

# Scotland's Climate Change Declaration – Annual Report 2012

South Ayrshire Council is currently gathering information in order to complete the annual report on progress against Scotland's Climate Change Declaration. This is the first annual report that has been completed since (a) the introduction of the public sector climate change duties in January 2011 and (b) the signing of a South Ayrshire CPP Climate Change Declaration by CP partners in on 20<sup>th</sup> April 2011.

In our 2012 annual report we would like to represent the great work going on within all our partner organisations as well as we can, and to that end would ask that you complete the form below. Please contact Lorna Jarvie, Sustainable Development Policy Officer, on 01292 612297 or at [lorna.jarvie@south-ayrshire.gov.uk](mailto:lorna.jarvie@south-ayrshire.gov.uk) if you have any questions.

**Please send your completed return to Lorna Jarvie by 11 January 2013.**

Please note, if you represent a partner organisation that covers an area greater than South Ayrshire, we're happy for your organisation to estimate the South Ayrshire portion of its emissions by using a per head of population equivalent. For example, for a Scottish organisation, the South Ayrshire share would be 2.19%, or for an Ayrshire organisation the South Ayrshire share would be 7.17%. If, however, you prefer to use an alternative metric, please how you did your calculations in your return.

## Q1. Corporate emissions

**(a) Does your organisation know how much greenhouse gas it is directly responsible for? If yes, please complete the white boxes below.**

How much energy is used powering your organisation's buildings each year? (please indicate unit of measurement)

*Please type **Dam Park**:*

The energy report for Dam Park (Sep-Oct 2011/12) identifies a base electricity usage of about 40Kw/hr due to running systems such as lights, computer systems, refrigerators and as yet other unidentified equipment that may or may not be necessary. Over ¼ of the total electricity usage is at weekends, possibly due to courses running at the weekends. With gas, peaks and troughs seem to relate to heating coming on and off, and when the refectory and training kitchens are working to the maximum. 20% of gas usage continues to be at weekends.

**Riverside Building**

Electricity usage is consistent with a base usage of about 30Kw/h due to essential systems and other unidentified equipment running. Over 30% of the electricity usage is at weekends which may be due to courses being run on Saturday mornings but will be worth further investigation. The subsequent report

	<p>identifies small rises in the “Out of Hours” usage indicating winter settings. Just under 15% of the weekly usage is at the weekend and may be due to auto firing of the boilers for maintenance reasons.</p> <p>Cumnock</p> <p>Base electric usage for the downstairs distribution board is 100-200Kw/hr.</p>																								
<p>How much fuel does your organisation use in vehicles each year (please indicate unit of measurement)</p>	<p>11,750 litres of petrol and diesel</p>																								
<p><b>(b) Does your organisation have targets for its ‘corporate’ greenhouse gas emissions? If yes, please complete the white boxes below</b></p>																									
<p><b>(i) If yes, please report your organisations:</b></p> <ul style="list-style-type: none"> <li>target level and the period it covers</li> <li>baseline year and emissions in that year</li> <li>most recent year for which data is available, and emissions in that year,</li> </ul> <p>Please indicate unit of measurement (e.g. tCO<sub>2e</sub>)</p> <p><b>When providing this information, please:</b></p> <ul style="list-style-type: none"> <li>make clear which gases (e.g. all greenhouse gases or only carbon dioxide).</li> <li>Make clear where have you drawn your boundaries (e.g. energy used in buildings, business travel etc.).</li> <li>What conversion factors have you used? (the UK Government has published conversion factors at <a href="http://www.defra.gov.uk/environment/business/reporting/conversion-factors.htm">http://www.defra.gov.uk/environment/business/reporting/conversion-factors.htm</a>.)</li> </ul>	<ul style="list-style-type: none"> <li>Electricity (grid) per kWh, 0.547 from Defra / DECC Sept 2009 Table 3c</li> <li>Natural gas per kWh, 0.184 Defra / DECC Sept 2009 Table 1b (gross CV basis)</li> <li>Average petrol car per km, 0.21 Defra / DECC, 2009, Table 6b</li> <li>Diesel van up to 3.5 tonne per km, 0.27 Defra / DECC, 2009, Table 6i</li> <li>Waste collected (tonnes), 447</li> <li>Water consumed (m3), 0.404 <a href="http://www.bre.co.uk/pdf/waternews4.pdf">http://www.bre.co.uk/pdf/waternews4.pdf</a></li> </ul> <table border="1" data-bbox="735 1375 1267 1715"> <thead> <tr> <th></th> <th>Annual Cost Savings</th> <th>Annual C02 Saving</th> <th></th> </tr> </thead> <tbody> <tr> <td>2009</td> <td>£5,000</td> <td>0.00</td> <td>0%</td> </tr> <tr> <td>2010</td> <td>£513</td> <td>40.69</td> <td>26%</td> </tr> <tr> <td>2011</td> <td>£28,957</td> <td>198.59</td> <td>125%</td> </tr> <tr> <td>2012</td> <td>£33,781</td> <td>228.17</td> <td>144%</td> </tr> <tr> <td>2013</td> <td>£33,781</td> <td>228.17</td> <td>144%</td> </tr> </tbody> </table>		Annual Cost Savings	Annual C02 Saving		2009	£5,000	0.00	0%	2010	£513	40.69	26%	2011	£28,957	198.59	125%	2012	£33,781	228.17	144%	2013	£33,781	228.17	144%
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<p><b>(ii) An explanation of recent trends.</b> For example, is your organisation on track to meet its emissions targets? If not, are there any reasons for this? Are projections available that give an indication of the direction of future emissions and what do these show?</p>	<p>Organisation is on track to meet its emissions targets.</p>																								
<p><b>(iii) List any measures your organisation is putting in place</b> to reduce emissions:</p>	<ul style="list-style-type: none"> <li>Replace old boiler at Dam Park, Fine tuning of</li> </ul>																								

