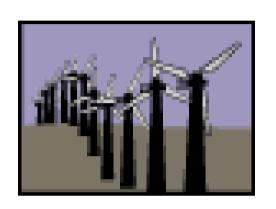
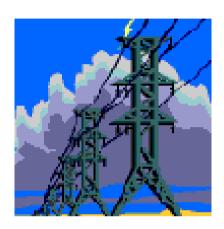
Scottish Court Service





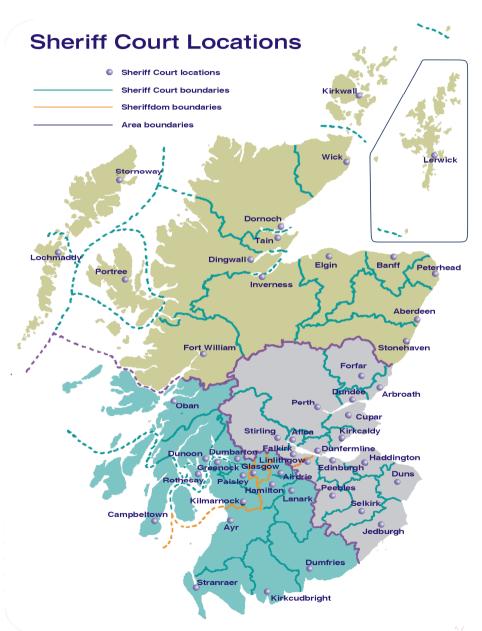




Carbon Trust Standard – Case Study

Scottish Court Service – Key Facts and Figures

- 49 Sheriff Courts
- 4 High Courts
- Asset Book Value £375M
- 81% Estate is Listed
- Annual Estate Budget £26M
- Utilities Budget £3M



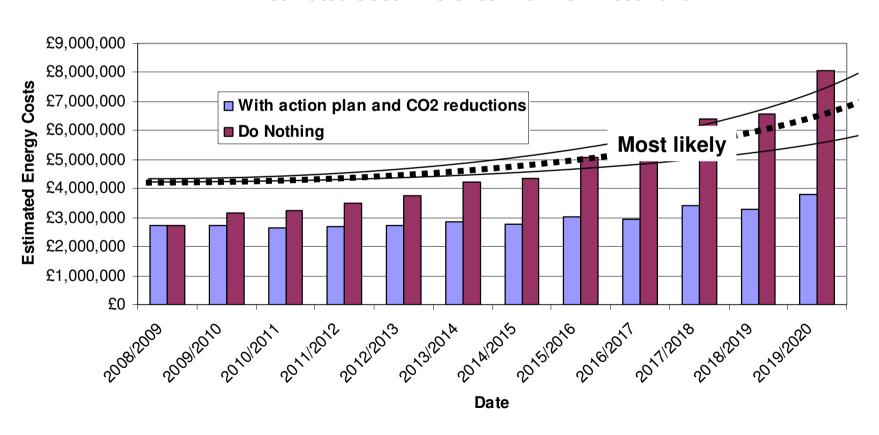
WHY: what were the key drivers?

- Understanding our Carbon Footprint
- Cost Saving
- Scotland's Climate Change Declaration
- Carbon Reduction Commitment
- Reputation / leadership within the sector

.....the right thing to do

To help reduce future annual costs by £2-4m by 2020.

Estimated Cost Difference With No Investment



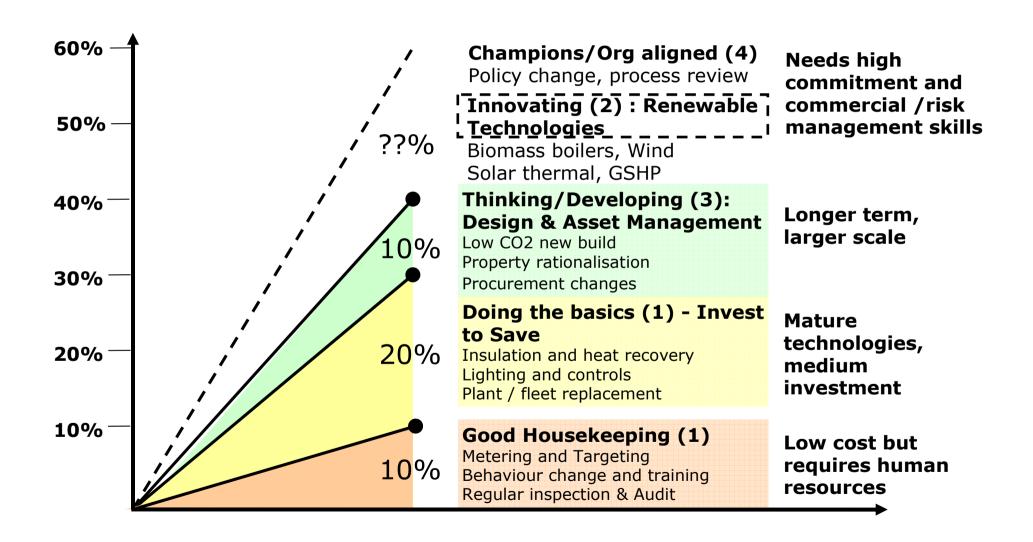
Current SCS environmental impacts and targets

- We currently consume 36,800,000 kWh of energy per year:
 - Same as a town of 6,000 people
 - Costs £3 million per year
- Energy reduction target: 80% by 2050
- Waste reduction target: 30% by 2014

Everyone in SCS needs to help!



