

# Introduction to NESO & SSEP

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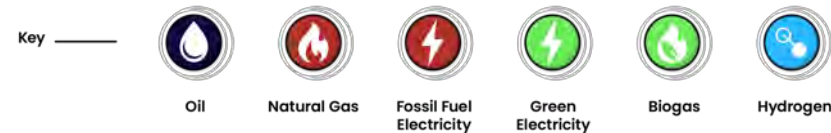
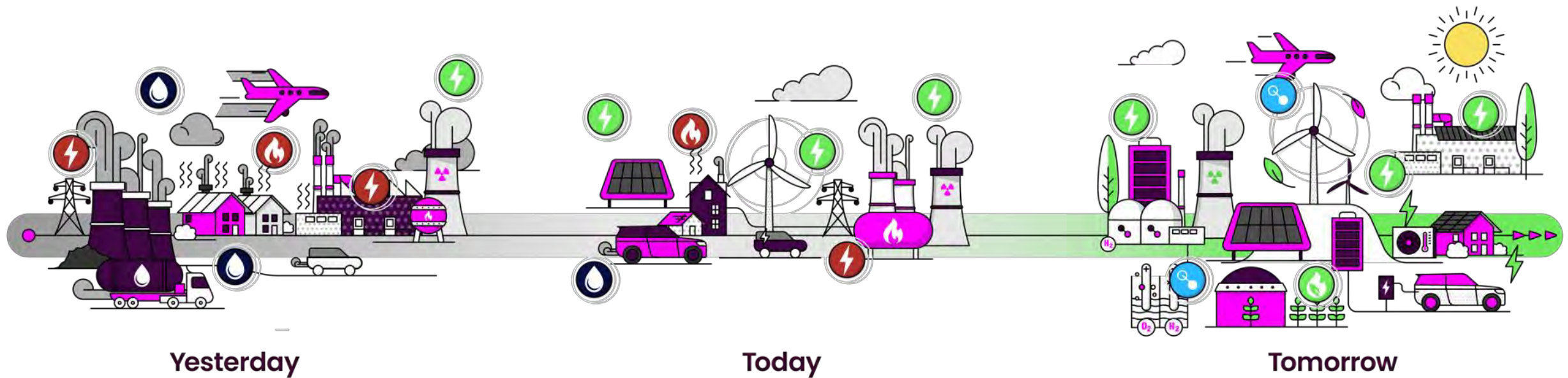
# Overview

1. About National Energy System Operator (NESO)
2. Introduction to strategic energy planning
3. Strategic Spatial Energy Plan (SSEP)



# A Changing Energy Landscape

We must work collectively at a local, regional and national scale to realise the benefits of the energy transition for Great Britain, and the people who live here.



# The National Energy System Operator

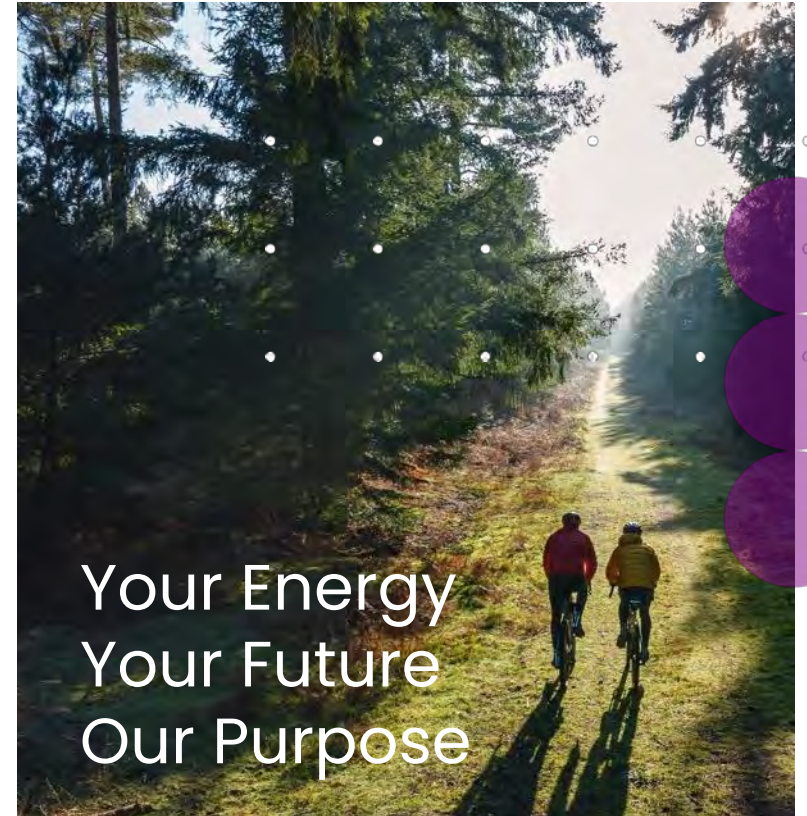
The National Energy System Operator, NESO, is an independent, public corporation at the centre of the energy system taking a whole system view to create a world where everyone has access to **reliable, clean and affordable energy**.

