



University of St Andrews
Scotland's first university

| 600 YEARS |
| 1413 – 2013 |

A Carbon Neutral University by 2016

EAUC Energy TSN
Feb 2015

David Stutchfield – Energy Officer



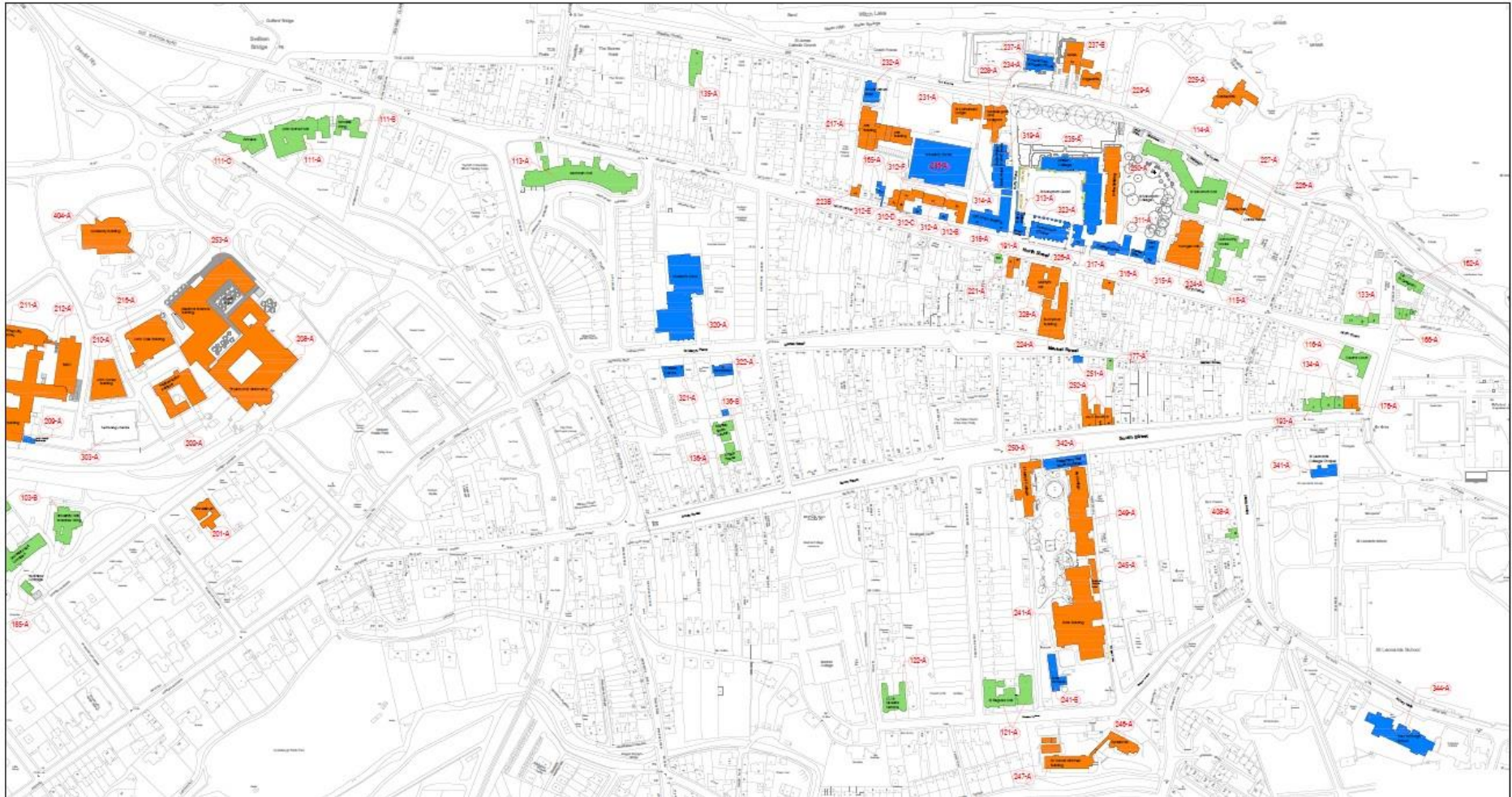
University Estate Overview

- 168 Buildings
 - Gross area of all buildings is 316,000 sq m
 - 210 acres excluding farmland
 - Oldest building is St Leonard's Chapel (1413)
-
- 8,200 students
 - 2,100 staff
-
- £2.6m/yr elec
 - £2.4m/yr gas





