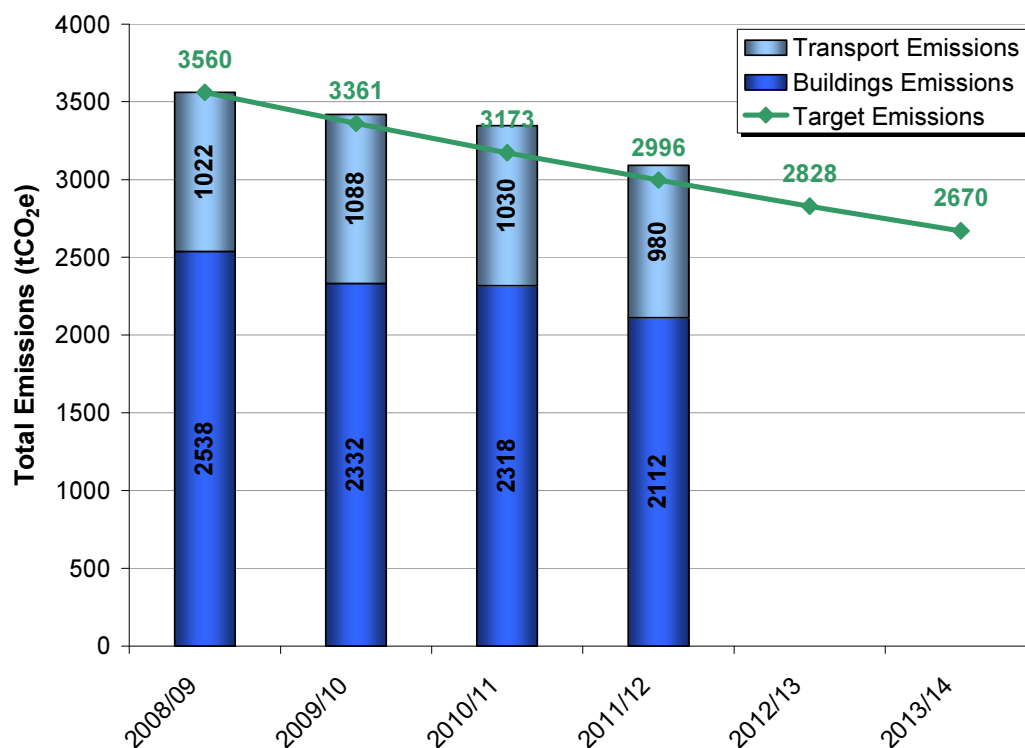


Greenhouse Gas (GHG) Emissions Summary Report 2012

Overall Emissions 2008/09 to 2011/12

All local authorities are required to submit a Greenhouse Gas (ghg) Emissions report annually to the Department for Energy and Climate Change (DECC), and South Holland District Council has a Carbon Management Plan with a target of 25% reduction in CO₂ emissions from the baseline year of 2008/09. This was a measure of the National Indicator NI 185, and now that the ghg emissions reporting has superseded NI 185 the targets can be translated into 25% ghg emissions measured in tonnes of carbon dioxide equivalent (tCO₂e).



The graph above shows annual progress so far against the targets.

Transport 4.1% reduction
Buildings 16.8% reduction

Overall 13.1% reduction

The main focus has been on projects that reduce the electricity use within the buildings that are our biggest users as this offers the largest cost savings and reductions in ghg emissions. Progress in these areas can be seen in the information below.

Emissions (from gas and electricity use) from main fuel / energy users for baseline year 2008/09 to 2011/12 (tCO₂e)

	tCO ₂ e 2008/09	tCO ₂ e 2009/10	tCO ₂ e 2010/11	tCO ₂ e 2011/12	% reduction 2008/09 to 2011/12
Priory Road	366	352	336	245	33%
South Holland Centre	225	202	201	179	20%
Streetlighting	273	256	256	255	7%
Leisure Centres	1,002	880	858	797	20%
West Marsh Road vehicles	794	844	790	762	4%
Business miles	154	137	136	127	18%