Our work will be the **catalyst for change** across the global community, forging the path to a **sustainable future for everyone**.

## The challenge

Tackling climate change is truly the challenge of our generation; addressing energy security, sustainability and affordability for everyone is at the forefront of the global agenda and drive to meet net zero.

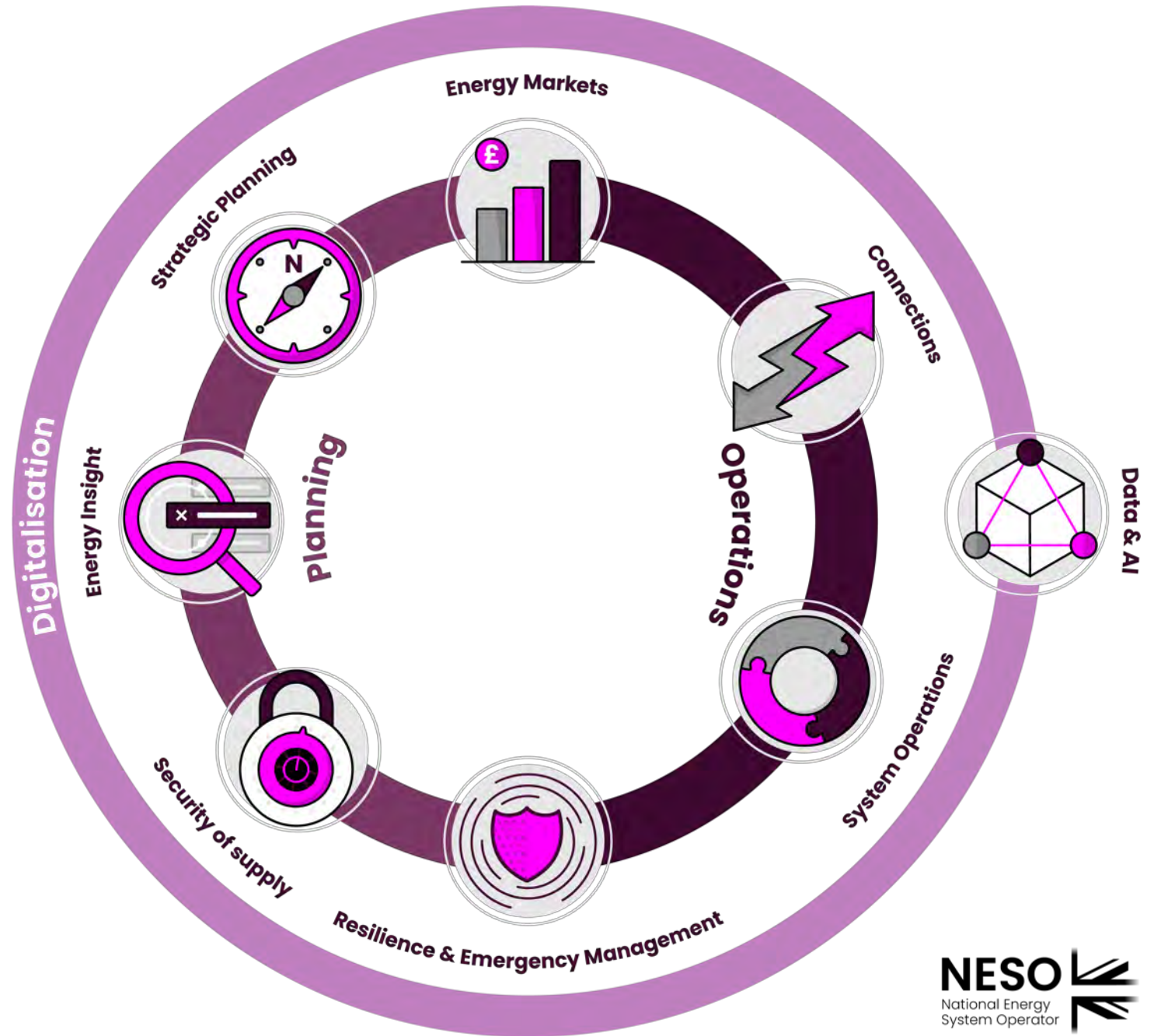
It is our job to transform the whole energy system to meet these challenges and transition to a low-carbon future, embracing new technologies and cleaner generation sources, always with the cost to the consumer in mind.