	<p>BMS, Travel Plan, Roof insulation at Cumnock</p> <ul style="list-style-type: none"> <li>• Replacing pipe-work and radiators at 45% of Dam Park, New double / triple glazing at Cumnock, Energy efficient IT, TRVs at Cumnock, Replace 50% lighting at Cumnock, timeswitches on vending machines</li> <li>• Upgrade roof insulation at Dam Park and IT Centre to 300mm, Insulate walls at Dam Park and Cumnock</li> <li>• <i>Planned installation of new centralised heating controls to link all buildings</i></li> </ul>
<b>(iv) How is this work being financed?</b>	<i>Work is being financed by College</i>

## Q2. Wider emissions

**(a) Is your organisation considering area wide emissions?**  
**If yes, please complete the white boxes below**  
*for more information on what area wide emissions are please go to*  
[http://www.localfootprints.org/documents/9935\\_LFP%20Briefing%20Measuring%20and%20Influencing%20Area%20emissions.pdf](http://www.localfootprints.org/documents/9935_LFP%20Briefing%20Measuring%20and%20Influencing%20Area%20emissions.pdf)

<p><b>(i) Is your organisation taking any action to reduce the emissions from the South Ayrshire area?</b> (e.g. through influence or leadership, including for example sustainable procurement / the things you buy)</p>	<p><b><i>To embed sustainability in all aspects of college life</i></b></p> <p><i>In more detail from the Strategic Plan, “Ayr College is committed to responding to the challenge posed by the speed and scale of climate change, and to the opportunities available to contribute to a collective solution that can avert the worst impacts on our economy, society and the environment. We will work to engage staff and students in this challenge and work with colleagues across the sector to share good practice on climate change mitigation. We will work with employers and other organisations, sharing knowledge and expertise to further develop our collective ability to reduce our overall carbon footprint.”</i></p> <p>Two actions are highlighted in the College Strategic Plan:</p> <p>1. To develop an understanding of and commitment to sustainability in all employees</p> <p>and learners</p>
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2. To engage in knowledge exchange activity with businesses and other organisations

on climate change mitigation and adaptation

Performance will be measured according to these targets:

- An understanding of sustainability issues embedded into programme design
- Energy consumption is reduced year on year
- Goods and services are procured according to responsible practice that takes cognisance of sustainability issues
- Numbers of staff and students using public transport and travel share schemes increases year on year

#### **Carbon Management Plan**

1. Documented the scope of the plan and the vision for Ayr College's emissions reduction. Identified and committed resources to develop and deliver the vision. Explored how Ayr College's governance can be used or changed to facilitate the vision.
2. Measured the current baseline of emissions (2008-9) in terms of cost and CO2 and forecast how these will vary in a 'business as usual' environment over the course of the CMP.
3. Identified, quantified and prioritised opportunities for reducing emissions.
4. Documented the outcomes of steps 1-3 along with details of any funding required and information on how the plan will be implemented.
5. Started implementing and developing on-going work.

The plan also acknowledges the work that Ayr College has already undertaken in this area before and during the baseline year including:

- Membership of the Environment Association for Universities and Colleges
- New metering system installed to monitor