Main savings made

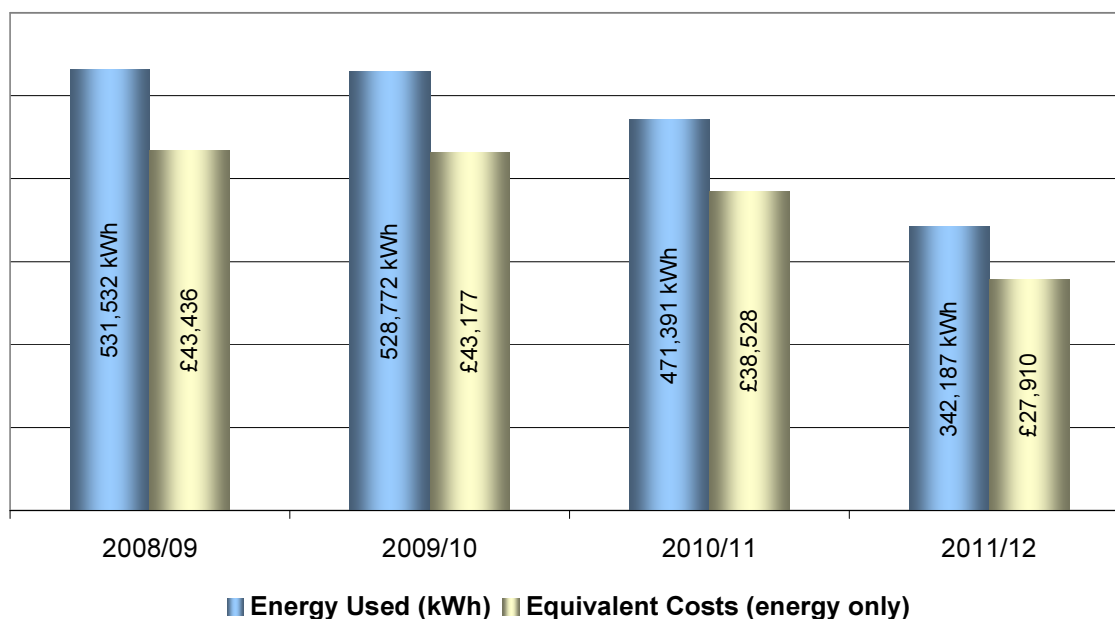
	Costs 2008/09	Costs 2009/10	Costs 2010/11	Costs 2011/12	Annual saving 2008/09 to 2011/12
Priory Road Electricity	£43,436*	£43,177*	£38,528*	£27,910*	£15,526*
South Holland Centre Electricity	£24,054*	£21,307*	£21,720*	£18,607*	£5,447*
Business miles	£201,136**	£176,384**	£172,147**	£139,749**	£61,387**

* The costs are based on the kWhs used multiplied by the current tariffs. No standing charges, climate change levy or other costs are included.

* This is the costs of mileage claims only – no essential car users allowances have been included.

Priory Road

Priory Road Electricity



The graph above shows the electricity (kWh) used at Priory Road offices since the baseline in 2008/09, and the equivalent costs (based on today's energy tariffs) for the energy (excluding any standing charges, Climate Change Levy or other charges).

Projects carried out during 2010 and 2011 have reduced the electricity consumption and equivalent energy costs at Priory Road offices by 36% (excluding any standing charges, Climate Change Levy or other charges),

