



Prescot Waste Water Treatment Works

Equans installed a ground mounted solar PV system for United Utilities

Equans installed a new £2.5m PV solution at Prescot Waste Water Treatment Works for United Utilities. The scheme began in November 2015 and as producers of large amounts of energy, and Equans worked closely with UU to ensure they received the best solar energy solution for their needs.

Working with United Utilities, Equans installed a ground mounted 2.6 mW system, equating to a huge 10196 modules at 255w.

The site now hosts a PV array on the top of a covered drinking water reservoir, which at the time, was a first for the Equans team.

From the outset, the project was governed by weight restrictions, due to the scheme being on top of the reservoir roof.

Lightweight solutions were quickly found and the transportation of materials across the site was carried out by 6-wheeled all-terrain lightweight vehicles with trailers to mindfully spread weight distribution.

To allow for the connection of approx. 2.5MWp of Solar PV installation at Prescot we needed an HV connection, the site had an existing HV 11KV ring installed on their own private network. Following a detailed survey and design process we extended the existing HV cables of this ring to allow for the installation of a new RMU for the Solar.

We located the new solar RMU within a GRP housing with heating, lighting and incorporated it into the existing SCADA system, as well as installing all necessary protection and earthing. Via a Transformer the Solar PV installation was connected to the HV ring.

The £2.5m scheme, which took 12 weeks to carry out, equates to 8.99 acres and is bordered by Knowsley Safari Park.

