SunPeak Technology

SunPeak engineers each photovoltaic (PV) system to suit specific project needs by integrating its advanced system architecture with world’s best-in-class component technologies. By leveraging international experience and global partnerships, SunPeak is capable of delivering a system that optimizes your return on investment and provides decades of hassle-free energy from the sun.

DeltaWing: SunPeak’s Exclusive East-West Mounting System

The vast majority of systems in the United States are “south-facing,” which means they are oriented due south. SunPeak offers a different approach, which is incorporated into its exclusive DeltaWing™ mounting system.
DeltaWing features an “east-west” module orientation. Half the modules face due west and the other half face due east. This configuration will likely become the new standard in solar PV within the USA with time, and has already become mainstream in more developed markets in Europe.

The system has many advantages:

**No Module Self-Shading.** South-facing systems require significant dead space between rows of modules, to reduce what is called “self-shading.” Their “saw tooth” design causes the modules to shade themselves. In contrast, DeltaWing’s low profile and unique arrangement avoid self-shading.
Higher Energy Production Density. More compact module placement results in higher energy density per square foot of rooftop area. This is especially valuable when rooftops are small, or when expansion plans require preservation of precious rooftop space. SunPeak’s system allows for up to 30% more energy production yield per square foot.

More Consistent Power Output. DeltaWing provides more stable and more consistent power throughout the day relative to south facing designs. It reduces the peak production spike at noon and widens the power duration into the morning and evening. DeltaWing “powers up” earlier in the morning because half the system faces east. In the evening, the same effect happens to the west.
**More Aerodynamic.** Using only a 15° tilt angle (relative to horizontal) and a delta shape, wind blows over the DeltaWing modules with little drag. In contrast, south-facing systems act as a large “air scoop,” making them much more vulnerable to northerly winds.

**Lower Roof Loading Pressure.** Less air resistance means less required ballast weight to hold the system in place on the rooftop, which reduces roof loading. This allows DeltaWing to be installed on less structurally robust roofs and preserves roof loading capacity for other projects in the future. It reduces the strain on the roof from both wind and weight.
**Aesthetically Pleasing.** When viewed from the roof, DeltaWing has a futuristic design. From the ground, DeltaWing’s low profile is often not visible.

**Higher Reliability.** All of the above factors lead to a more reliable system. Less maintenance means more power and better return on investment. Out of sight, and out of mind.