

The Long Road to Carbon Neutrality



Headline Sponsor









- University of St Andrews a brief introduction
- St Andrews biomass district heating scheme





University of St Andrews – a brief introduction



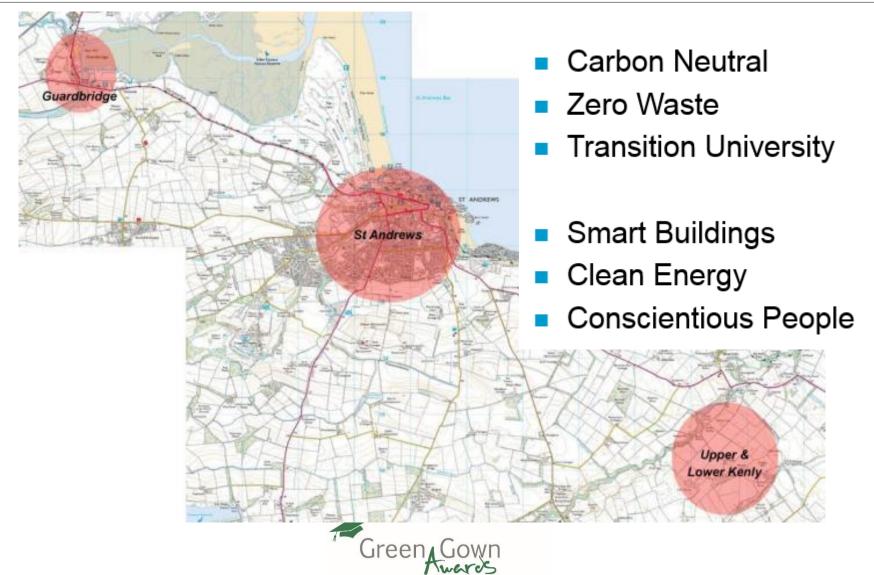
- A University since 1413
- 8,500 students FTE
- 2,300 staff
- 149 Buildings
- Gross area of all buildings is 253,000m²
- 210 acres excluding farmland
- Oldest building is St Leonard's Chapel (1413)





University of St Andrews Sustainability





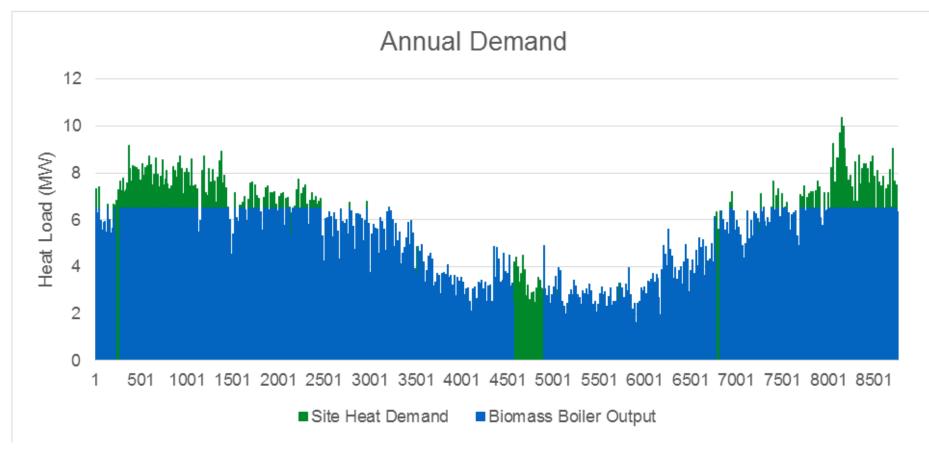
University of St Andrews Carbon Reduction





University of St Andrews Carbon Reduction Effectiveness







University of St Andrews Project Summary





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



University of St Andrews Innovation



Insulation qualities

- > 0.027 W/m K @ 50 C
- Made use of industry leading insulation products (Series 3)
- Zero ODP & GWP

Band Jointing method

- Maintains insulation quality
- > Maintains vapour barrier across joints
- > Warranty for 50 years

Pre-formed fittings

Leak Detection





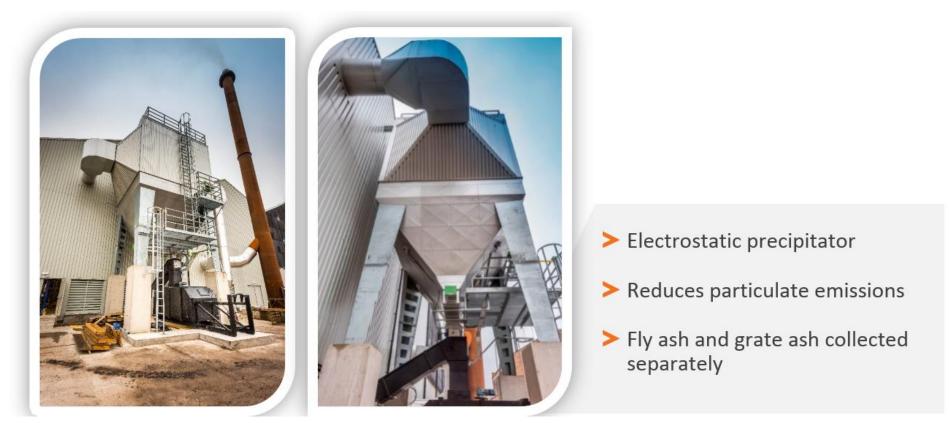
University of St Andrews Innovation

















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













Guardbridge Guarantee

Resilience

Cost certainty – bulk buy of round wood
Engagement, Engagement, Engagement!







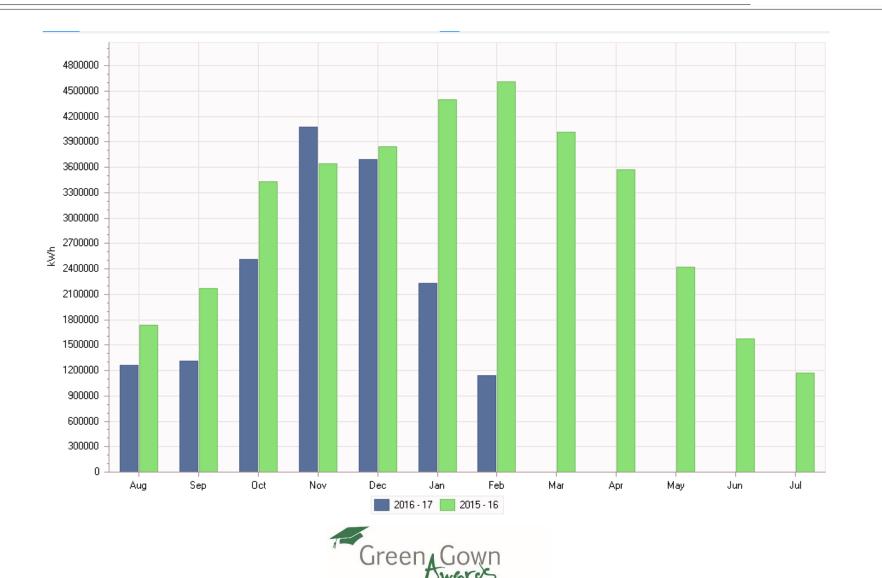


University of St Andrews Operations





University of St Andrews Gas reduction due to biomass



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AFFORDABLE AND Clean Energy

13 CLIMATE ACTION

Lancaster

21st ANNUAL CONFERENCE 28-30 MARCH 2017

GLOBAL GOALS:

University of St Andrews Staff Engagement







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13 CLIMATE ACTION

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28-30 MARCH 2017

CarbonCredential



