

Case Study

Renewable Energy Power Unit

Customer Requirements

A hydraulic power unit and control panel, with 2 pack epoxy coating for corrosion resistance, reliable and efficient and to be delivered in 5 working weeks

MGR Solution



We designed and built a power unit in five working weeks that included a 20 litre accumulator for storage, an electrical starter with the capability for remote starting from a PLC. The power unit was coated in 2 pack epoxy to prevent corrosion. Components were selected to ensure reliability when using biodegradable oil.

To save energy the system was designed so that the motor switch off when the accumulator was full. The motor only started when the pressure had fallen , signalled by a pressure switch, thus saving energy over a continuously running system.

Full operation and maintenance manuals were supplied.

Customer Benefits

- Energy saving with low power usage through pump being shut down when not required
- Supply of complete power pack and electrical control, giving the customer one order to place, simplifying the supply chain
- Delivery to time, supplied when the customer needed it, with all the information and certification
- Reliable, the system was designed by experienced hydraulic engineers, whose design and product selection ensures premium reliability
- Protected from the elements