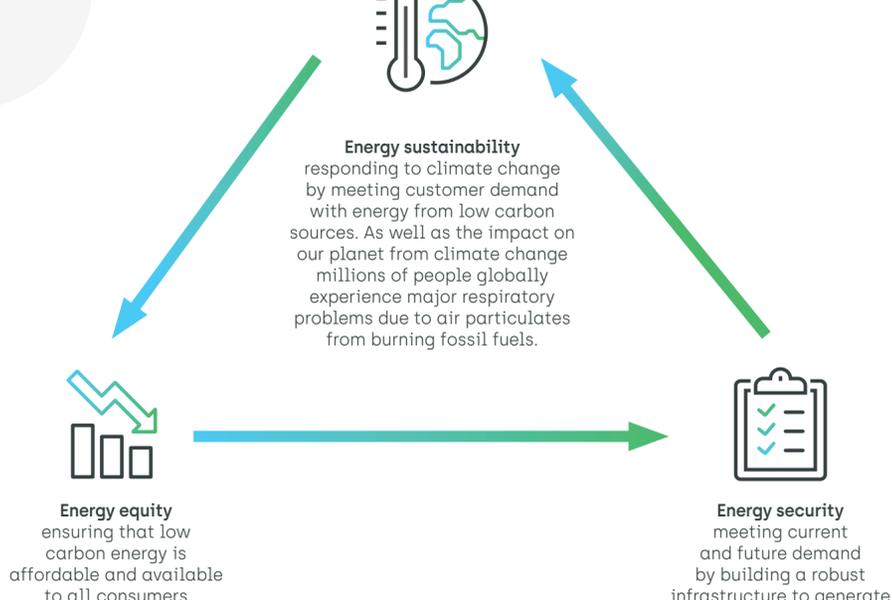


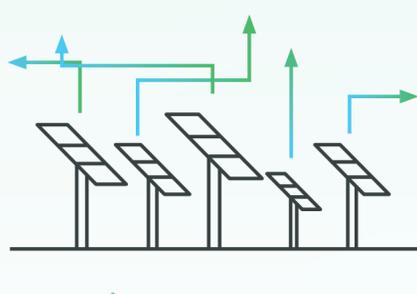
STEPPING UP TO THE NATIONAL ENERGY CHALLENGE

we want energy to be clean, secure and affordable

The energy trilemma

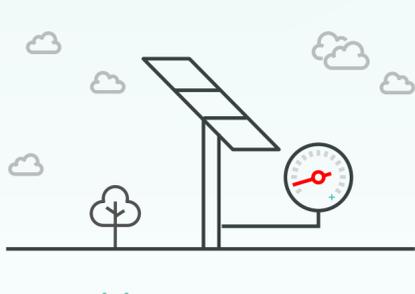


Which means we need to deploy new technologies to generate renewable energy. BUT generating renewable energy is different from traditional generation in two important ways:



✓ Opportunities

There are thousands of renewable energy generators, of all shapes and sizes, distributed throughout the country with electricity often generated close to where it is needed.



✗ Challenges

Energy generation from weather is unreliable. This means that ensuring that the energy available from solar panels or wind turbines equals the national energy requirement is more difficult than turning on or off traditional power stations.

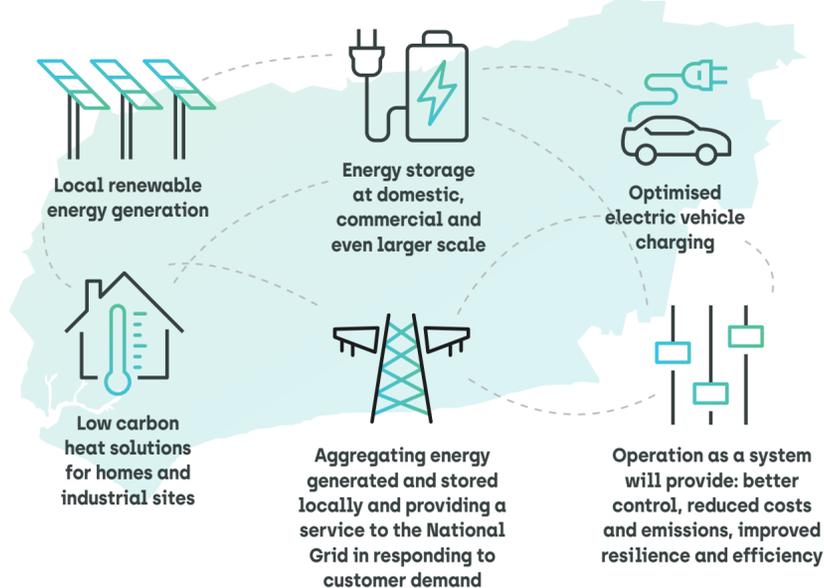
Smart Local Energy Systems (SLES)

Meet Smarthubs

One of the four government co-funded large-scale Smart Local Energy systems demonstration projects intended to help the UK learn more about how to create and support the growth of SLES. They will also discover what the full extent of their benefits may be.

It brings together innovative technology and business models to show how energy can be generated, stored and shared differently and in a way that can be scaled up to the national level.

The SmartHubs demonstrator project will include:



Who is involved?



Outcomes of the project

Locally

Decarbonisation, grid balancing benefits, behind-the meter savings and management of local constraints

Build prosperous and resilient communities and deliver cleaner, cheaper energy services

Nationally

Replicability
develop innovative business models and data and modelling work to give guidance on how other SLES can be replicated on a UK-wide scale.

Net Zero Goals
The UK has committed to reducing greenhouse gas emissions to **net zero by 2050**, SmartHubs will help scenario planning across the country.

Demonstrate
show how low carbon heat and transport can successfully interact with a smart local energy system.

Skills boost
Uncover how new combinations of technologies will generate demand for new skills and products in the UK.

