
Business Energy

Sandy Hore-Ruthven CEO, Severn Wye



Current UK Energy Generation mix

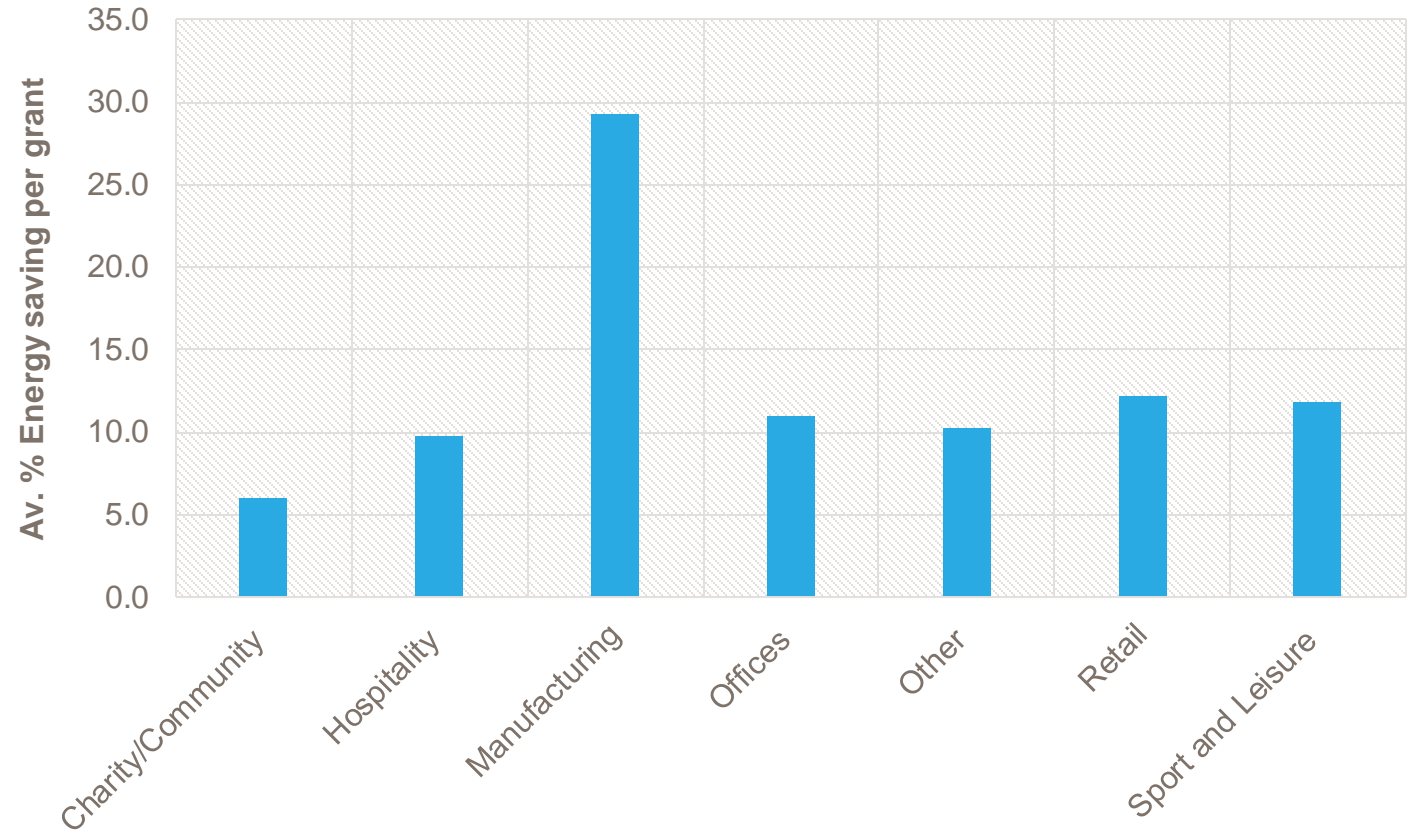
[Energy Dashboard - real time and historical UK energy figures, analysis and mapping](#)

