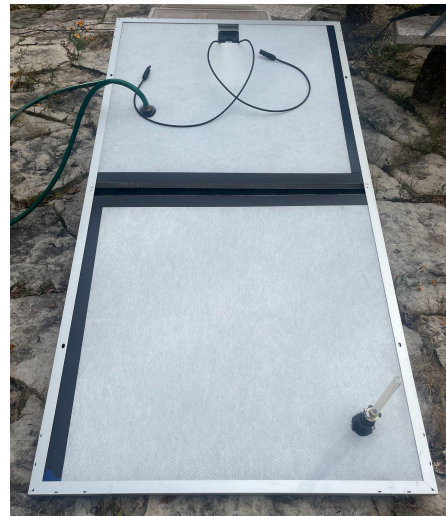
## Problems:

1. PV modules heat up, reducing power output
2. Heating water is expensive

- Sunlight heats up PV modules causing a voltage drop that reduces the power produced
- Cooling a module by 25°C boosts PV output by ~10%
- Thermal energy captured by cooling fluid is double the electrical power produced by the module, and free!



SunStack Heat Exchanger



SunStack Support Structure

## Solution:

**SunStack device cools PV modules, increasing PV output and capturing thermal energy**

- High surface area & a high fluid flowrate maximize heat transfer
- Lightweight and low-cost heat exchanger design
- Device fits into existing PV module frame for easy handling & fast installation
- Perfect for commercial hot water users