



CHP Outreach Workshops

Programme: Reducing Energy Costs with Combined Heat & Power

Manchester 12th March 2015



Manchester Town Hall Extension 2 x ENER-G 230 CHP Units





ENER-G Combined Power Limited

Osman Mushtaq: Business Development Manager







- Over 30 years of Cogeneration experience with our origins stemming from UMIST
- We use local suppliers: We have a core belief in investing in the local area and keeping our carbon footprint to a minimum
- Involvement in a number of local project, including: Radisson Edwardian Manchester, Hilton Manchester and the University of Manchester
- Manchester based on-site production/test facilities:
 - Maintain over 800 operational units in the UK
 - Largest UK CHP service team
 - Research and development
- We operate over 2500 units worldwide



ENER-G and the Project

- Listed landmarks of international significance known for exceptional craftsmanship and architectural quality
- Strategically a very important project for ENER-G to secure as a local business
- ENER-G worked with design team from an early stage to help integrate a CCHP system and add towards achieving a BREEAM Excellent rating
- One of a number of flagship projects within Manchester.





Working together in Manchester



- Manchester City Council: Client/End User
- Laing O'Rourke: The main contractor
- NG Bailey: M&E subcontractor
- **BDP Manchester:** Appointed as consultants to design the energy centre
- ENER-G Combined Power Ltd: Appointed as a local CHP supplier









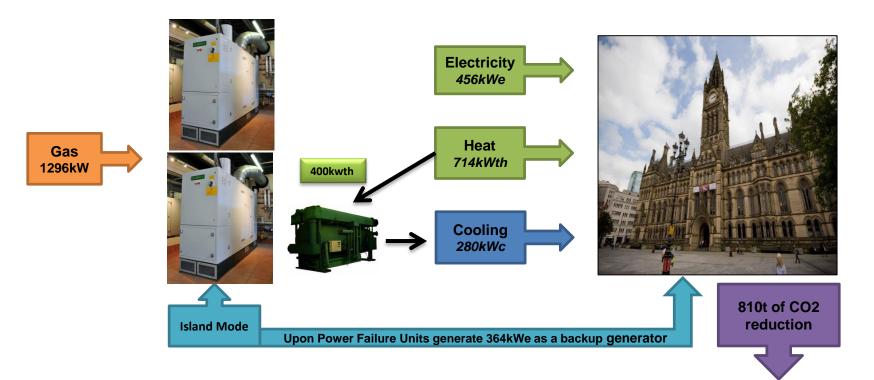




What is powering the Town Hall Extension



System Outputs







The Town Hall Extension facility has been set up with Island mode capabilities:

- Island mode also known as backup electricity generation
- Both units have the capability to detect a power failure and switch on as a back up generator
- Upon grid failure, G59 would trip and units would switch off
- Island mode operation initiates unit 1 and 2 to run up to load and synchronise
- Both units generate approx. 364kWe in island mode to be utilised for general electricity usage in an even of power failure

