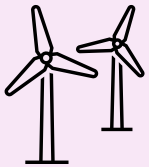
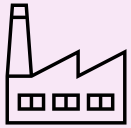
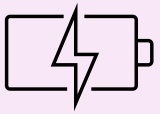
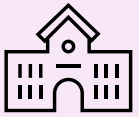
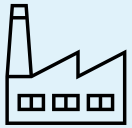
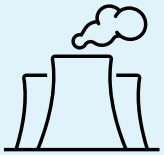
Are renewables more expensive than gas in generating UK electricity?

Renewables: No fuel costs ● unlimited supply ● Price stability ● High up-front costs

1- Find & secure suitable sites	2- Manufacture and construct systems	3- System integration	4- Transmission & distribution	5- Supply homes and businesses
				
Constrained by public acceptance	Panels/turbines imported	Additional grid costs to manage fluctuations in generation & consumption	Additional capacity to meet our needs	Average **10p/kWh** wholesale price **0.05 kg CO2e/kWh**

Gas: Ongoing fuel costs ● limited supply ● Price volatility ● Import dependence

1- Explore known reserves	2- Manufacture and construct systems	3- Transport gas	4- Burn gas	5-Transmission & distribution	6- Supply homes and businesses
					
New sites explored in remote parts	Rigs installed in increasingly challenging locations	Mainly shipped, some piped	Some additional plant to meet our needs	Additional capacity to meet our needs	Average **13p/kWh** wholesale price **0.25 kg CO2e/kWh**

Our Needs:

- more energy for economic growth.
- double renewable generation to decarbonise the current grid.
- add 2-3 times the generation and network capacity to electrify heating and transport.

Key Points:

- UK does not have enough gas, we would need to import a lot more to meet our needs.
- Renewable electricity costs less, even when including all additional costs.
- Renewable electricity produces fewer emissions and pollution.
- Wind and sun are unlimited free fuels!

If you'd like more information or want to challenge any of this, please contact the ACT Energy group.
www.actionclimateteignbridge.org

Electricity from Renewables or Gas. Which would you choose?