

First Multiphase Pump Installations in United Kingdom

Bornemann delivered the first two Multiphase Pump Systems to the United Kingdom in 2003 and commissioned them in 2004. Both applications are onshore installations for the second largest onshore oil producer.



Figure 1 Locations

The first location of a Bornemann Multiphase System is the Welton B Site, one oilfield in the East Midlands. There the Crude oil is pumped from the wells using traditional beam pumping units. The production from the wells is concentrated at the Welton Gathering Centre, where the naturally occurring mix of oil, gas and water is separated.

The Bornemann Multiphase Pump System is used to boost oil, gas and water from the wells to the Gathering centre 4 km away.

The installed Multiphase Pump System reduces the back pressure at the wells. Consequently this increases the production by 20 – 30% and extends the field life and the quantity of oil recovered tremendously.

The second project is located in South England. The application uses gas from a separator as fuel gas for turbines. The gas turbines require a supply pressure of 20 barg, which is the best working pressure for the power generation. The field has a natural pressure of 8 bar.



Figure 2 Multiphase Pump System

With the installation of a Bornemann Multiphase Pump System they are boosting the whole flow upstream of the separator from 8 to 20 barg.

We installed a system with the integration of all necessary safety features. The Multiphase Pump Systems are following the European CE standards.



Figure 3 Pump System, Storrington

Technical Data Storrington

Pump	MW
Capacity	380 m ³ /h
Installed Power	220 kW
Differential Pressure	20 bar
GVF	98 %

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