

Advent Solar Fact Sheet

COMPANY OVERVIEW

Advent Solar is a leading innovator of next generation silicon-based solar technology. The Company focuses on delivering intellectual property (IP) for intelligent, high-energy silicon photovoltaic (PV) solutions. With patented, advanced technologies, Advent Solar enables higher value products that are *Beautiful by Design™*, changing the rules for smart grid economics.

With its industry leading Advent Solar® Ventura™ Technology, Advent Solar 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.

MISSION

Advent Solar is focused on delivering IP and services to enable higher valued solar cell and module products, providing significant advantages over conventional technologies.

HISTORY

In 1999, scientists at Sandia National Laboratories, including Advent Solar Chief Scientist and Founder James Gee, patented Emitter Wrap Through (EWT) and Monolithic Module Assembly (MMA) technologies. The EWT cell eliminates grid obstruction for higher efficiencies while providing a highly flexible back-contact cell geometry. MMA provides a higher performance module that is compatible with thin cells and uses lower cost planar processing technologies. Advent Solar was founded in 2002, and it secured an exclusive license from Sandia National Laboratories in 2003 to commercialize EWT technology.

LEADERSHIP

Advent Solar's executive management team has more than 250 years of combined experience in the solar and semiconductor industries. The team includes:

- Peter Green, President and Chief Executive Officer
- Dick Trueblood, Chief Financial Officer
- Martin Hermann, Chief Strategy Officer
- Naresh Baliga, Vice President, Strategic Marketing
- Fares Bagh, Vice President, Engineering and Technology
- James Gee, Founder and Chief Scientist



FUNDING	Advent Solar is a privately-held company, which has raised approximately \$118M USD to date in venture funding. Its investors include @Ventures, Battery Ventures, EnerTech Capital, Firelake Capital, Globespan Capital Partners, New Mexico Co-Investment Partners, Sun Mountain Capital, and ZBI Ventures.	
LOCATION	Advent Solar is based in Albuquerque, New Mexico, U.S.A. Its corporate headquarters received Leadership in Energy and Environmental Design (LEED) certification in 2008, demonstrating the Company's commitment to strategies for sustainable site development, water savings, energy efficiency, materials selection, and indoor environmental quality.	
VENTURA SOLAR TECHNOLOGY	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. Ventura cell technology maximizes light capture efficiency with the patented EWT back contact approach. Furthermore, it achieves the optimal balance between efficiency and cost – maximizing module energy output with minimal interconnect resistance, while using thinner silicon wafers to reduce cost. Ventura Solar Technology architecture is versatile enough to accommodate different silicon types, such as multi-crystalline, mono-crystalline and upgraded metallurgical silicon (UMG), and scalable in scope to increase value with system-level features.	
SOLAR GREEN INDEX	Advent Solar has developed the Solar Green Index, a measurable benchmark for assessing the efficiency and value of silicon PV architectures from a system perspective. The index provides a ratio of module efficiency to cell efficiency – the higher the index, the better the delivered value.	
PATENTS	Advent Solar has an extensive international patent portfolio, including several key patents on EWT and MMA technologies. Some of the patents are exclusive licenses from Sandia National Laboratories, where Advent Solar's technical team conducted pioneering work on EWT and MMA. Additionally, Advent Solar has several patents granted in the area of back contact solar cell methods and fabrication.	
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