



Wymeswold Airfield

Leicestershire, UK

- 15% more energy output than expected
- 32.2MW system + 2,2MW added in 2014

34.4^{MW}

System

32,74^{MWh}

Annual energy

140,000

modules

**Ground-
Mounted**

System

"The panels from Trina Solar surpassed all expectations so, when the opportunity arose to extend the solar farm, we had no hesitation in commissioning them to supply the additional 2.2MW. As industry leaders in the solar market, we were confident that Trina Solar could support us in moving the Wymeswold plant forward"

Richard Green, Head of Lark Energy Services

Set over 150 acres of land, Wymeswold is a former RAF Airfield near Loughborough in Leicestershire, UK. Having been decommissioned by the Air Force several decades ago, the site now has a mixture of agricultural, leisure and sporting uses, hosting an HGV training centre and a kite club – among other things. With a mind to improving the site's energy efficiency and optimizing the space, Wymeswold's owners contracted S.A.G. Solarstrom AG to design and build a ground-mounted solar PV array that would plug into the utility grid.

S.A.G. Solarstrom AG turned to Trina Solar to supply more than 132,000 units of its TSM-PC05 module. The



multicrystalline modules were installed in just three months, and the array was connected to the grid in March 2013, rendering the project eligible for full support under the Renewables Obligation Certificates (ROC) scheme, qualifying for 2ROCs. The output is around 30,650MWh, which is enough to power 8,000 households.

The fully operational plant was acquired by Foresight Solar Fund Limited in November 2013, the first plant acquired by the company, and in the early months the plant's energy generation efficiency exceeded expectations. From November 2013 to January 2014, the farm generated 15 per cent more power than was initially predicted, despite inclement weather experienced during this period, owing to the efficiency of the modules in low levels of light. Importantly, none of the other businesses operating at the site have been negatively impacted, demonstrating how solar PV can be seamlessly integrated into an existing ecosystem.

In 2014, Trina Solar were commissioned by the plant's O&M Contractor - solar energy specialist Lark Energy to install an additional 2.2MW to the site, to bring the generation capacity up to 34.4MW.

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 bears snow loads of up to 5,400Pa and wind loads of up to 2,400Pa. As with the entire Trina Solar module range, the PC05A Honey module comes with a 10-year workmanship warranty and a 25-year linear power output warranty.

Wymeswold Airfield UK's largest utility PV plant

LOCATION
Leicestershire, UK

SYSTEM TYPE
Ground-Mounted

SYSTEM SIZE
34.4MW

PRODUCT
TSM-PC05

NUMBER OF MODULES
140,000

ANNUAL ENERGY OUTPUT
32,740MWh

COMPLETION DATE
March 2013