Trinasolar
Smart Energy Together

Homeland Solar Farm

Dorset, UK

Ground-mounted PV project designed to protect biodiversity

13.21MW	14GWh	51,810	Ground-Mounted
System	Annual production	modules	System

"The Homeland Solar Farm is a prime example of how solar PV installations can support biodiversity schemes, not hinder them. This project was developed with the local community and wildlife in mind, and is one we are very proud to have been part of."
Ben Hill, President Trina Solar Europe and Africa

Dorset enjoys more sunshine than almost any other location in England, making the location ideal for the production of solar energy. It was this fine climate that factored heavily in the decision to build a large solar farm at Homeland Farm in Three Legged Cross, Dorset. The site also has a soil base of sand and gravel, and is classed as Grade 4 Agricultural Land, making it optimal for non-agricultural activity, such as solar.

The Homeland Solar Farm is a 13.2MW installation, which, using 52,000 Trina Solar TSM-PC05A 255-watt multicrystalline panels, will produce enough clean solar electricity to power 4,300 homes in the local area for the next 25 years.

Working with the farm's owners, in conjunction with the local community, Good Energy submitted a proposal

Homeland Solar Farm

LOCATION
Dorset, UK

SYSTEM TYPE
Ground-Mounted

SYSTEM SIZE
13.21MW

PRODUCT
TSM-PC05A

NUMBER OF MODULES
51,810

ANNUAL ENERGY OUTPUT
14 GWh

COMPLETION DATE
March 2014

for the solar plant to East Dorset Council in October 2013. Once planning permission had been granted, Trina Solar purchased the project, saw it through to completion, maintained it and after some time sold it. Construction started in December 2013, and the farm was connected to the grid in March 2014.

This project is firmly anchored in the local community and Trina Solar was committed to implementing a range of measures designed to encourage biodiversity. Therefore the Company put in place a proper landscape and ecological management plan to protect retained habitats surrounding the site from damage and unnecessary disturbance during construction.

The development ensured that there were no adverse effects upon the trees, hedgerows, scrub, ditches, watercourses and field margins adjacent to the development area. The site comprised suitable habitat for nesting birds, amphibians, reptiles, otters, water voles and dormice. To ensure protected species are adequately protected during construction, appropriate precautions were taken, notably through the prepared Toolbox Talks, to ensure adverse effects and offences are avoided.

In addition, the panels have been installed at a sufficient height to allow for sheep grazing, so that the farm can maintain soil integrity.

Trina Solar TSM-PC05A
The Honey Series

Trina Solar's polycrystalline Honey module delivers an industry-leading maximum efficiency of 15.9 per cent, with a maximum power output of 260W. It retains high performance in low-irradiance conditions, such as cloudy days and mornings and evenings, making it ideal for rooftop installations of all orientations and ensuring that end users get the most from their investment. It outstrips the industry standard requirements for snow and wind loads.