

Tigo Success Story #143:

10-12% more energy for this beautiful California residence

<u>Location:</u>	Northridge, South California
<u>System Size:</u>	Residential, roof top mounted 9.61 kW
<u>Smart Modules:</u>	31 Sunpreme Smart Bifacial 310W Tigo® TS4-L (Long String) SMA Sunny Boy inverters



31 Smart Bifacial Modules on the front of the house, facing the street

Problem

The home owners of this Northridge terracotta tile beauty were looking to reduce their energy cost, but were concerned about a large solar installation changing the look and charm of their home, and fire safety.

Solution

Their installer, Polar Solar suggested long strings of high efficiency Sunpreme Smart Bifacial modules and the Tigo Flex MLPE to meet the customers' needs. The owner also wanted Tigo's fire safety feature, which exceeds rapid shutdown industry requirements, allowing for module level deactivation in seconds in case of fire hazard.

The Tigo Flex architecture enabled this installation to maximize the kWh production with the smallest installation footprint possible.

Polar Solar Installed 31 Tigo TS4-L covers on 310W Smart Bifacial Modules (GxB310 Smart Modules are double glass frameless with great aesthetics), making this installation very efficient while respecting the homeowner's wish to keep aesthetics of the roof.

Performance from this residential solar installation reflects robust output -- thanks to Polar Solar System design with Sunpreme Bifacial Smart Modules, and Tigo Flex MLPE architecture. The solar system continues to produce over 12% more energy (kWh) than a traditional solar system.

Over time, because all systems degrade, the magnitude of optimization will become more visible, mitigating shade on the panel level, which was proven to add another 30% energy recovery.

