



University of St Andrews
from first to foremost

600 YEARS
1413 – 2013

The Carbon Trust Standard

Recognition for real Carbon Reduction

Tuesday 20th October 2009

Case Study – St Andrews University

David Stutchfield – Energy Officer



- Where are we now?
- Why did we apply for the Carbon Trust Standard?
- What was the process like?
- How difficult was it working with the assessor?
- What did we need to prepare?
- What benefit have we seen from having Carbon Trust Standard?



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Where are we now?

In 2008/2009 St Andrews University had:

- 2067 staff and 7258 students
- a turnover of £129m, utility bill £5.4m
- over 140 buildings, 500 boilers





Where are we now?

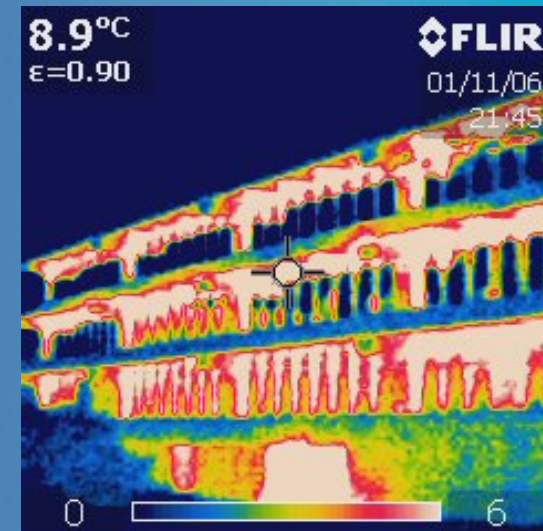
- Successfully completed the Higher Education Carbon Management Programme and developed our implementation plan 2007/8
- Carbon Trust Standard – Awarded Jan 09
- Embarked on ‘Universities That Count’ 08-09
- Scottish Principals Climate Change Commitment – signed up in early 2009
- Annual Sustainability reporting in University accounts established

- £1.7M SALIX Fund illustrates that energy is priority – since 2007
- Green Fleet Review implemented as part of Travel Plan – new low carbon vehicles
- Focus on water and waste
 - leakage surveys and reduction of use
 - 60% recycling rate
 - composting all vegetable/fruit and trialling total composting
- BREEAM excellent standard for all new developments and major refurbishments
- Rolling out awareness raising – School of Psychology research-led
- Helping develop town and local area bid for Climate Challenge Funding - £213k



Why did we apply for the Carbon Trust Standard?

- Early action metric for the Carbon Reduction Commitment. Will affect our position in the CRC league table for three years, and so potentially give us a financial benefit.
- National recognition for the energy management systems and carbon reduction we have achieved.
- Independent audit of what we are doing.





What was the process like?

- Apply for the Standard – can you actually show a carbon reduction?
- It is expensive – but the consultant assessor will help you through the process
- An assessor is allocated to you (although we did express a preference)
- Assessor sends you the spreadsheets and assessment form to complete
- Assessor will visit site to help you through the process, and work out what additional data is required.
- Put together all the missing information
- Assessor revisits and ensures all data complete and submits assessment form.
- CTS award – local publicity etc



How difficult was it working with the assessor?

- Our assessor was extremely helpful and took us through the form.
- Explained what evidence was required
- Looked at what policies we had
- Helped us allocate the documents to the correct section of the application
- Looked around at what systems we used, and energy saving measures we had implemented



What did we need to prepare?

