About Solar Systems

Solar Systems is a clean energy technology company that designs, manufactures and installs large scale concentrated photovoltaic solar power plants using dense array converter technology.

Our technology is cost effective, scalable, modular and upgradable – providing world-leading solar power plant efficiency and innovative internationally patented technology.

With our business development headquarters in Dallas, Texas U.S.A. and our manufacturing and research headquarters in Melbourne, Australia, Solar Systems is ideally positioned to provide zero emissions solar power in a rapidly changing global energy market.

Solar Systems provides turnkey power plants and dense array CPV equipment to developers and utilities.

Solar Systems has been built on a belief and commitment to the potential of CPV and its ability to deliver solar energy more efficiently than any other technology.

Our innovative, patented technology and experience gives us the commercial and technical foundations to deliver utility-scale solutions on a global basis.

Today's world is demanding that we change the way we generate our power, and Solar Systems is the partner of choice to deliver the world's most abundant resource – solar energy.

Dave Holland – Chief Executive Officer

Solar Systems Long Company History and Track Record

With over 100 dish-years of experience across five operational power plants, Solar Systems has the proven technology and experience to deliver utility-scale solar power generation today.

Solar Systems has a core belief in the importance of environmental, social and economic sustainability and we adopt a sustainable approach to solar technology design and development.

1990

Technology development

1996/1997

White Cliffs test site

2002–2006

Australian projects completed

Umuwa, Hermannsburg, Yuendumu, Lajamanu and Windorah in Central Australia. Together these five power plants generate over 1,000 kW and 2,700 MWh per year – a saving of 235,000 gallons of diesel and 2,600 tons of greenhouse emissions.

Our Mission

To be a global leader in utility scale solar energy solutions by delivering electricity at the lowest levelized cost of energy through our proprietary dense array concentrated photovoltaic systems.

Our Advantages

Our dense array packs solar cells for a system together, in contrast to the distributed approach of other CPV systems where each collector (lens) is linked to a single cell. This allows Solar Systems to achieve high system efficiency and reduce degradation. The advantages of Solar Systems dense array concentrated photovoltaic technology include:

Efficiency	"Best in Class" efficiency combined with low capital cost. Quick availability and installation.
Output maximization	Power plants have proprietary monitoring and control systems designed to maximize power output by optimizing the system for operating conditions. Cooling systems maintain cell operating temperatures at optimal levels, and tracking systems ensure maximum output during peak generation times. Unlike traditional PV systems that degrade by up to 20 percent, our cell performance is maintained with minimal degradation over the life of the power plant.
Modularity	Power plants can be commissioned in small unit sizes, which reduce development times allowing plants to go commercial earlier. Our modular product design and deployment approach enables us to economically deploy projects with varying sizes, ranging from less than 10 megawatts to more than 100 megawatts.
Upgradable	As new cell and module technology is developed existing power plants can be upgraded by replacing the receiver.
Asset management	Solar Systems' proprietary control system enables proactive system management including predicative and actual fault identification and performance monitoring, allowing the system owner to maximize investment returns.
Highly efficient land use	Watts per acre can be significantly higher than other PV systems. Our higher efficiencies mean reduced land use and environmental impact in site design.

2006

154MW Victoria project announced

Solar Systems project in northern Victoria will generate approximately 270,000 megawatt hours per annum, equivalent to the annual electricity needs of 45,000 average homes – and is expected to reduce greenhouse gas emissions by 400,000 tons per annum.

2008

Global Expansion

- New CS500 Mk V Dish commissioned.
- Contracted a 500MW production line.
- Opened the world-class solar R&D facility in Australia.
- Opened a new US office.

Solar Systems

Solar Systems Pty Ltd

UNITED STATES

8401 N. Central Expressway
Suite 225
Dallas, TX 75225

Telephone: +1 214 628 8000
Facsimile: +1 214 628 8192

AUSTRALIA

45 Grosvenor Street
Abbotsford VIC 3067

Telephone: +61 3 9413 8000
Facsimile: +61 3 9413 8500
Email: info@solarsystems.com.au

www.solarsystems.com.au

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