

Description

- ◆ Emperor House is a three-storey, fully serviced 22,500 sq ft building featuring a highly insulated cladding system, LED lighting and a roof top solar installation with a capacity of 128kW
- ◆ An EPC A+ rated office building located in Exeter Business Park, one of the city's vibrant business hubs. For a building to achieve an EPC A+ rating it must have the best insulation, be energy efficient and produce clean energy which will be consumed on site.



Involvement

- ◆ Delivered the detailed mechanical and electrical services engineering design in compliance with the relevant British Standards and all associated end user requirements
- ◆ Undertook full services infrastructure design, including load assessments for new building supplies (water, gas and electricity) and all associated co-ordination with the utility infrastructure providers and the design team
- ◆ Developed the standby power requirements with the building end-user and subsequently designed the electrical infrastructure such that full system resilience was provided via an adequately sized standby diesel generator
- ◆ Undertook a dynamic simulation study of the building to determine if its design met the requirements of AD Part L of the Building Regulations using an advanced environmental modelling tool.

Benefits Delivered

- ◆ The building benefits from a resilient data and electrical supply meaning the office can continue operating in a power cut. The Emperor House solar installation alone will generate more than 120,000kWh of electricity, sufficient clean energy to power the equivalent of 40 homes and save 57 tonnes of CO² each year.

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