	<p>areas of high usage.</p> <ul style="list-style-type: none"> <li>• Energy Performance Certificates have been produced</li> <li>• Heating system at Dam Park controlled by Building management system</li> <li>• Passive cooling (i.e. window opening) cools building during warm periods</li> <li>• EMCO software in the IT centre ensures the automatic shut down of networked computers at the end of the day. All classroom printers enter power-save mode when idle for an hour</li> <li>• Very low energy lights throughout IT centre and shut down automatically at the end of the day, PIRs in toilets, PIRs in toilets and offices of Dam Park. External lighting enabled through day time sensors and automatic timers.</li> <li>• Water restrictors fitted to urinals in Dam Park building</li> <li>• Wood and bricks are re-used in construction classes</li> <li>• Business travel policy includes a higher mileage rate for car-sharing and a mileage rate for cycling. Car-sharing is regularly practised using personal arrangements between staff.</li> <li>• Travel Plan will be developed for the new aeronautical training facility at Ayr Campus and will be relevant for all Ayr Campus, building on the existing travel plan for Dam Park</li> <li>• The HMIE aspect review on sustainability (2009)<sup>1</sup> identified Ayr College's work in this area. The College had appointed a manager to champion initiatives in sustainability. The manager promoted sustainability across the college through the creation of a cross-college group called ECO Warriors, which included learners and both teaching and support staff. The group made suggestions to the college of ways that it can become more sustainable through energy savings and through the promotion of special events such as a green travel day.</li> <li>• HMIE review of Ayr College 2010 highlights that sustainability is included in many areas of the curriculum and underpins many wider activities undertaken by the learners in the</li> </ul>
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<http://www.hmie.gov.uk/documents/publication/sscar.pdf>

	<p>college.</p> <p>The 2009/10 College report identifies innovative practice in that the electrical installation and plumbing and gas units now include new courses in renewable energy with a Sustainability Fair at the start of the year.</p>
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<p><b>(ii) Have you got any targets for the reduction of area-wide emissions?</b></p>	<p><i>Working in conjunction with the University of the West of Scotland on a Car Sharing/Travel to work initiative. Database that allows both staff and students from both organisations to share travel whether it be public transport or car sharing.</i></p>
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### Q3. Adaptation

**(a) Is your organisation considering climate change adaptation?  
If yes, please complete the white boxes below**

**(i) What is your organisation doing to adapt to climate change?**

For example

- Working out impacts: what has your organisation done to assess its vulnerability to current and past climate impacts, and the impacts associated with future climate change predictions/scenarios?
- Preparing for the future: what is your organisation doing to prepare for climate change impacts, and to build adaptive capacity and climate change resilience?

You may wish to refer to:

- Scotland's Climate Change Adaptation Framework and Sector Action Plans:  
<http://www.scotland.gov.uk/Topics/Environment/climatechange/scotlands-action/adaptation/AdaptaitonFramework>
- Scottish Climate Change Impacts Partnership (SCCIP) website:  
[www.sccip.org.uk](http://www.sccip.org.uk)

**Behaviour change campaign**

- Changing the behaviour of staff and students will be a major source of cutting costs and carbon emissions. Very importantly for an education institution, practical action to reduce the College's environmental impact will also reinforce existing and future education for sustainable development and improve the college experience.
- This campaign has been developed with reference to the HMIE aspect review on sustainability, and the Carbon Trust's guidance on Creating an Energy Awareness Campaign.
- A branded awareness campaign will focus on 4 quarterly 'theme' months encouraging action on energy, waste, travel and water resources over a whole year and beyond. Linked to each of these months will be practical improvements, whole college information and motivational events, curriculum projects and community links. Developing and supporting a network of 'green champions' across the college is a key to success.

### Q4. Communications

(a) Is your organisation communicating on climate change? If yes, please complete the white boxes below	
<p><b>(i) Has your organisation undertaken any communications on climate change?</b> This could be internal or external communications. If yes, please detail.</p>	<p><i>This has taken place through implementation of the travel plan for the College and events that continue to be associated with this plan.</i></p>
<p><b>(i) Does your organisation plan to undertake any communications on climate change?</b> This could be internal or external communications. If yes, please detail.</p>	<p>Yes. Some of these have already been identified in section three.</p> <ul style="list-style-type: none"> <li>• Induction: Ayr College could add a theme on Sustainability in the staff induction. This should provide an introduction to sustainability, how the college is tackling it, what practical things all staff can do and help new staff reflect on where their new job will impact on sustainability.</li> <li>• Meeting agendas: Sustainability could also be added to every meeting agenda to encourage people to consider it. If backed up with relevant education materials or training, this will be a powerful agent for change.</li> <li>• Job descriptions: To emphasise the importance of everyone doing their bit on sustainability, it will be worth considering adding practical energy saving, waste reduction etc. to job descriptions.</li> <li>• Training: The Environment Association for Universities and Colleges offers a wide range of CPD training courses for different staff in colleges.</li> </ul> <p>Learning: Ayr College has made a commitment to embed sustainability into every student course. The HMIE Review on Sustainability recommended how this could be achieved</p>

Please send your completed return to Lorna Jarvie, Sustainable Development Policy Officer at [lorna.jarvie@south-ayrshire.gov.uk](mailto:lorna.jarvie@south-ayrshire.gov.uk) by 11 January 2013. Thank you for completing this return.