



DEMONSTRATE · DISSEMINATE · REPLICATE

MANCHESTER LIGHTHOUSE CITY ENERGY

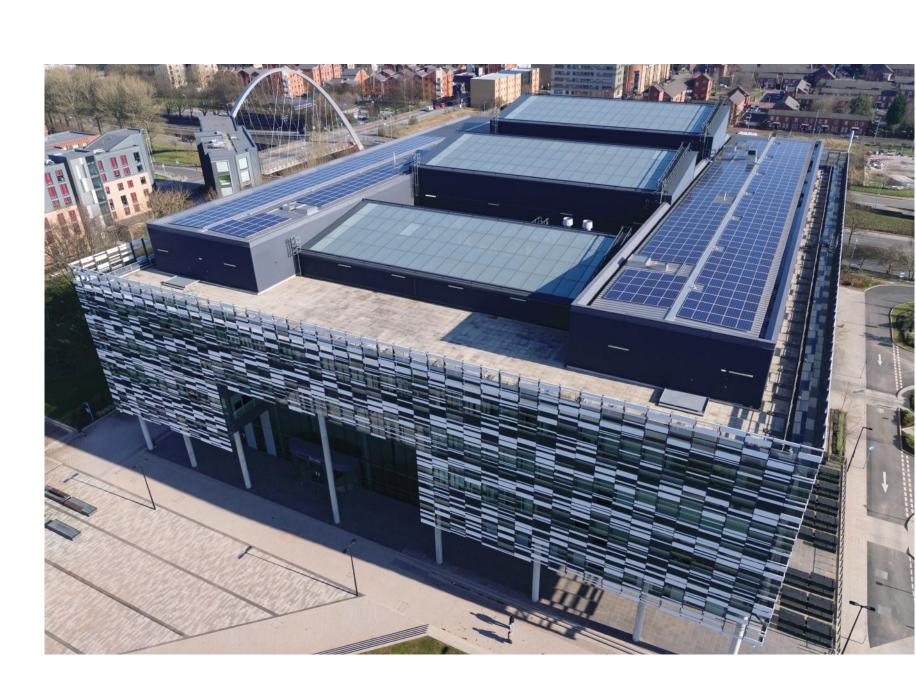












Manchester Metropolitan University Credits: Manchester City Council



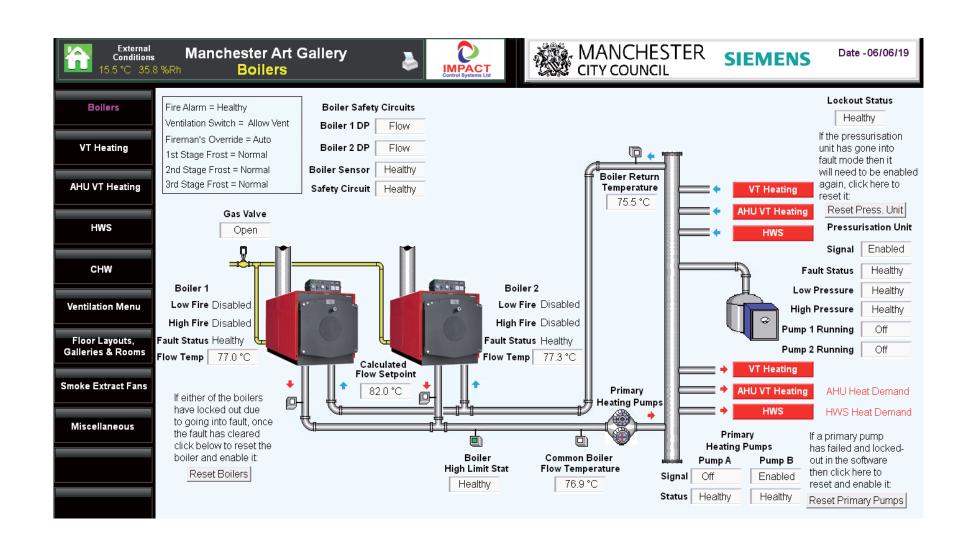
Manchester Metropolitan University Credits: Manchester City Council

Microgrid, Electrical Energy Storage and Solar Photovoltaic Panels at Manchester Metropolitan University

- An innovative energy generation, storage and management system has been installed at the University's Birley Campus.
- Photovoltaic panels (157 KWp) and an electrical energy storage solution (480 kWh) are managed by a microgrid controller.
- The photovoltaic panels generate additional energy. The energy storage system reduces the need to purchase electricity at peak cost.
- The microgrid controller targets carbon or financial benefits depending on priorities. The system can use energy from the grid when costs are low or from the battery storage when high.
- An innovative central controller works alongside the microgrid controller to form a virtual power plant across the Oxford Road Corridor, working with buildings from Manchester City Council and the University of Manchester.



Manchester Art Gallery
Credits: Manchester City Council



Manchester Art Gallery Building Energy
Management System
Credits: Manchester City Council

Building Energy Management at Manchester Art Gallery

- A new Building Energy Management System (BEMS) has been installed in the historic city art gallery.
- The BEMS manages equipment supporting the internal environmental parameters for the exhibition and operational spaces.
- The system controls and monitors temperature, relative humidity and indoor air quality.
- The system parameters were designed in close consultation with the art gallery team to ensure optimum conditions are maintained for artefacts whilst maximising energy efficiency.

Website

www.triangulum-project.eu



























































