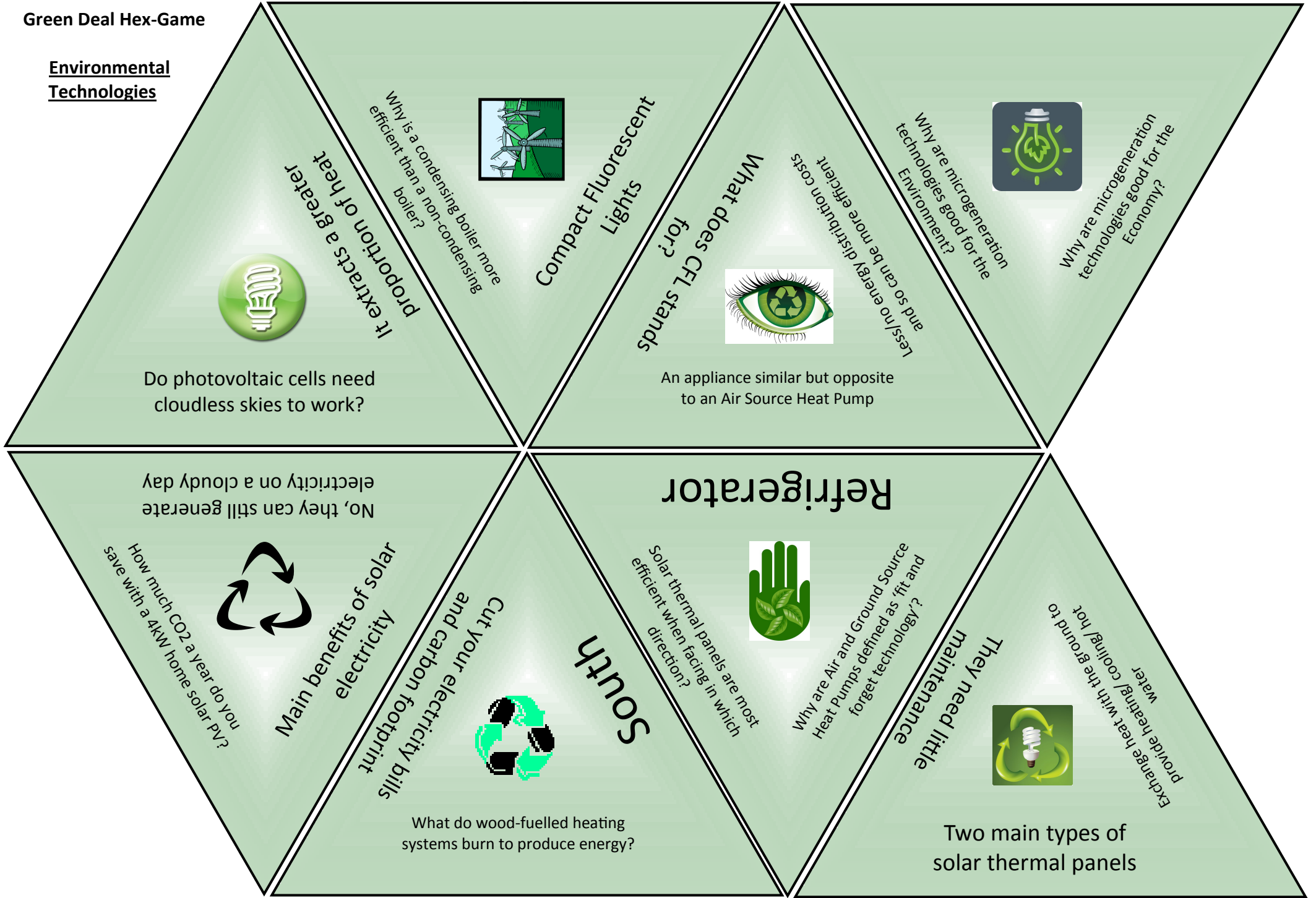


Green Deal Hex-Game

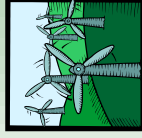
Environmental Technologies



Do photovoltaic cells need cloudless skies to work?

It extracts a greater proportion of heat

Why is a condensing boiler more efficient than a non-condensing boiler?



Compact Fluorescent Lights

What does CFL stands for?

An appliance similar but opposite to an Air Source Heat Pump



Less/no energy distribution costs and so can be more efficient

Why are microgeneration technologies good for the Environment?



Why are microgeneration technologies good for the Economy?



No, they can still generate electricity on a cloudy day

Main benefits of solar electricity

Cut your electricity bills and carbon footprint

How much CO2 a year do you save with a 4kW home solar PV?



What do wood-fuelled heating systems burn to produce energy?

South

Solar thermal panels are most efficient when facing in which direction?



Why are Air and Ground Source Heat Pumps defined as 'fit and forget technology'?

They need little maintenance

Two main types of solar thermal panels



Exchange heat with the ground to provide heating/cooling/hot water

Green Deal Hex-Game

Environmental Technologies

Domestic turbine



Most building-mounted turbines produce less electricity than pole-mounted ones.

False

Pole-mounted turbines cost less to install than building-mounted turbines.



Wood pellets, wood chips or logs

The main energy source used for domestic microgeneration?

Energy from sunlight



What is anaerobic digestion used for?

What does CHP stand for?



What is a CHP used for?