[Energy Dashboard - real time and historical UK energy generation figures, analysis and mapping](#)



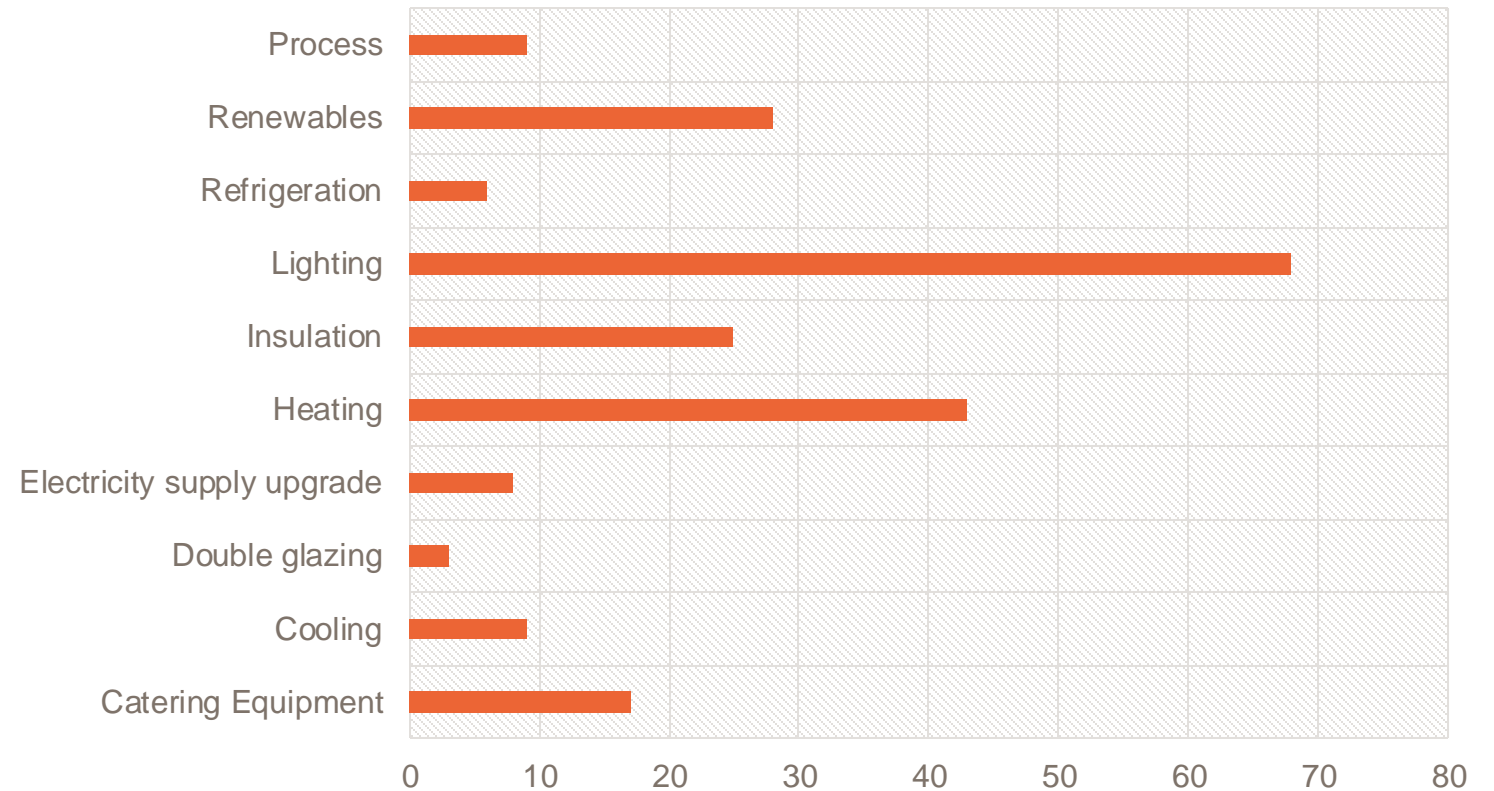
Insights

The biggest average energy savings can be achieved by manufacturing and industry



Summary of the installations Severn Wye has undertaken (quarterly)