# What We Do

We bring together eight activities required to deliver the plans, markets and operations of the energy system of today and the future.

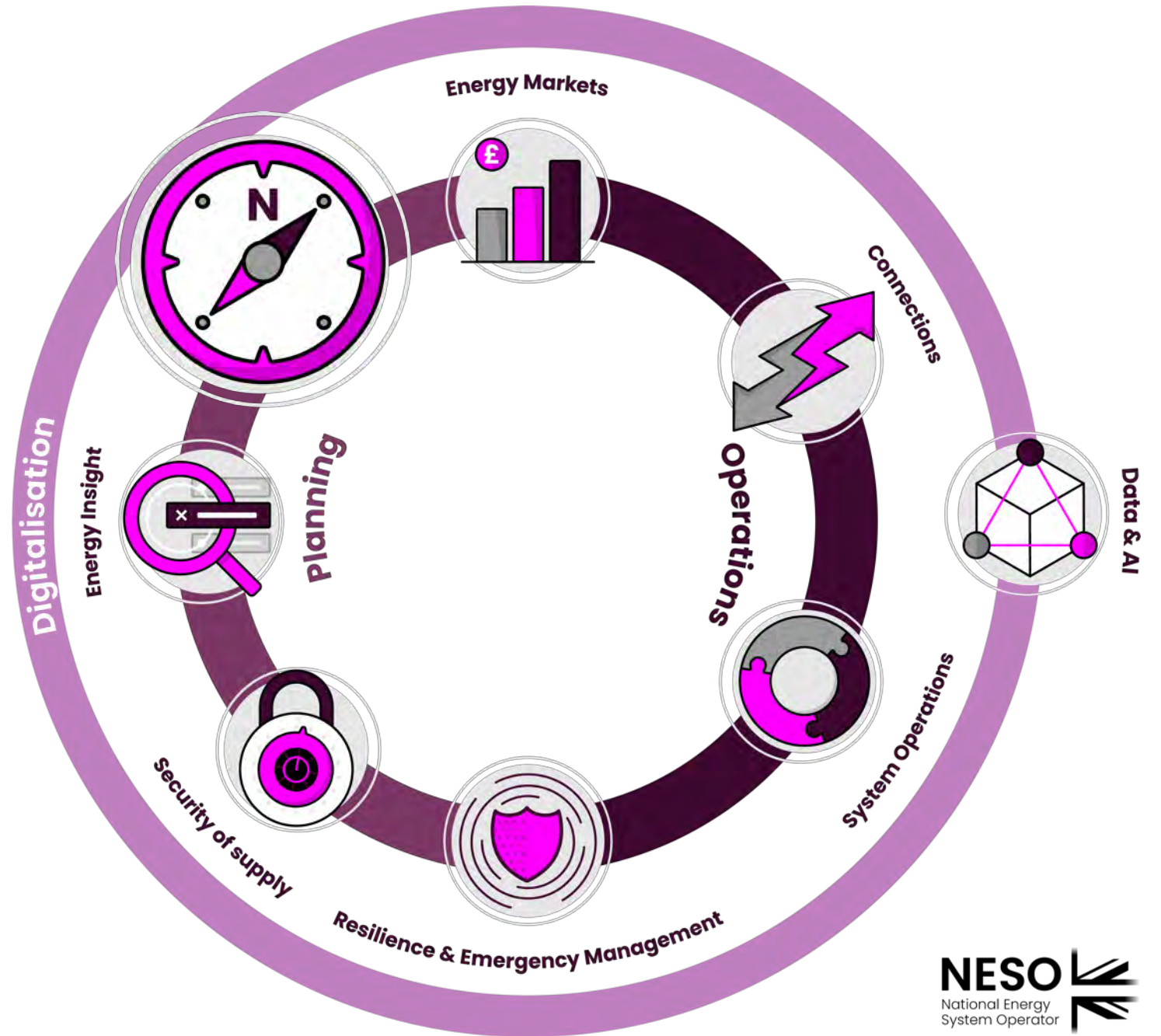
Bringing these activities together in one organisation encourages holistic thinking on the most cost-efficient and sustainable solutions to the needs of our customers.



