

Biomass District Heating at the University of St Andrews

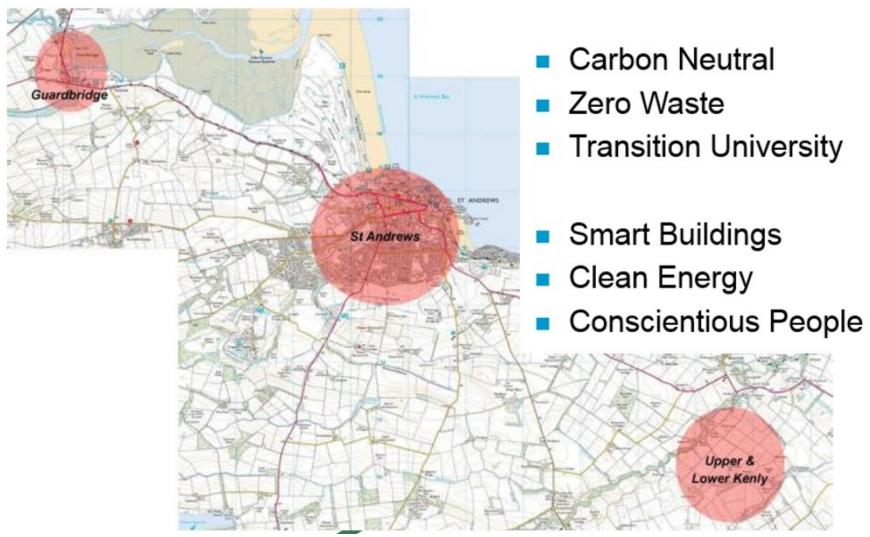
David Stutchfield, Sustainability Manager

Outline

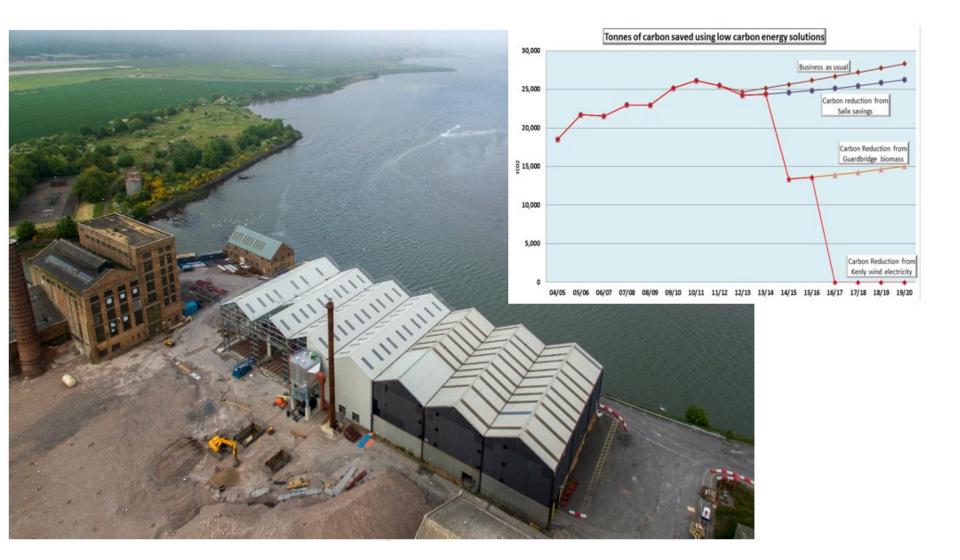
Large scale biomass district heating scheme - 6.5MW biomass boiler, 23km of pipe, connecting 41 buildings.