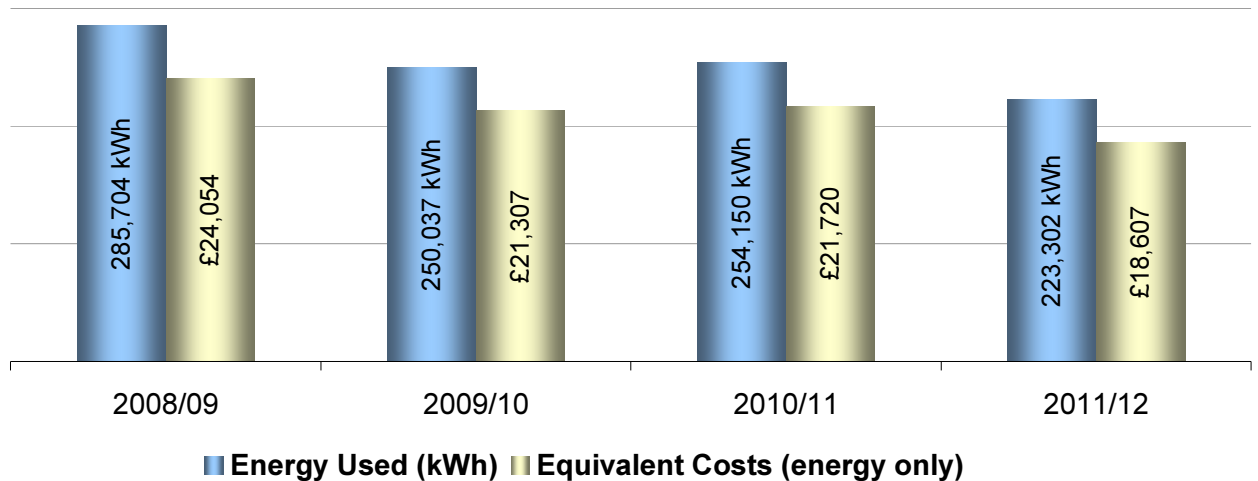
a saving of £15,526 p.a.

The main projects affecting the electricity use here are; server virtualisation (a large percentage of this was carried out in October 2010), voltage optimisation (February 2011) and PV (August 2011).

In addition to the savings made by reducing the electricity drawn from the grid, the income from the Feed in Tariffs for electricity produced is around **£8,000**

South Holland Centre

South Holland Centre Electricity



The electricity consumption at the South Holland Centre is highly dependent on how many events and bookings take place. **There was a 21.8% drop in electricity use at the South Holland Centre between 2008/09 and 2011/12** due to improvements such as lighting sensors in 2008 and a refurbishment including the installation of low energy lighting in January 2010. Voltage optimisation was put in during February 2011. Further projects have been carried out during 2011/12 that have contributed to the reduction in energy use, including replacement air conditioning and a digital projection system.

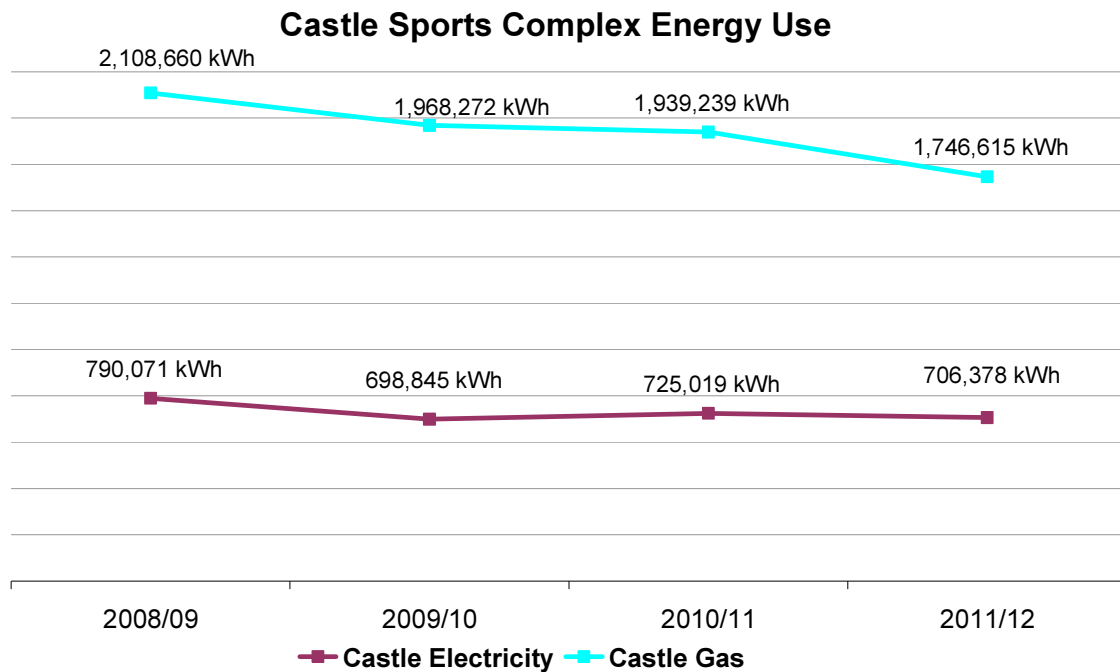
Based on today's energy tariffs for the energy (excluding any standing charges, Climate Change Levy or other charges) during this time

the equivalent cost saving has been £5,447.

