



Fleetwood Waste Water Treatment Works: Roof-Mounted Solar PV

Equans installed a roof-mounted solar PV on the roofs of a number of buildings at Fleetwood Waste Water Treatment Works.

The scheme had to be thoroughly surveyed and planned out before installation could commence, with the 1,320kW array needing to be installed with minimal disruption to the day-to-day works.

Working with the team from site owners United Utilities, Equans staff identified four suitable buildings to install the photovoltaic panels: the SBC Building, STOC Building, Final Treatment works and the Inlet Works/ Visitors Centre.

The buildings were identified following a comprehensive survey of the site to determine the best locations for the panels. This included using a fisheye camera to gather the most accurate shade analysis and sun path information to feed into the design - built on AutoCAD - that would produce the maximum potential from the systems provided.

With the Water Treatment Works remaining operational whilst the project was on-going, a robust site safety plan was produced so as not to cause hazards or issues during the process. Elements factored into the plan included high-level working, working on curved roofs and working within an operational site.

One element of this, which United Utilities complemented Equans on, was the traffic management plan. This included the use of regular road sweeping to ensure access roads across the site were kept clear and operational.

The £1.4million scheme was installed in compliance with United Utilities' standard specification S03 - Mechanical Engineering, and also complied with the Micro-generation Certification Scheme.

The array has allowed the company to better meet its renewable energy goals.