Flat plate systems, and evacuated tube systems

True



What are grey water supplies most commonly used for?

Flushing WC cisterns



Water passing through the turbine

In a micro-hydropower turbine system, what causes the turbine to rotate?



Producing bio-gas

Why is an inverter needed for PV panels?

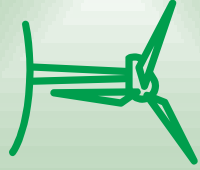
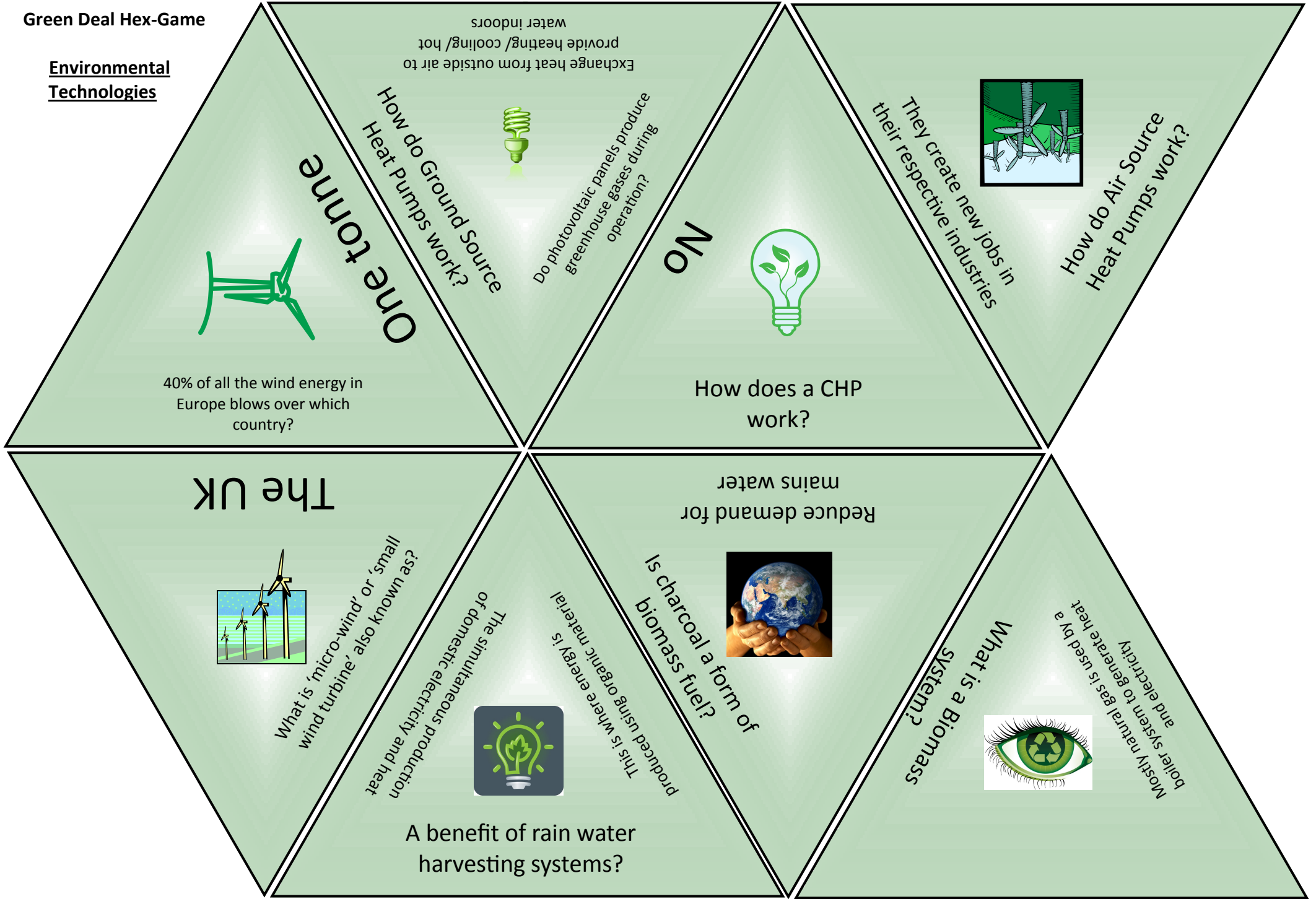
PV panels produce DC current; an inverter converts DC to AC



Yes (as it is made from wood)

Green Deal Hex-Game

Environmental Technologies



40% of all the wind energy in Europe blows over which country?

How do Ground Source Heat Pumps work?

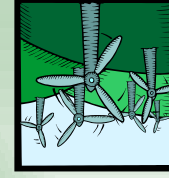


Do photovoltaic panels produce greenhouse gases during operation?

No



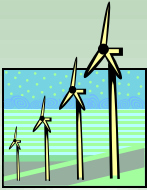
How does a CHP work?



They create new jobs in their respective industries

How do Air Source Heat Pumps work?

The UK



What is 'micro-wind' or 'small wind turbine' also known as?



The simultaneous production of domestic electricity and heat produced using organic material

A benefit of rain water harvesting systems?

This is where energy is produced using organic material

Is charcoal a form of biomass fuel?



Reduce demand for mains water

What is a Biomass system?



Mostly natural gas is used by a boiler system to generate heat and electricity