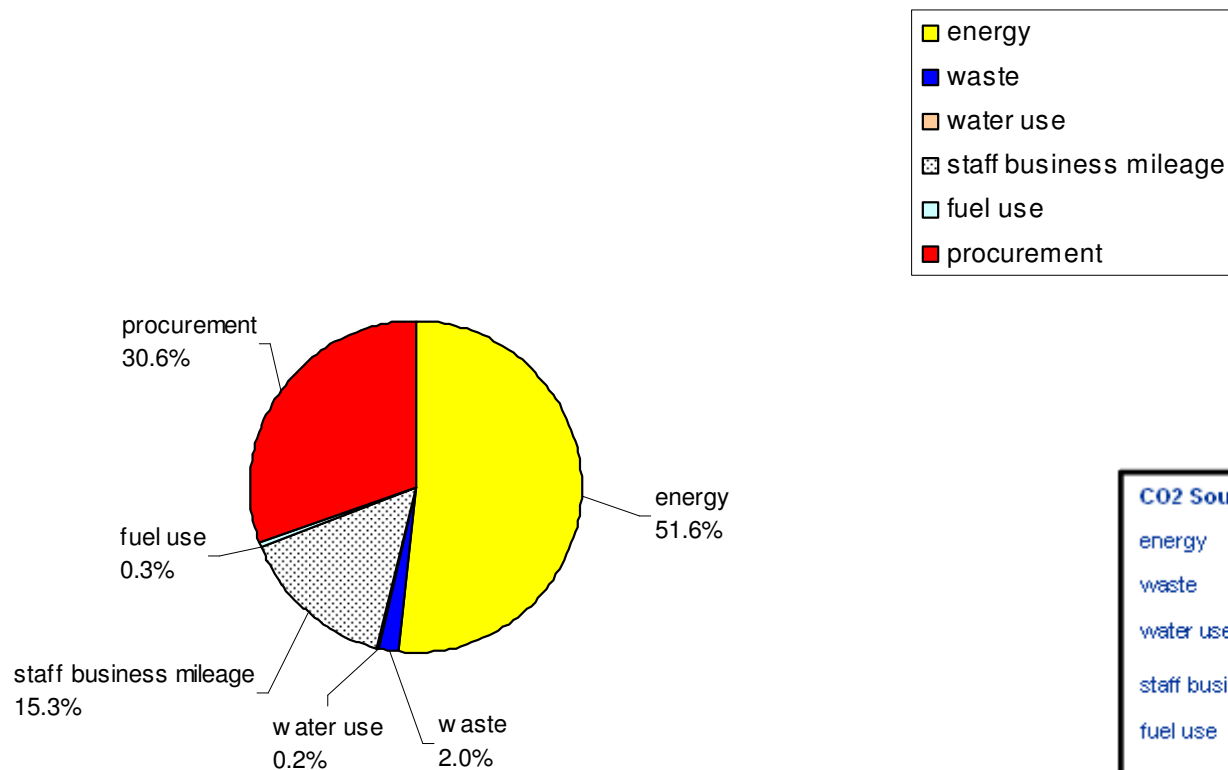
- EMS – Estates Management Statistics give our annual carbon emissions over the years. This provided the basic carbon data for assessment + £ turnover of Uni
- Carbon reduction. Over the three years, our carbon emissions rose by 3.6%, but our turnover rose by 18.7%, so our turnover benchmark (inc inflation) was – 6%
- Higher Education Carbon Management Program – gave us our carbon footprint, a reduction target, plus the Strategic Implementation Plan showed how to achieve this.
- Energy reduction measures - Salix
- Sustainability Policies to show that carbon reduction was embedded in the University governance. Put them all up on your website – good for reputation, FOE, CTS application.



