Energy in GCSE Geography Specifications Overview

Specification	Section	Specific details
AQA 'A'	Globalisation	The impact of world population growth, increased
	The increasing global demand for	wealth and technological advances on the global
	energy through sustainable and	demand for energy.
	non – sustainable developments	The social, economic and environmental impact of
		increased energy use.
	Sustainable development must	Ways of achieving sustainable development
	ensure that the environment is	through the use of renewable energy. A case study
	protected and that there are	of one type of renewable energy.
	sufficient resources for future	The importance of international directives on
	generations.	pollution control and carbon reducing initiatives.
		Ways of reducing the costs of globalisation from
		local (recycling/landfill) to global (carbon credits)
	Opportunities for use of GIS	Impact of extraction of energy resources, oilfields,
		irrigation, salt pans. Worldmapper.org to track
		import/exports, satellite imagery showing night
		time use of energy.
AQA 'B'	Energy in the 21 st Century	The demand for energy is linked to levels of
	How are energy use and development	development.
	linked?	Increasing demand raises questions about global
		energy security
	What environmental issues are	The exploitation and use of fossil fuels can create
	associated with using natural	environmental problems.
	resources as sources of energy?	Nuclear power may play an increasing role in
		energy supply.
		Renewable energy sources have costs and
		benefits.
		The use of fuelwood in developing countries is a
		threat to people and the environment.
	How can future energy demand be	Using energy more efficiently can play a part in
	met increasingly sustainably?	reducing demand.
		Developments in renewable energy technology
		will increase the opportunity to move towards a
		more sustainable energy future.
		Use of technology and new building techniques
		can reduce residential energy use.
		More energy-efficient transport systems will
		become an increasing priority.
Edexcel 'A'	A Wasteful World	Types of renewable and non-renewable fuels, the
	Sources and uses of energy	advantages and disadvantages of their production
	The advantages and disadvantages of	and use.
	renewable and non-renewable fuels.	
	The distributions of energy deficit and	Maps of the world showing nations which have
	energy surplus on a global scale	energy surplus/deficit.
	Management of energy usage and	How energy is being wasted.
	waste	-
	How energy is being wasted.	
	Carbon footprints for countries at	The calculation of carbon footprints for countries
	different levels of development	at different levels of development.

	Possible solutions to energy wastage in the UK on a domestic, local and national scale.	The possible solutions to energy wastage in the home or in schools, including energy efficiency in the use of building materials construction and technology. The solutions/policies which are being considered by local councils and industries, e.g. wind turbines
		for schools. Energy efficient housing estate at Milton Keynes. The Eastcroft District heating scheme in Nottingham.
Edexcel 'B'	Changing Cities There are tensions between cities as generators of wealth and as eco- friendly organisms.	Identify how cities develop by consuming energy and resources from other environments, and export their waste back to those and other locations. Assess the impact of urban activities, e.g. landfill, energy consumption on surrounding regions
	Cities have huge potential for reducing their eco-footprints.	Assess how one city is reducing its eco-footprint by reducing energy consumption and waste generation. Analyse the potential for more sustainable transport alternatives in their own local area.
OCR 'A'	No relevant energy content	
OCR 'B'	Energy a theme in Geographical Investigation only	
WJEC 'A'	Climate Change How can technology be used and people's lifestyles changed to reduce the impact of climate change?	Energy saving in the home, efficient public transport, solar furnaces, Kyoto, carbon trading, restricted aviation.
	What changes are likely to take place in energy supply and demand in Wales? How does Wales supply its current energy needs?	Mostly using fossil fuels. Imported coal and gas. Electricity from National grid mainly from coal, oil and gas fired power stations and some nuclear. Limited amounts of energy from renewable
	What future changes may take place in energy sources and in demand?	Increase in wind power generation; possibility of Severn barrage tidal scheme; renewed interest in nuclear expansion; bio fuel Port Talbot, continued use of coal, oil initiatives, technological changes.
	What conflicts of opinion are these changes to supply likely to introduce?	Debate re. effects of wind farms on wild life and scenic beauty, Severn barrage on estuarine environment; nuclear dangers and waste disposal, etc.
WIFC 'B'	No relevant energy content	