

Land Drainage

Flood Defense Norfolk, United Kingdom

How we created value

- Ovivo has supplied the bar screening and raking systems protecting the UK's largest pumping station.
- Effective cleaning of debris at the UK's largest pumping station is achieved by just two Ovivo Bosker Trashrakes.
- Automatic raking is complemented by effective disposal of debris to skips.



Brief

The Middle Level Commissioners of Cambridgeshire and Norfolk are responsible for the effective drainage of large areas of the fenlands. They attach the utmost importance on long-term reliability and high efficiency for the new pumping station at St Germans, which is vital for protecting a vast area of valuable land and properties from flooding.

Solution

Ovivo worked closely with Atkins Global in the specification and design of the screening requirement for the UK's largest pumping station. The St Germans Pumping Station is the largest of its kind including 26000 properties in the UK, protecting 700km² of land in the Cambridgeshire and Norfolk Fens from flooding. It has six concrete volute pumps delivering a total capacity of 100m³/sec to a static head of 4.25m.

Ovivo is supplying two Brackett Bosker[®] HD1000 trashrakes which will operate on a common 98-meter long monorail track. They clean the 63-meter wide coarse bar screen, which protects the pumping system and is also supplied by Ovivo. Collected debris is deposited into skips on either side of the water intake.

Outcome

The build-up of debris against the coarse screen would impede the effective operation of St Germans and cause potential widespread disruption in one of the UK's most valuable agricultural areas. Ovivo's Brackett Bosker trashrake system offers essential protection, automatically and effectively clearing debris to awaiting skips from where it can be disposed.

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