

## About Advent Solar

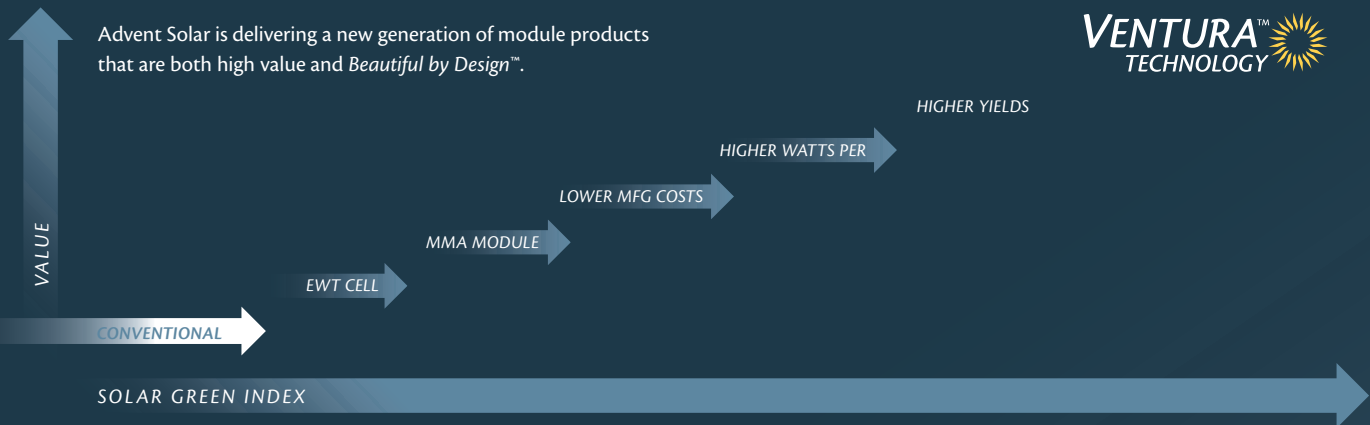
Advent Solar is the leading designer and manufacturer of silicon-based photovoltaic (PV) solar cells and modules. Our leading-edge Advent Solar® Ventura™ Technology provides the blueprint for high-performance solar modules that deliver the industry's best value for silicon PV modules. Advent Solar solutions offer the industry's only comprehensive cell-to-module architectural approach that is scalable to silicon types and amenable to highly automated semiconductor-like manufacturing. Advent Solar's unique approach enables higher value at many levels, to shift solar from an "alternative" to a mainstream energy source.

At Advent Solar, our mission is to deliver the best valued silicon photovoltaic (PV) cells and modules. With patented, advanced technologies we develop industry leading products that are *Beautiful by Design™*, delivering higher value and changing the rules for grid parity economics. Based in Albuquerque, New Mexico, USA, Advent Solar is a privately held, venture capital backed company accelerating solar performance and significantly improving the momentum towards grid parity economics.

## About Advent Solar® Ventura™ Technology



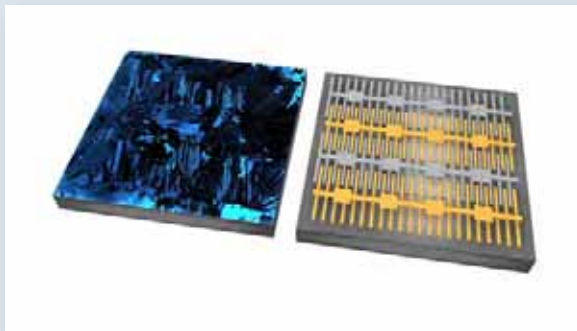
Advent Solar is delivering a new generation of module products that are both high value and *Beautiful by Design™*.



**The Opportunity** | For conventional silicon based photovoltaic (PV) architectures, efficiency improvements are becoming increasingly difficult to attain. Based almost entirely on cell efficiency, conventional PV modules have not maintained the pace of innovation to address the \$ per watt challenge facing the industry today. Gains in cell efficiency are negated by losses at the module level due to architectural limitations and cumbersome manufacturing processes. Therefore, conventional PV manufacturing is approaching a gridlock, where module level improvements are becoming marginal. Meanwhile, market demands for PV modules have become more stringent in terms of output energy, quality and reliability.

**The Solution** | Only technologies that break free from conventional thinking can hope to move past these limiting paradigms and move solar technology towards viable grid parity solutions. Advent Solar® Ventura™ Technology is just such a solution. Ventura Technology serves as a new blueprint for next generation of solar solutions.

Advent Solar® Ventura™ Technology combines the unique Emitter-Wrap Through (EWT) back-contact cell with Monolithic Module Assembly (MMA), delivering the solar industry's only comprehensive cell-to-module solar architecture. The Ventura architecture is versatile enough to accommodate different silicon types: Multi-crystalline, mono-crystalline and Upgraded Metallurgical Silicon (UMG), and is scalable in scope to increase value with unique system-level features.

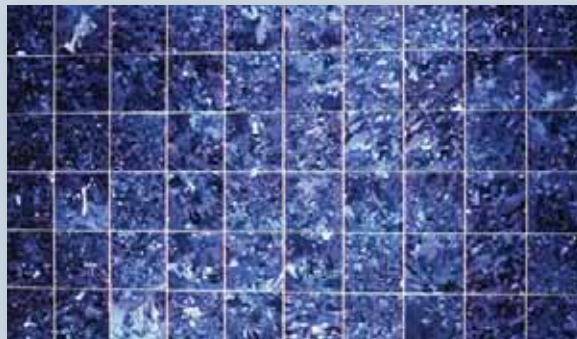


**Better Cells** | Ventura™ Technology Emitter Wrap Through (EWT) is a breakthrough cell design developed by the Advent Solar technical team of solar pioneers and Sandia Laboratories. Going to back-contact cell architecture is a fundamental and essential step towards achieving high performance solar architecture. The Ventura EWT cell technology uniquely enables an efficient planar module manufacturing process that is highly automated and reliable.

*Higher conversion efficiency due to elimination of front grid obscuration*

*Better aesthetics due to eradication of unsightly grid lines and closer cell packing on module*

*More flexible contacting geometry for improved cell and module optimization*



**Better Modules** | Using proven semiconductor-style manufacturing techniques, Ventura™ Monolithic Module Assembly (MMA) technology enables fully automated module assembly for the first time, delivering scalable high volume module manufacturing capabilities. MMA also allows EWT cells to be used in an optimal way by vastly improving interconnectivity within cells and at the module level.

*Maximized output power with minimal interconnection resistive losses*

*Precision cell placement with tighter packing on module (more watts/area)*

*A highly automated, planar module assembly process*



**Better Manufacturing** | Ventura™ Technology is the best blueprint for designing and manufacturing industry-leading silicon PV solar modules. The blueprint incorporates a comprehensive, system level architecture that preserves high efficiency at all points of the manufacturing chain. In addition, it provides scalability across silicon types and wafer thickness levels.

*Lower cell processing and interconnect costs than other back contact technologies*

*Faster production due to pre-fabricated back-sheet with automated "pick and place" of cells*

*Best quality and reliability due to superior yield control and precision manufacturing - elimination of breakage, rework and spec deviations*

*Better production throughput due to planar module assembly process, delivering more capacity per factory footprint area*