

# Project case study



Customer Name  
**National Trust  
Dyffryn House**

Contract  
**External building  
decorations and  
repairs and  
groundworks**

## Project features

- Electrical installation works into pump room and replacement distribution boards in the main house
- Overcoming challenges of restricted access to the buildings
- Extensive electrical works in damp/wet environments



## Contract details

The National Trust is a charity which was founded in 1895 by three people who saw the importance of our nation's heritage and open spaces, and wanted to protect them for everyone to enjoy. They look after special places throughout England, Wales and Northern Ireland for ever, for everyone, including coastline, forests, woods, fens, beaches, farmland, moorland, islands, archaeological remains, nature reserves, villages, historic houses, gardens, mills and pubs.

Ian Williams were contracted to provide a whole new electrical installation into an old, disused pump room and to provide power for new water pumps to the large fountains in the grounds of Dyffryn House. The works required new distribution boards into the pump room, full fitting out of the pump room and steel conduit for lighting and power and controls for the pumps. The remote location of the pump room with restricted vehicular access meant careful planning to ensure the right tools and equipment were on-site to enable efficiency.

All equipment provided was IP65 (Ingress Protection) rated to provide protection against the damp conditions.

We were also contracted to replace the old mains boards in the main house kitchen block to new standard equipment. Dyffryn House is a grand Victorian mansion and suffers from damp conditions. We used our expertise to ensure all electrical works were completed safely and overcame testing issues because of the damp conditions present in the building.

Although the works were in a part of the building that were not open to the public, some of the work was performed out of hours because the electrical supply fed areas of the building that were open to the public.

We have also designed a Fire Alarm system for the House to bring it up to BS5839 L1 standard.

All works were performed by two experienced approved Electrician and full NICEIC certificates for the pump room and the house issued at the end of project, including test values to show BS7671 compliance.

## Advantages/benefits

- Knowledge and expertise of dealing with old or listed properties and their special needs
- Flexibility around timing of the works to minimise disruption
- Qualified Electricians able to carry out the works and issue NICEIC certificates