While lighting and heating remain popular, improvements to business-critical equipment also feature strongly



The cost of energy saving

	£/KWh	
Cost of saving 1KWH of various technological measures	Boilers	£750
	Air Source Heat pump	£398
	Powrmatic heaters	£666
	LED lighting	£450
	Heat recovery system	£923
	Cask washer	£956
	Heating controls and zoning	£690
	Waste wood burner	£750
	Solar PV system	£767





Case Study RedFM Ltd

- Commercial landlord of Redwood House in Royal Wooton Bassett – built in 1987
- Wanted to keep costs down for commercial tenants – heating and lighting
- Installed:
 - Replacement boiler and zoning controls
 - LED lighting throughout
- Received £1,795 in grant funding towards £5,983 of improvements
- Savings of £692 per year, 3 tonnes of CO₂



Case Study Lyon Inn

- 16th century village pub under new husband-and-wife ownership, refurbished to include new restaurant facilities
- Owners wished to build in energy efficiency from the start of the refurb, and approached Severn Wye to identify areas of priority
- Installed:
 - LED lighting throughout
 - Induction cooking facilities
 - Refrigeration for the kitchen
 - Ambient cooling for the cellar
- Received £12,665 in grant funding towards £36k of improvements
- Savings of £6k per year, 19 tonnes of CO₂



Case Study

NH Case Ltd

- Family-owned company established in the 1920s, that distributes almost every category of food familiar to UK consumers, supplying manufacturers, wholesalers and caterers
- Huge demand on cooling costing over £100k/year on electricity
- Installed:
 - 288.6 kWp solar PV array
- Received £51,000 in grant funding towards £170k of improvements
- Savings of £30k per year, 108 tonnes of CO₂



Principles for energy saving

1. Know your energy use - what are the things that cost you most.
2. Saving energy is far more efficient than generating it. Insulation can save 10-30% on bills New equipment can save 10-15% on bills
3. Your staff will know and are your best allies in identifying savings and implementing them.
4. Work with an energy advisor to support you through the process.
5. Look for grants
6. Think long term – you don't have to do it all at once.


Government Grants https://www.gov.uk/business-finance-support?keywords=energy&types_of_support%5B%5D=grant&types_of_support%5B%5D=loan

Ofgem <https://www.ofgem.gov.uk/information-consumers/energy-advice-businesses/find-business-energy-efficiency-grants-and-schemes>





severn wye

 severnwye.org.uk

 [@Severn_Wye](https://twitter.com/Severn_Wye)



Case Study

APT Interiors

- Manufacture and install high end bespoke furniture and joinery
- Inspired to use waste wood for heating
- Following our survey, installed:
 - Wood waste burner
- Received £3,043 towards £10,144 of work
- Annual savings:
 - Over £1,730
 - 6.24 tonnes CO₂





Case Study Cotswold Riding for the Disabled

- Independent charity operating out of a stables working with 225 riders per week supported by 160 volunteers
- Keeping costs down essential to maximise the good that can be done with donations
- Installed roof insulation to volunteer spaces (e.g. kitchen, changing rooms) and LED lighting throughout
- Received £2,058 in grant funding towards £5,879 of improvements
- Saving enough money annually to cover the maintenance costs of keeping a horse





Case Study Grail Engineering

- Family business, local employer for 50 years, specialist machining, laser cutting and fabrication, rural location
- Inspired to get energy costs under control
- Following our survey, installed:
 - 140kWp of solar PV
 - New heating fans for the factory floor
- Received £42,908 towards £122,595 of work
- Annual savings:
 - Over £13,000
 - 76 tonnes CO₂