How: How can the targets be met?



Glasgow Sheriff Court Case Study

Public Sector to lead by example – large public organisations to provide demonstration schemes.......white paper – meeting

the energy challenge 2007

Glasgow SC PV Array



- Building Opened 1986
- Floor area 27000m²
- 22 Courts
- Electricity consumption 3.2 million kWh
- Gas Consumption 2.5million kWh
- Over last 3 years electricity reduced by 3% and gas by 16%

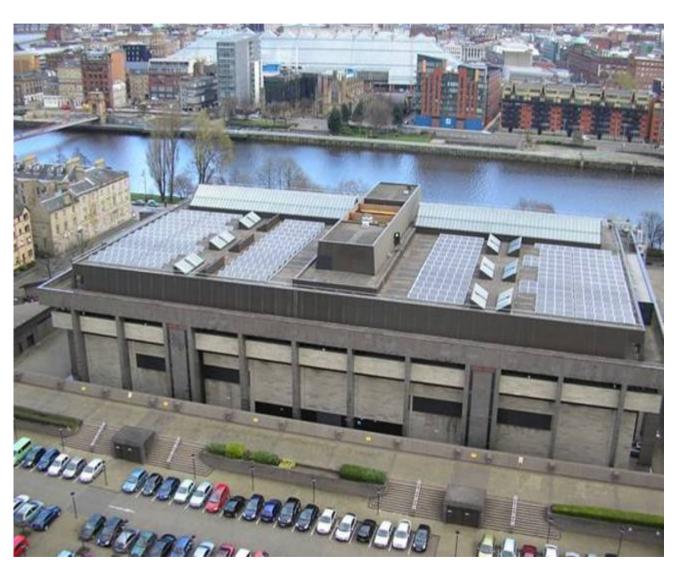
scottish

service

Approvals and Timeline

- Aug 2007 Tentative bid for additional Capital submitted
- Sep 2007 Business case approved to proceed
- Oct 2007 Project Managers appointed
- Nov 2007 Planning Application submitted
- Nov 2007 Solar Technology engaged
- Dec 2007 Final layout and Design agreed
- Jan 2008 LCBP2 Grant submitted and Approved
- Feb 2008 Site work starts
- Apr 2008 Installation complete 14 April
- Apr 2008 Scottish Power G59 testing complete and system goes on line

Glasgow SC PV Array



- Fixed Panels 30°
- 70kg Ballasted panels
- Mono-crystalline
 PV cells
- 25 year Guarantee
- Low Maintenance



Array Statistics

System Size : 2 @ 48.5 kWp

• Active Area: 698 m²

Annual Yield : 69,896 kWh

Annual CO2 Offset: 39,701 kg

• Fully Installed Price: £631,500

Cost per kWp: £5,007

Price with 50% Grant: £471,500

• £ per kgCO2 Offset/yr: £9.08



How 1. Housekeeping / doing the basics well:

- Improve Monitoring and Reporting –BMS Smart meters
- Complete EPC ratings (37 Courts over 1000m2)
- Energy audits being prepared
- Focused Backlog Maintenance investment strategy
- Develop site and corporate Green Travel Plans
- Recycling/Waste champions

How 2. Innovating: on a case-by-case basis

• River cooling. Using river, particularly Glasgow as source for

cooling / air-con

• CHP. Reduce consumption and Carbon and base energy

demand

• Micro Generation. Seeking locations for wind turbines on land SCS

own.

• Solar/PV. Locations for PV / Solar cells on SCS Buildings

• Biodiversity. Investigate and pilot various biodiversity supporting

techniques (e.g. green roofs)

All projects are assessed by business case analysis. Apply for :

- Grants where applicable
- Additional bids for SG funding

How 3. Thinking and developing: design guides

- Design Guides Revise for future regulation, targets and bench marks
- Maintenance Guides Work with FM provider to establish and agree processes under Sustainable Development principles
- Corporate Operational guides Building usage,
 People, Travel etc

How 4. Engaging staff: through Champions

- Establish Sustainability Champions. Ideally one per building
- Engagement Events. Switch it off days, Hand it in days, no car days, cycle to work schemes etc
- Recycling and Waste Management. Develop the HQ pilot, fund local court initiatives