

Energy Saving Projects in Malmesbury

The following are examples of energy projects in Malmesbury. The Carbon Management Plan has enabled investment across the county in a range of projects on the council's own buildings and estate. As part of this large programme the following 'invest to save' projects have been implemented.

Invest to save projects

The Activity Zone lighting upgrades

A series of lighting upgrades have been implemented at The Activity Zone in Malmesbury.

This has included the replacement of lighting in the sports hall to fit new high-efficiency fluorescent tubes. The new lighting reduces glare when playing sports and provides a brighter environment with reduced energy consumption. Occupancy sensors have also been installed to ensure that lights are not left on when the hall is unoccupied.

On average 25 per cent of energy use at sports facilities is consumed by lighting¹. As well as improving energy efficiency, it is also important for sports lighting to be high quality in terms of light emitted, robustness and durability. The swimming pool hall, studio, gym and reception areas have all benefited from new lighting, including the use of LED.

Combined heat and power (CHP)

This project installed technology to generate both electrical power and heat for the leisure centre. The CHP unit has dramatically reduced the cost of running the leisure centre by using gas to generate electricity for use on site, instead of drawing it from the National Grid. Heat is a side product of this process and is used to warm the building and pool water, therefore reducing the need for additional heating. This installation has saved approximately £47,000 over the past two years of operation. This is significant when compared to a current total annual energy bill of approximately £66,300.

Project	Annual saving (£)	Annual CO₂ saving	Year completed	*Total savings to date (£)
The Activity Zone, Malmesbury – combined heat and power	£23,448	84 tonnes	2013	£46,896
The Activity Zone, Malmesbury – variable speed drives on pool pumps	£2,782	17 tonnes	2011	£8,347
The Activity Zone, Malmesbury - sports hall lighting upgrade	£2,248	14 tonnes	2011	£6,745
The Activity Zone, Malmesbury - pool hall, studio and gym lighting upgrades	£2,289	12 tonnes	2014	£2,289
The Activity Zone, Malmesbury - general lighting and sensors	£1,033	6 tonnes	2012	£3,098

¹ Carbon Trust figure.

Project	Annual saving (£)	Annual CO ₂ saving	Year completed	*Total savings to date (£)
The Activity Zone, Malmesbury - studio and reception (LED) lighting upgrade	£115	1 tonne	2014	£115

*Represent estimated full year savings since completion

Other projects

SEACS programme

Through the EU funded SEACS (sustainable energy across the common space) programme, an energy ambassador was employed by Wiltshire Council to work with schools for 18 months, from late 2012 to early 2014.

Sherston Primary School was one of nine schools that received in depth support from the SEACS ambassador. As well as identifying practical ways for the school to reduce its energy consumption, pupils took part in workshops to make them more aware of the energy the school uses. This included using a thermal imaging camera to show heat loss from the building.

Luckington Community Primary School also participated in this project. Pupils at the school joined others in Wiltshire to make posters reminding people to switch things off; as part of their campaign of awareness raising and energy reduction. A pupil at the school submitted the winning entry to the poster competition and the school received power saving devices for every PC and laptop as a prize.

In 2011 Luckington Primary School had a 19 kWp solar photovoltaic system installed on its south west facing roof. The school now benefits from paying a lower price for the electricity generated than they would pay to purchase from the grid.

Community Activity:

Since 2011 the Malmesbury and the Villages Community Area Partnership (MVCAP) have had a [website](#) dedicated to identifying local community issues and addressing them by forming partnerships with local agencies, organisations and community service providers.

One of the actions to come out of this voluntary group is the community led One Planet Action Plan, which focuses on four key areas:

- Reduce our Carbon Footprint
- Reduce our waste
- MVCAP Sustainable Transport - Malmesbury Area Transport Hub
- Improve local community facilities and voluntary services