Leisure Centres

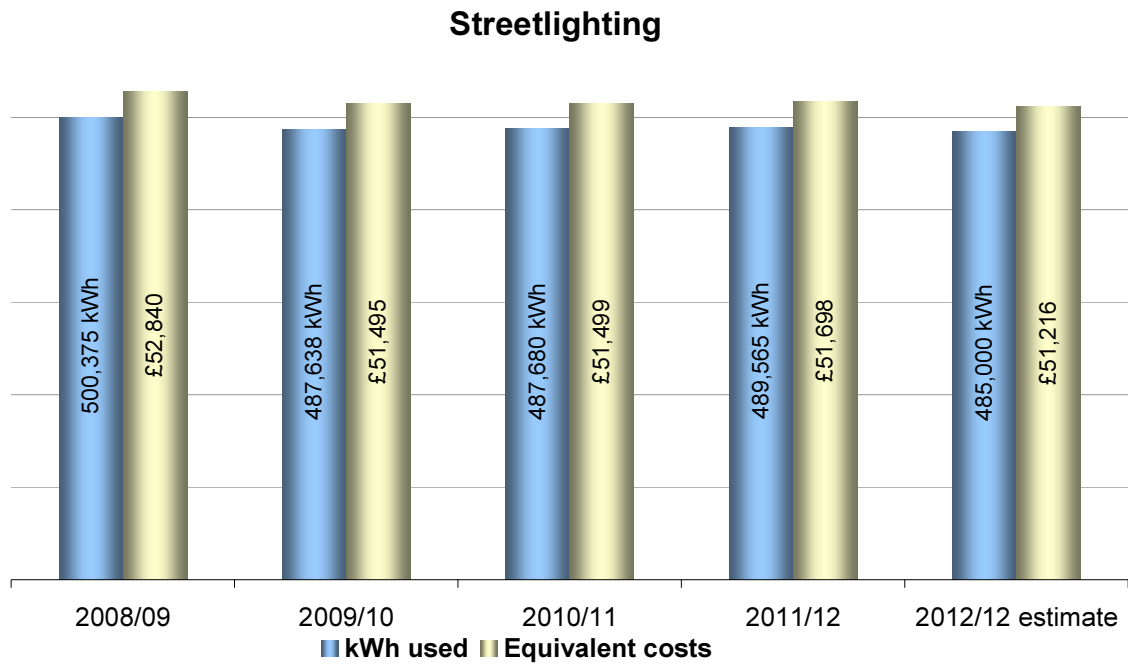
Costs for energy at the Leisure Centres are not available as they are paid by Leisure Connections. Their impact on the ghg emissions reported by the council is, however, very significant as they are the largest energy users within the Council's assets. The Peele Leisure Centre is owned by Lincolnshire County Council.

Castle Sports Complex



The reduction in gas use at the castle sports complex has resulted from a combination of projects such as the installation of pool covers and building insulation during 2009 and management of heating, particularly a reduction in heating of the diving pit in 2011/12.

