

Energy Saving Projects in Devizes

The following are examples of energy projects in the Devizes Community Area.

Invest to save projects

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 in the Devizes Community Area.

Devizes Leisure Centre - combined heat and power (CHP)

This project installed technology to generate electrical power and heat for the leisure centre. The CHP unit is situated in the main plant room of the building. The unit has dramatically reduced the cost of running the leisure centre by generating 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 heat the pool water. After two years of operation the CHP unit, along with a boiler replacement at the centre, have saved close to £77,000 in energy costs. This is significant when compared to a total annual energy bill of approximately £114,000 (2013/14).

Devizes Leisure Centre – lighting upgrades

A series of lighting upgrades have been implemented at the leisure centre. These include replacing lighting in the pool and sports hall with modern and more energy efficient equivalents. The new lights have the benefit of reducing glare and provide a brighter environment with reduced energy consumption.

In some areas occupancy sensor controls have also been installed to ensure that lights are not left on in unoccupied spaces.

Bradbury Manor (residential care centre) – solar pv installation

The solar panels at Bradbury Manor were completed in December 2014. This installation is expected to save the council £660 a year on electricity bills, with an income of £2,550 a year (from the feed-in tariff and selling energy back to the grid) for the next 20 years of operation.

Project	Annual saving (£)	Annual CO₂ saving	Year completed	*Total savings to date (£)
Devizes Leisure Centre – combined heat and power and boiler replacement	£38,448	154	2012	£76,896
Devizes Leisure Centre – heat recovery	£8,948	60	2011	£35,792
Devizes Leisure Centre – sports hall lighting upgrade	£4,712	25	2011	£18,851
Devizes Leisure Centre – general lighting	£2,351	13	2011	£9,406
Devizes Leisure Centre – pool hall lighting upgrade	£2,226	12	2014	£2,226
Devizes Leisure Centre – plant room	£1,761	17	2011	£7,044

pipe insulation				
Devizes Leisure Centre – variable speed drives on pool pumps	£1,440	12	2011	£5,760
Devizes Leisure Centre – occupancy sensors on storage areas	£121	0.6	2013	£242
Rowdeford School – draught proofing, glazing and external doors	£890	10	2012	£2,672
Kennet House - external lighting upgrade (LED)	£895	5	2013	£1,790
Bradbury Manor, Devizes – solar pv installation	£660‡	6	2014	£2,350

*Represent estimated full year savings since completion

‡ Income is £2,550 a year from the feed-in tariff

Other projects

Biomass boiler programme

During 2013 and 2014 the Council invested in an ambitious programme of biomass boiler installations in twelve schools which were previously heated by oil.

Rowdeford School, Bishops Cannings Primary School and St Barnabas Primary School (Market Lavington) are among those which have benefited from a new biomass boiler. These new systems, running on wood fuel, are able to generate income through the government's Renewable Heat Incentive which pays a tariff back to the council for the next 20 years of operation. The school benefits from a new fuel source that is sustainably sourced in the UK; increasing local energy resilience and reducing carbon emissions.

Collaborative low carbon schools service

The Collaborative Low Carbon Schools Service was a programme developed by the Carbon Trust to support local authorities and schools to work together to achieve effective school carbon management. Wiltshire Council worked in partnership with ten local schools to help reduce their carbon emissions and energy costs.

Rowdeford School and All Cannings C.E. Primary School were among those selected to work on a pilot project in 2011/12. The schools had an energy audit undertaken and implemented a number of behavioural changes to reduce energy use. Simple measures such as labelling and switching off lights and equipment were shown to be successful in reducing energy use and got the whole school involved.

Rowdeford School was recognised in 2014 for their work on sustainability projects and were awarded the EcoSchools Green Flag.

Sustainable Energy Across the Common Space (SEACS)

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

St Barnabas Primary School participated in the programme and took part in a number of activities to introduce energy themes into lessons. Pupils took part in an energy audit of school buildings, an insulation toolkit was used in science lessons and the energy ambassador ran sessions using a thermal imaging camera.

Local area initiatives

Sustainable Devizes

Sustainable Devizes is a local group of people who are developing low carbon initiatives and promote opportunities to live more sustainably. Established in 2008, the group's interests are wide ranging and include energy, transport, consumption and waste. Informal monthly meetings are held at Southgate Inn, Devizes.

Projects underway include developing an updated local food directory for produce available in and around Devizes. They also host two transport action groups to promote sustainable transport; Cycle Devizes and Devizes Passengers.

Currently a key focus for the group is to develop Sustainable Devizes into a Transition Town group.

www.sustainabledevizes.org.uk

Kennet Community Energy

Kennet Community Energy Limited (KCEL) is a Community Benefit Society which developed from the energy working group of Transition Marlborough. KCEL are engaged in developing renewable energy for the benefit of the communities in north and east Wiltshire. Members of the organisation invest to fund a growing portfolio of projects, initially focusing upon solar PV and biomass technologies. Their first solar PV projects, Wadworth Brewery Visitor Centre and Devizes School, are now up and running.

www.kennetenergy.org.uk