University Estate Overview



University of St Andrews and our vision of Sustainability

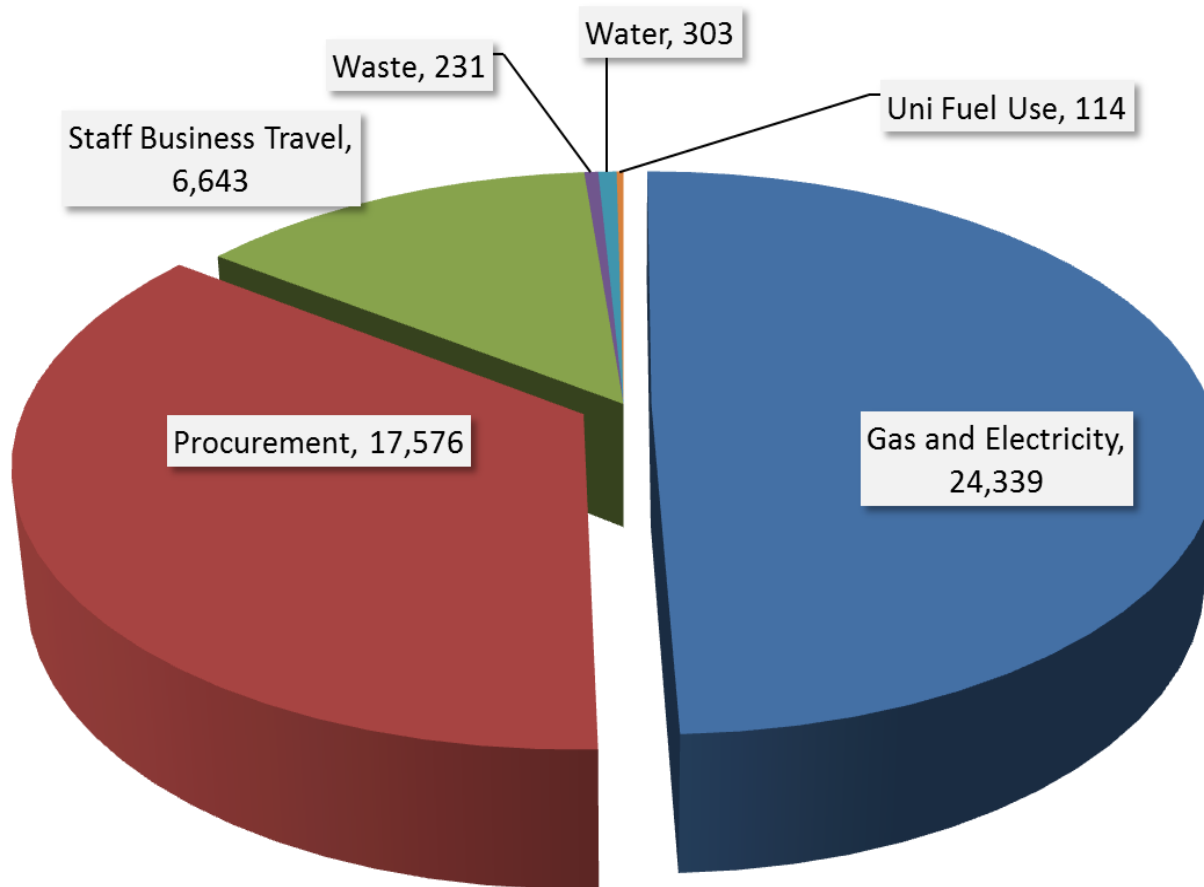
- Carbon Neutral 2016
- Zero Waste
- Transition University

- Smart Buildings
- Clean Energy
- Conscientious People



Our Carbon Footprint

University Carbon Footprint 2012-13, 49,206 tCO₂



Salix - Boiler Replacement

Agnes Blackadder Hall - 14 inefficient boilers replaced by 8 condensing boilers = 24% energy saving, 160 tCO₂.