- 8,500 students
- 2,300 staff
- 149 Buildings

Sustainability



Carbon Reduction



Timeline Biomass Project

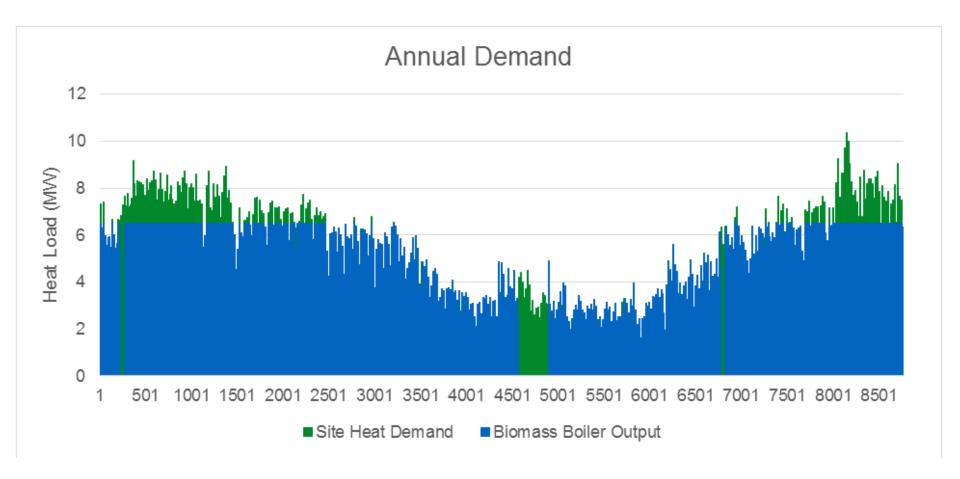
2013 OJEU tender for heat only option

2014 Contract award to Vital Energi

2015 – 17 Installation of DH















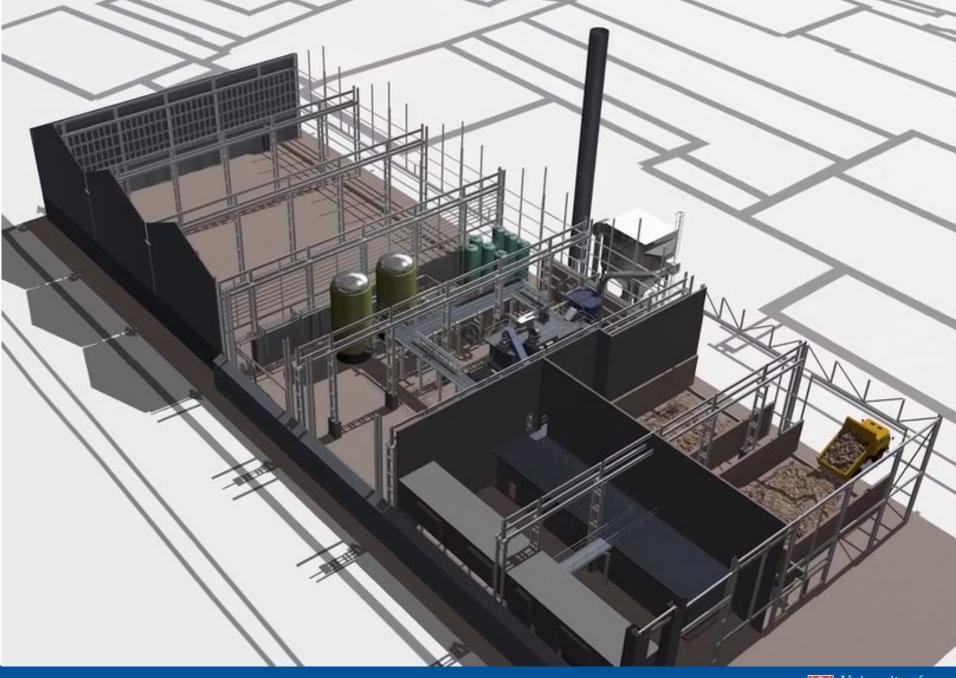
23km of district heating pipework, connecting 41 campus plant rooms