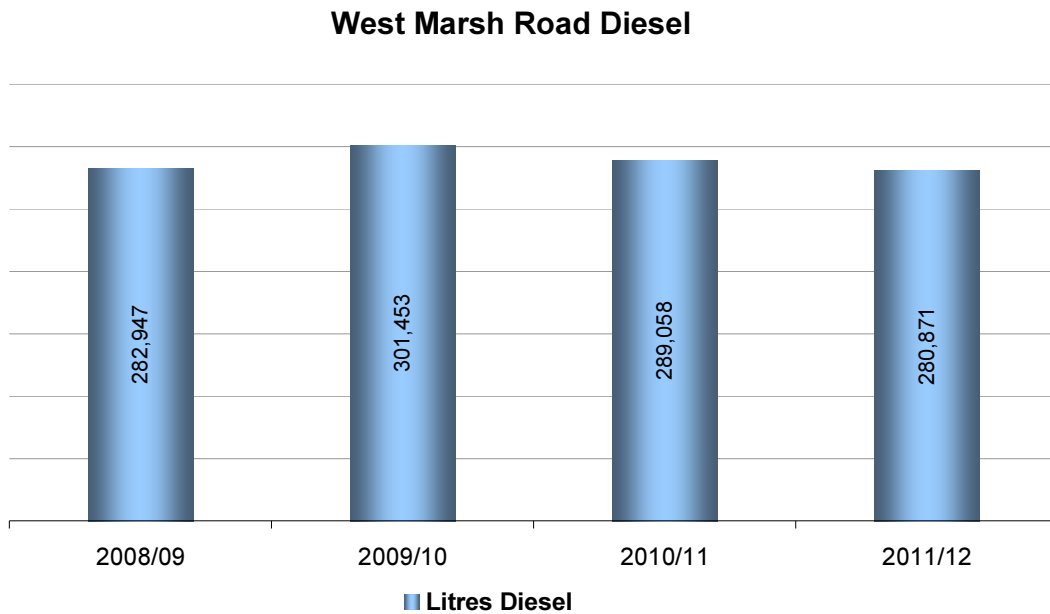
Streetlighting



A programme of replacement of street lights with more energy efficient ones has been started, with a number scheduled for the end of this financial year, expected to save £2,260 p.a. in total.

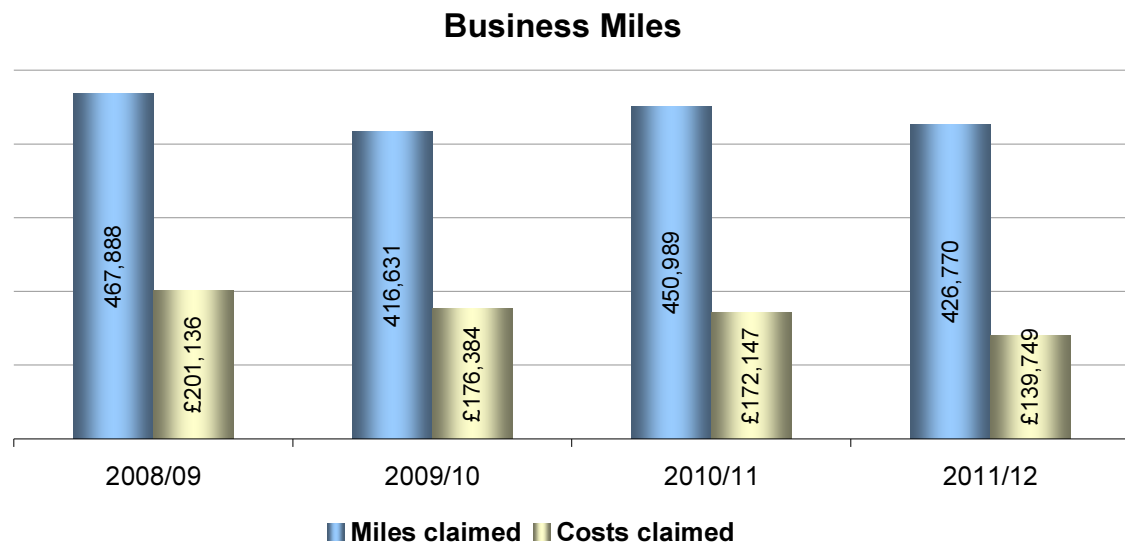
Transport

West Marsh Road Diesel



Round optimisations have been carried out for the recycling and landfill waste lorries, giving the most efficient routes available. Funding has been applied for to the £250 million Weekly Collection Support Scheme to reduce the amount of landfill waste collected by SHDC and to replace some of the vehicles currently used with more energy efficient models.

Business Miles



The amount of business miles has dropped between 2008/09 and 2011/12, however the amount is expected to rise in 2012/13 based on the past 7 months.

Next Steps

Further reductions rely on securing funding to carry out projects in order to invest to save and earn.

The most significant projects would include additional installations of solar PV on other buildings such as the South Holland Centre and community centres, new heating at Ayscoughfee Hall (for which a Salix interest free loan has been applied for and has been included in the capital bid for 2013/14), and investigating the use of variable speed drives and free air cooling.