GLOBAL CASE STUDY

Solis Residential Hybrid PV Inverter

S6-EH1P11.4K-H-US

CASE STUDY

ARIZONA

Background: A Solar Pioneer Chooses Solis

Steve Neil has been working with solar for over 20 years and claims he was one of the very first interconnection requests his utility had ever received. Now a retired homebuilder turned software developer, he dedicates his time solving problems for large solar installation companies as well as helping his friends, neighbors and family to go solar. He actively does product research and system design for several contractors, both commercial and residential throughout Arizona, Nevada, and Utah.

Not only has he become a local expert on solar technology, but he is also a father of eight. He dedicates his time to helping his now grown children and their 16 grandchildren benefit from the power of the sun.

Arizona, USA 23.85kW S6-EH1P11.4K-H-US

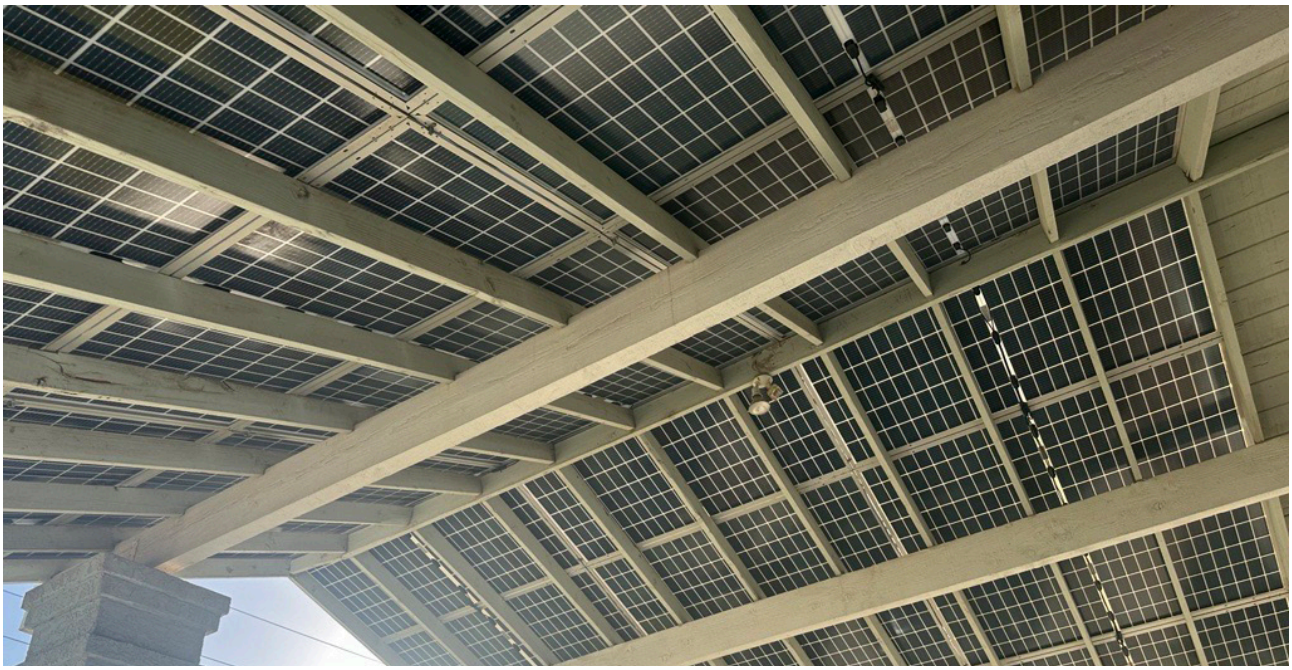
Challenges & the Solution: Adding a Bifacial Carport and Whole Home Backup

When it came to his own home system and his plan for building his bifacial carport and full backup system, he needed a solution with high enough amperage inputs to support bifacial modules without clipping but also integrate seamlessly into his existing system. That is why he chose Solis.

“I wanted to add storage and backup to my legacy system, and I knew that meant either replacing my 12-year-old inverters or building upon that foundation with the amazing feature set of a hybrid inverter. I considered all the hybrid offerings over 10 kW and picked the Solis high voltage 11.4 kW model, the integrated AC bypass switch being the icing on the cake. The installation was smooth due to quality documentation, the commissioning was as simple as I've done. Many power outages have occurred over the first year, and I wouldn't have known were it not for the texts from my utility."

Steve also mentioned that the 14.4 kW solar carport and Solis 11.4 kW inverter are producing 24,000 kWh annually, which is more than enough to offset the entire consumption of his home and 2 EVs. The 21 kWh of battery allows for arbitrage of the very expensive peak period power during late afternoons resulting in hardly any utility bill other than required fees.

"Solis continues to innovate which, for me, cements the Solis hybrids as best in class. They recently released a new feature via a firmware update to provide backup AC power solely from the solar input, even if the battery is empty or has malfunctioned or if there never was a battery installed."



System Overview

- Total System Size: 23.85kW, carport is 14.4kW of 400W bifacial modules
- Inverter: S6-EH1P11.4K-H-US
- Battery: Pylontech Force H1

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