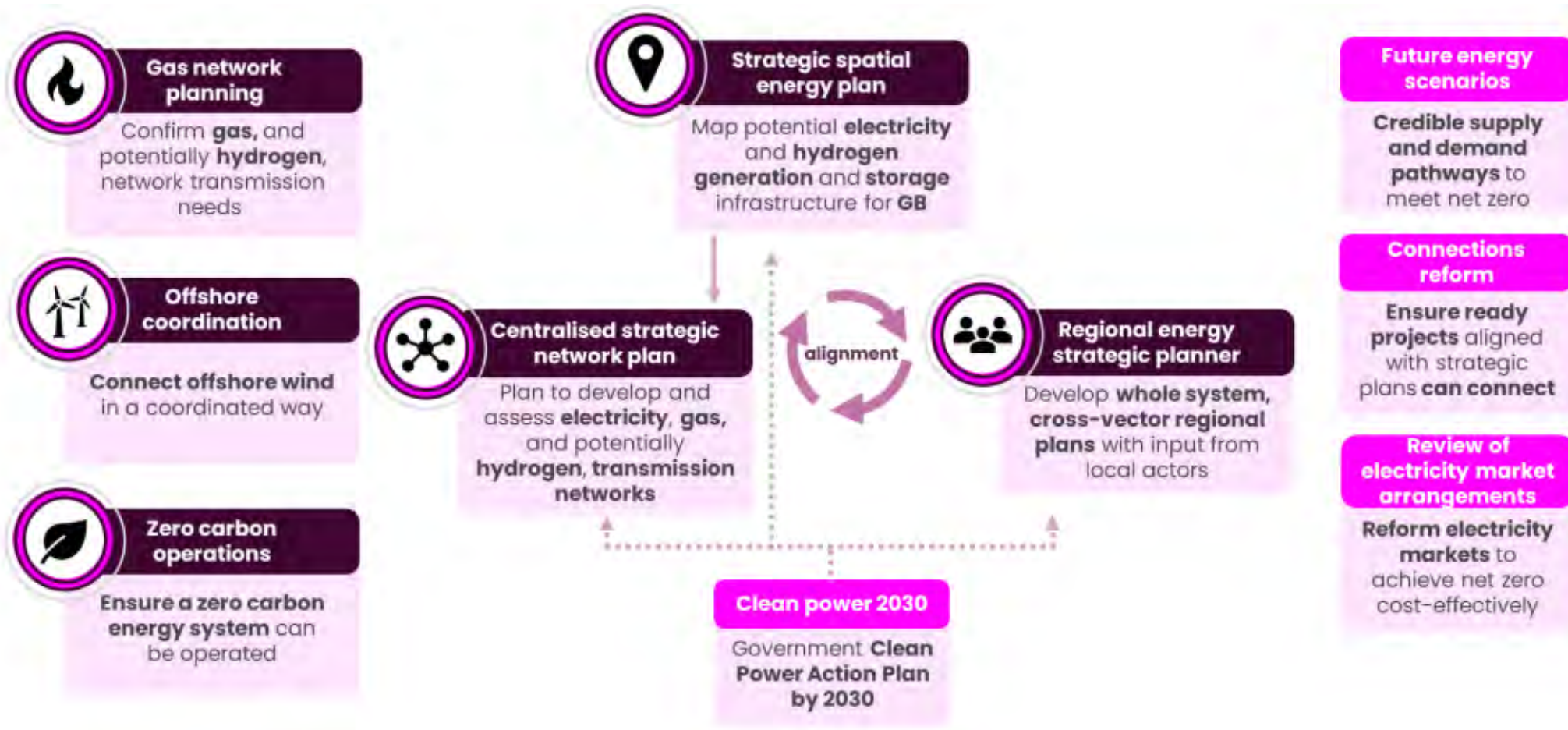
# What We Do

## Strategic Planning

We take a long-term approach to planning, that identifies whole energy system needs and ensures that the system can be designed and built accordingly.



# Strategic Energy Planning: Projects



# Strategic Spatial Energy Plan

NESO acts as a body independent of asset owners to coordinate system design and planning efforts across the energy system.

The Strategic Spatial Energy Plan (SSEP) will set out a long-term view of what energy sources are needed to reach net zero, and their most optimal locations across Great Britain on a zonal basis. This will consider from 2030 – 2050 and will build on Clean Power 2030.

- **What?** A GB-wide plan that will map potential zonal locations, quantities and types of electricity and hydrogen generation and storage over time, modelled across a range of plausible futures.
- **Why?** The SSEP will help accelerate and optimise the transition to clean, affordable and secure energy in Great Britain. It is part of a set of strategic energy plans that will help us achieve net zero by 2050. The SSEP was recommended in the Electricity Network Commissioner's 2023 Report.
- **Pathway Options:** We will develop options for how the energy system could look in the future. These will be presented to the UK Secretary of State of Energy Security and Net Zero, who will confirm to NESO which pathway should be taken forward for public consultation.
- **Commission:** We were jointly commissioned by UK, Scottish and Welsh governments in October to create an SSEP for the energy system, land and sea, across Great Britain.



# Creation of the SSEP





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