

Operational Nanofluid-Based Solar Panel Cooling System

The world is striving for a sustainable future, the power of the sun is our most abundant resource

Solar owners are face with an expected challenge – extreme heat. Solar panels, are losing efficiency in the blistering sun

Temperature (°C)	Efficiency Loss (%)
25	0%
35	2%
45	5%
55	8%
65	12%
75	15%

State	Over-Temperature Issues	Efficiency Loss Threshold (°F)
Arizona	Common	120°F
Nevada	Common	120°F
Texas	Occasional	110°F
California	Occasional	110°F
New Mexico	Occasional	110°F
Florida	Occasional	105°F
Colorado	Occasional	100°F

The average efficiency loss due to overheating in solar panels is estimated to be around 10-20%, depending on location and environmental conditions. The goal is to keep the panels below these critical temperature thresholds to maintain or even enhance their efficiency.

ONSCS is an innovative, low-cost, and easy-to-implement technology that significantly boosts the efficiency of solar panels by actively cooling them. This solution is designed to overcome the limitations of existing passive techniques and deliver a sustainable, cost-effective, and commercially viable product.

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