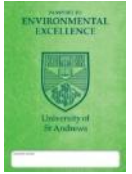


Salix - CHP at Physics

Cost £650,000, payback in 4 years, saving 808 tCO₂/yr



Micro Renewable Projects



Solar Thermal at MSB – Evacuated Tube



University Large Scale Renewable Projects



Kenly Community Wind



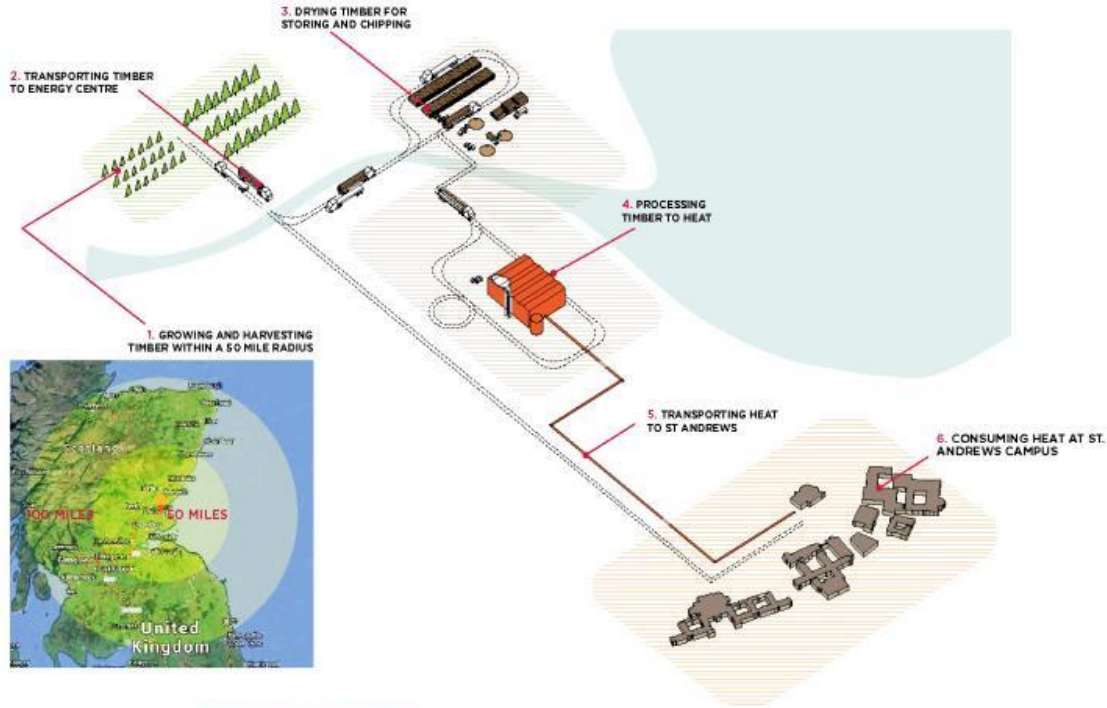
Guardbridge Biomass district heating

The Biomass Process

The University will procure wood in the form of 3m long roundwood logs. These will be chipped on site and fed into the boiler.

The University will require between 15,000 and 17,000 tonnes of wood. Discussions are already underway with existing and potentially new local and regional suppliers of roundwood.

The aim is to source as much of the roundwood from local markets as possible.



3D view of proposed biomass energy centre site - the biomass energy generating process will be contained within the existing Pulp Shed, and a new flue is to be constructed on the western side of the shed

GREEN TOURISM GOLD - DAVID RUSSELL APARTMENTS



- Visit Scotland Scheme
- Use of design features to promote Green Tourism
- Rain water reuse
- SUDS Basin
- Energy saving design and controls
- Biodiversity walks and tips
- Bus link to town
- Robust recycling
- Good communication to visitors
- Procurement
 - A-rated appliances
 - Sustainable wood sourcing
 - Fairtrade

Latest News – Agnes Blackadder and McIntosh Halls Achieve Gold!

Thank You

