

Peel Utilities

Sustainable Energy Solutions at Media City:UK

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‘Energy solutions at Media City UK
which provide for a
sustainable environment in the local
community’



What Are The Energy Solutions at MediaCity:UK?



The Centralised Energy Centre (Tri-Gen)

- 2 x 9MW Boilers
- 1 x 2MW CHP Plant
- District Heating Network
- 1 x 1.5MW Absorption Chiller
- Canal cooling system
- Chilled Water Network

Which Buildings Are Provided With Which Energy Solutions?



Tri-Gen Systems and Services

- Medium Temperature Hot Water (MTHW) is provided to a number of buildings as fed off the district heating main:-
 - BBC buildings;
 - Studio Complex;
 - B4 Orange building;
 - The Heart apartments;
 - Number One apartments;
 - Booths Supermarket
- Electricity is provided to a number of buildings as fed off 'private wire':-
 - Studio Complex;
 - B4 Orange building;
 - Multi-Storey Car Park;
 - Public Realm;
 - Booths Supermarket.

Which Buildings Are Provided With Which Energy Solutions?



Tri-Gen Systems and Services

- Chilled water (CHW) is provided to Studio Complex and Booths Supermarket as fed off the chilled water system.

How Do The Solutions Facilitate a Low Carbon Environment?



- 2MW of local generation backing off local demand.
- Manchester Ship Canal providing a sustainable source of cooling.
- Heat from the CHP plant used to run the Absorption Chiller in the summer months.
- Centralised Energy Centre means there is no requirement for within building boiler systems and extensive gas supply loads.

What Are The Next Steps?



- Review within building 'set points' to see if canal cooling facility can be used for several months a year rather than just November through to February.
- Energy Centre has been 'future proofed' through civils to enable a further 2MW CHP plant to be installed in future.
- District heating main has been installed site wide with enough legs to connect up further buildings relating to Phase 2 of development.

Any Questions?