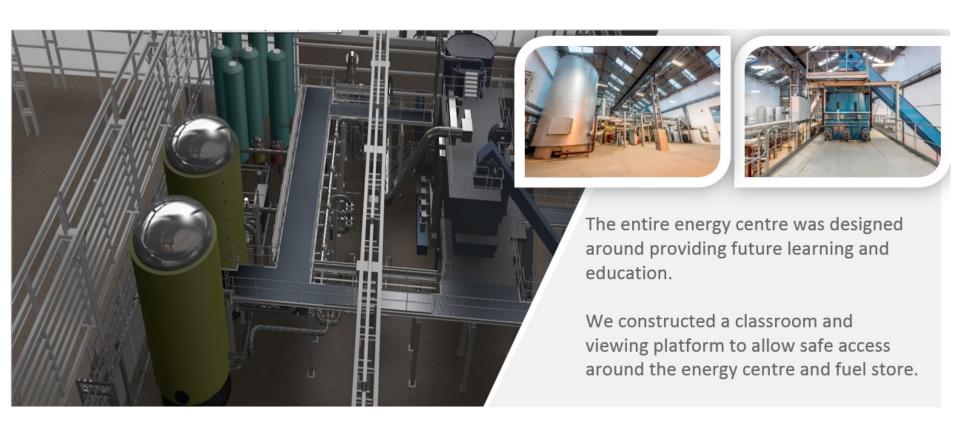






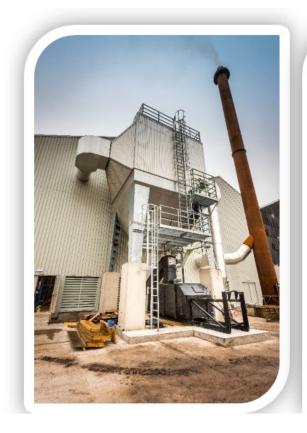
- > Re-use of existing brownfield site
- > Renovation of existing building for energy centre













- > Electrostatic precipitator
- > Reduces particulate emissions
- > Fly ash and grate ash collected separately

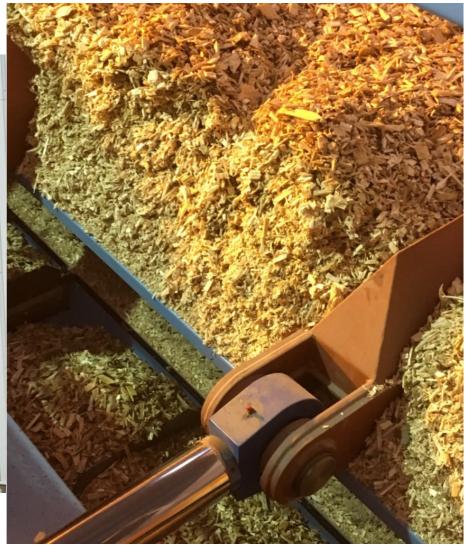


Key Factors

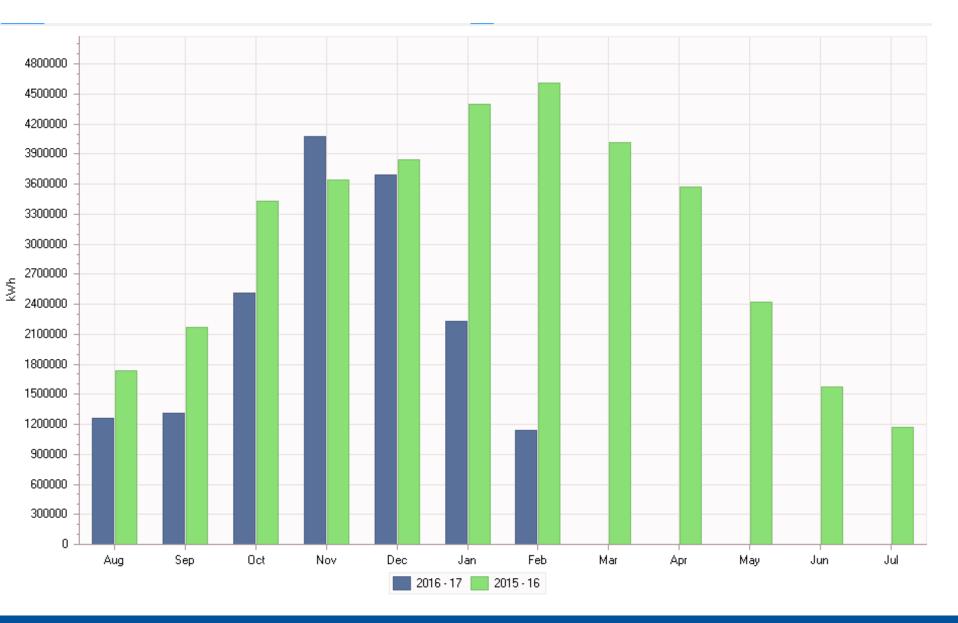
- Sheer scale one of the largest biomass boiler installations in the UK
- One of the longest DH interconnecting pipelines in the UK
- Connecting to live and operational buildings ensuring no loss of service
- Currently providing almost all heating and hot water demands for 41 buildings on the University Campus















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