#### Peel Utilities

## Sustainable Energy Solutions at Media City:UK

Frank Welsh – Head of Operations



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



## What Are The Energy Solutions at MediaCity:UK?

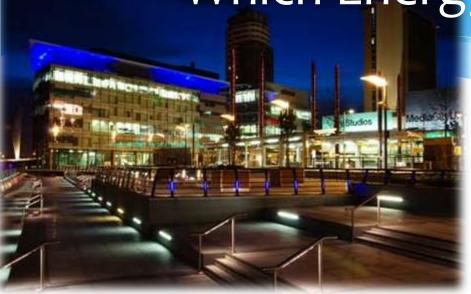




- 2 x 9MW Boilers
- 1 x 2MW CHP Plant
- District Heating Network
- 1 x 1.5MW Absorption Chiller
- Canal cooling system
- Chilled Water Network



## 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?



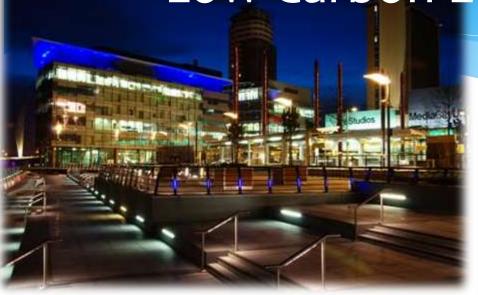
#### **Tri-Gen Systems and Services**

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



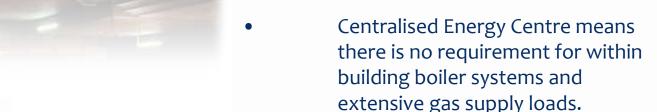


## How Do The Solutions Facilitate a Low Carbon Environment?





- Manchester Ship Canal providing a sustainable source of cooling.
- Heat from the CHP plant used to run the Absorption Chiller in the summer months.





#### 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?

