



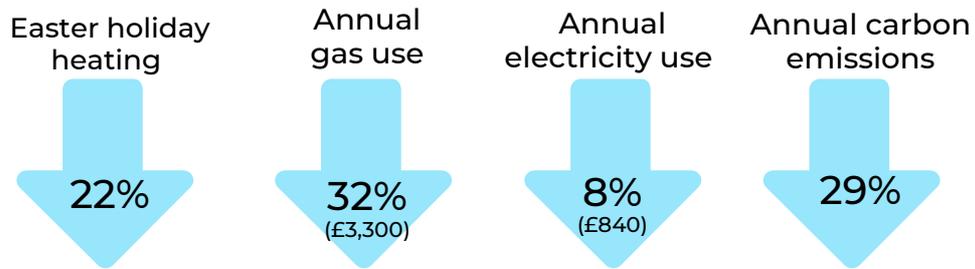
Energy Sparks Case Study Saundersfoot Primary pupil action

Saundersfoot Primary School is a school of 208 pupils in Pembrokeshire. Year 4 pupils and staff worked closely for a year with Energy Sparks and Awel Aman Tawe, a local community energy charity who have been delivering an Energy Warriors programme of Energy Sparks activities to schools across south Wales.



The project involved a cross-curricular and community based approach, combining analysis of the school's consumption data and recommended pupil activities from Energy Sparks with visits from artists, rappers, ex-coal miners, and renewable energy experts. This programme has focused on developing the skills, knowledge and attitudes that empower the pupils to take action on climate change.

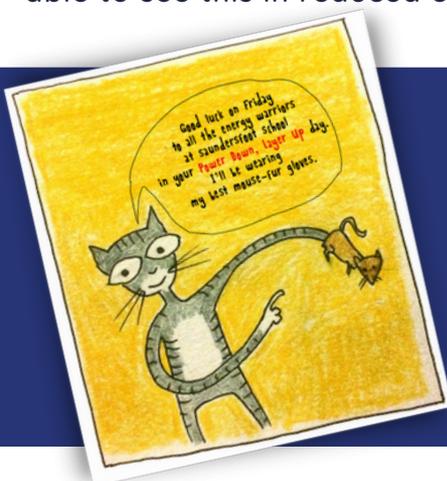
The impact of the work in 2021/2022 by pupils and staff at the school has been impressive:



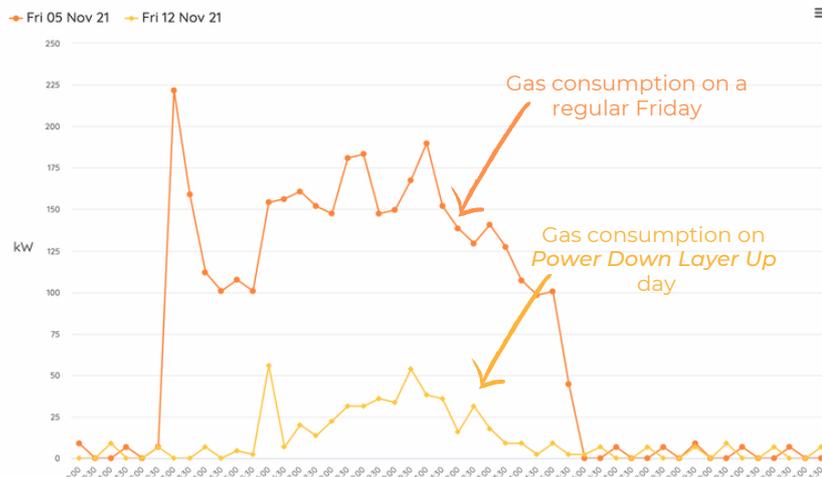
Energy Warriors

The Energy Warriors project at Saundersfoot has focused on educating and empowering the children to take action on tackling climate change. Pupils have been able to identify the key characteristics that an Energy Warrior needs - bravery, strength, creativity and kindness - and use these to drive change in the school.

Pupils have learned how to analyse energy charts to see the impact of their actions, as well as being able to see this in reduced energy bills and increased energy awareness in the school community.



Using Energy Sparks graphs the pupils were able to see the impact of a Power Down Layer Up campaign they held in the school.



Energy Sparks Case Study

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Energy Sparks Audits

Our online audits involve a 1 hour online meeting with pupils, school management and facilities staff who can provide necessary information about the school, such as building fabric, hot water and heating systems and lighting. Our auditor explains energy issues highlighted by our analysis and can suggest quick low-cost recommendations to reduce energy consumption. Our auditors can also discuss strategic capital investment - like the benefits of upgrading to LED lighting. The resulting report will provide an energy action plan for the school.

Pupil-centred action

Energy Sparks conducted an online energy audit with Year 4 pupils and the Headteacher. The meeting and the resulting report identified several actions that school staff and pupils could take.



Saundersfoot pupils could use Energy Sparks activities to:

- Check the location and setting of the school's heating thermostats
- Measure classroom temperatures to gather essential evidence on classroom comfort
- Check the motion sensor timers are right for each space where motion sensors are used to control lights.
- Find out the energy consumption of electrical appliances in school using appliance monitors to understand whether a new, more efficient solution would have a quick payback and produce longer-term savings in energy and carbon.
- Work with the caretaker to check the timer settings for the hot water heaters and make sure the hot water is switched off at the weekends and in the school holidays.
- Check whether mobile trolleys have timers and are set to the best times for efficient charging.
- Check whether classrooms use efficient LED screens, or if there are still older OHP/whiteboards.
- Run an assembly about saving energy, for the whole school or a year group.



Pupil feedback

A survey of Year 4 pupils at the end of the year showed:

- 100% of pupils feel like they can take action against climate change.
- 100% can show others how to take action against climate change.
- 90% could explain what climate change was.
- 80% were confident in explaining the connection between energy and climate change.

“I am part of climate change.”

“My parents have started to turn the lights off and so have I.”

“I feel like I can help [fight] Climate Change.”

- Saundersfoot pupils



Energy Sparks
Helping schools fight climate change