ney points to learn		ney points to rearn		15 Eliciby Resources
1.Fuel	Substance that we burn to release heat energy	7. Decommission	Take apart and make safe at the end of its life	Video Link Knowledge Organiser
	Stores chemical energy	8. Wind and wave power	Kinetic energy of the air/water	, ,
2. Fossil fuels	Coal, oil and gas		turns turbines	- Variations in demand - Start up times of power stations - Reliability problems - Capital costs vs. overall costs - Background
	Remains of ancient organisms.		Unreliable as both need wind	
	Millions of years to form.		Renewable	
	Are non-renewable Release carbon dioxide when burnt	9. Geothermal power	Use heat energy from deep underground instead of fuel	
3. Non-	Are used quicker than they are		Not available everywhere	
renewable	made. So will run out.		Renewable	
4. Renewable fuels	Made quicker than they are used. Will not run out	10. Hydroelectric and Tidal power	Water stored high up in dams then released to spin a turbine	
	These energy sources are renewable: Biofuel Wind and Wave Geothermal Hydroelectric and Tidal Solar Fuel made from living organisms eg vegetable oil, ethanol, wood		Very quick start-up time	
			Can destroy habitats for animals	
			Renewable	
		11. Solar power	Use light or heat energy from the Sun	It is hard to imagine a World without electricity. It reaches into every aspect of our lives. But where do we get the energy to make it from? Will they run out? Have
			Unreliable as needs sun	
	Are considered carbon-neutral because CO ₂ released is balanced by amount taken in by photosynthesis		Renewable	
			Energy stored in nucleus as nuclear energy. Uranium or Plutonium.	we got a backup plan? Additional
	Reliable – can even be used fossil	12. Nuclear fuel	Heat release in reactor core	To make electricity, we usually spin a turbine which we then attach to a generator. Making that turbine spin, is the problem The most common way is by burning fuels to boil water, then shooting the steam at the turbine. But there are issues with this, as you will find out.
	fuel power stations Reduces land available for food		High energy yield	
	growth		Very slow start-up time as	
	Renewable		potentially dangerous	
6. Burning fuels	Releases carbon dioxide which		Fuel and waste is radioactive	
	contributes to the greenhouse effect and global warming.		Very expensive to set up and decommission	

Key points to learn

P3 – Energy Resources

Key points to learn