

Cadland Estate Solar Farm

New Forest, Hampshire, UK

Sustainable, efficient and
aesthetically attractive



"Trina Solar is one of the best manufacturers of solar panels in the world. Their panel performance is excellent and they are visionary when it comes to their growing array of products and services. Trina Solar is also committed to our delivery programme, and has good UK coverage and a strong balance sheet. We look forward to successfully working with them on our substantial solar pipeline."

Adrian Pike, Anesco CEO

Cadland is a traditional English estate and National Nature Reserve near Southampton, bordering both the Solent coast and the New Forest. The Cadland Estate's main enterprise is its crop and livestock farming, so the issue of sustainability is particularly sensitive. Given the heritage of the Estate, solar energy was deemed a suitable solution, also in terms of preserving the aesthetics of the site. As well as reducing emissions and making the Estate farm more sustainable in terms of energy consumption, solar power would create local jobs, generate energy for the region and establish long-term revenue for the Estate through the Feed-in Tariff.

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CA

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Ground-mounted PV park

A

CA AC

5.0 MWp

C

TSM-PC14 280 Wp

B

17,857

A A

4,250,000 kWh

C

June 2012

All electricity generated on the Cadland Estate will be sold back to the National Grid through the government-backed incentive scheme. Over the course of a year, the installation will generate enough electricity to cover the energy needs of 1,000 average households in the local area.

The Cadland solar farm spans over 30 acres within the estate. Trina Solar supplied 17,857 of their PC14 280 watt modules to bring the capacity up to 5MWp. The installation required nine kilometres of mounting frames and over 5,000 ground screws. The construction and installation of the solar farm created 30 local jobs. The project was completed by Anesco safely, efficiently, and in record time. Trina Solar's experience in solar farm development was pivotal to establishing their partnership with Anesco.

Trina Solar Utility Scale Module TSM-PC14

Trina Solar's PC14 modules are specifically designed to optimize the balance-of-system costs for ground-mounted arrays. The modules deliver high power outputs even in low-light conditions. Consisting of 72 individual cells, the modules require fewer mounting kits to achieve the same overall power output compared to standard 60-cell multicrystalline modules. Taller than usual ground-mounted modules, PC14 panels deliver more power per square metre of land coverage. The Trina Solar PC14 modules therefore make large solar farm projects extremely cost-efficient.