Our carbon footprint



2007 UNIVERSITY CARBON FOOTPRINT

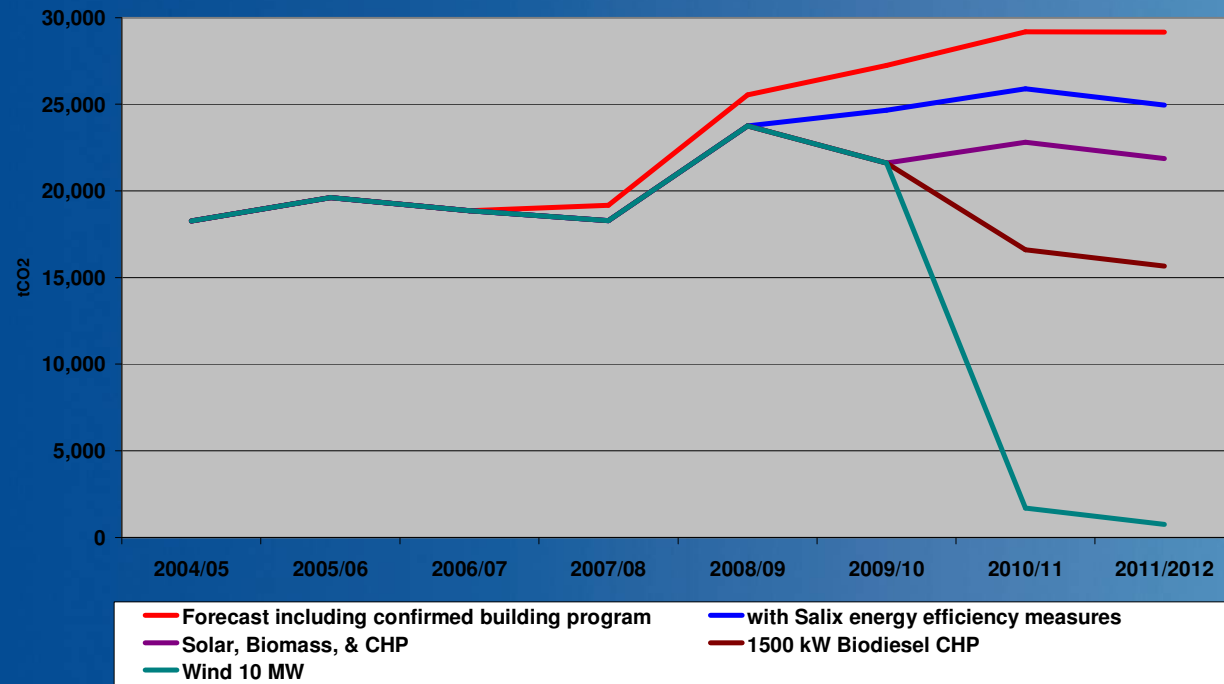


C02 Source	Tonnes C02
energy	16,850
waste	649
water use	78
staff business mileage	5,000
fuel use	87
procurement	10,000
Total	32,664



- SD Strategy – carbon neutral for energy by 2012
- Rising energy costs and consumption
- University expansion of buildings

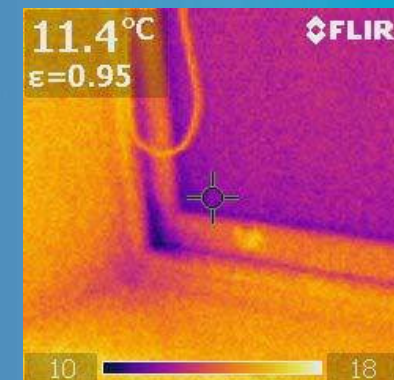
Carbon Forecast to 2011/2012





Details of Salix projects

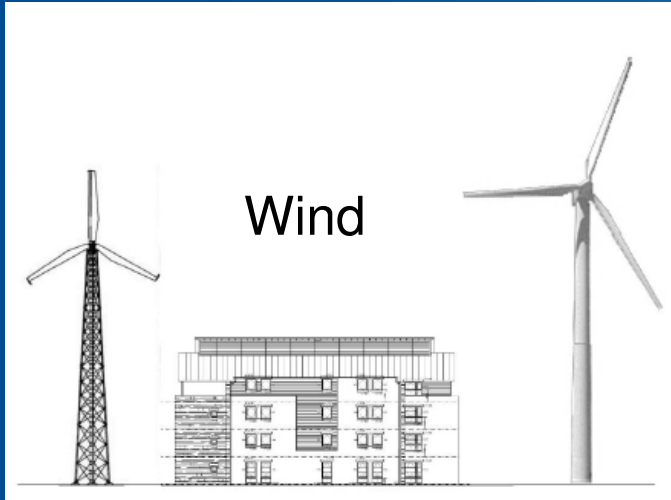
- Typical projects -
 - Roof & pipe insulation
 - Window draught proofing
 - Boiler controls
 - Boiler replacement
 - Ventilation heat reclaim
 - Motor controls
 - LED lights



- Total of £1,200,000 committed so far



Renewable Energy



Solar PV, solar thermal and geothermal

Biomass CHP



Policies and systems

- Governance Policy = SD Strategy, HECMP SIP, Sust Design Guide, Travel & Parking Plan, Sust Procurement Policy,
- Governance Responsibility = SD Strategy, Sust Policy Group, Environmental Task Group, Residential Business Svs Environment Supremos, Student Association Sustainability Committee.
- Governance Reporting = Annual Sust Performance Report, Monthly Utility Data Reports to Schools & Units
- Accounting Process = M&T Software (Systemslink), monthly meter reads, bill verification, collection of transport fuel data.
- Carbon Management Monitoring = M&T Software, CT partnership agreement, renewable feasibility studies, monitoring of fuel logs.



Policies and systems - 2

- CM Targets = SIP (carbon neutral), Carbon Gap reporting, Salix carbon reduction targets, internal and external benchmarks, EMS.
- CM Reduction Programs = Green Fleet Review, Bike to Work Scheme, Salix, Renewables, 100% of University electricity where CCL is payable from renewable resources.
- CM Investments = Salix £1.2m, now recycling £400k pa back into fund.
- Training = Psychology awareness, RBS staff training, staff induction, Green Week, Interhall energy competition, Sustainable Living Guide.
- Products & Services = SD Degree (undergrad & postgrad), Green Tourism Gold, People & Planet Green League!, integrating into student experience, community involvement, CCF



What benefit have we seen from having Carbon Trust Standard?

- Initial publicity, locally & nationally
- Recognition by senior University management and increased awareness of Estates
- We use CTS for internal presentations as it shows to staff & students that what we are doing is good, and encourages behaviour change.
- Branding and good corporate image to external stakeholders



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Thank You



www.st-andrews.ac.uk/environment