Public

Whole system CSNP methodology consultation overview

Hosted by Angus Paxton and Paul Wakeley

NESO
National Energy System Operator

Agenda

Join Q&A at Slido.com #3905 960

Presentation includes:

- NESO: Planning the energy system
- Whole system CSNP
- Next steps
- Q&A

NB – we'll record the presentation including Q&A

Please use Sli.do to ask questions
Code: 3905960

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NESO – Planning the whole system

The challenge

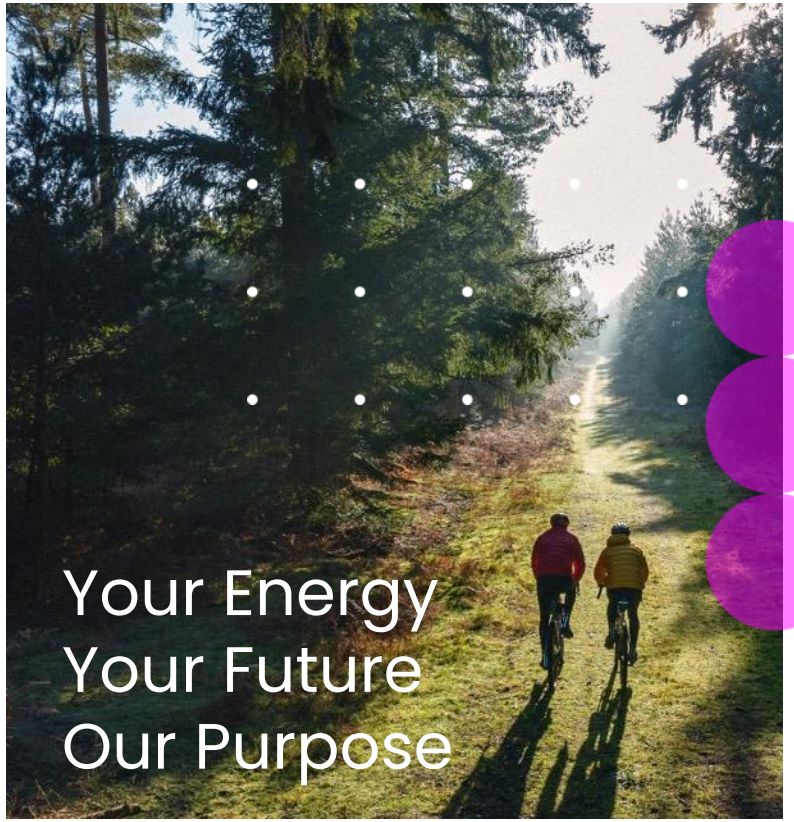
It is our job to transform the whole energy system, strategically planning the transition to a clean energy system, embracing new technologies and cleaner generation sources, always with the cost to the consumer in mind.

The opportunity

The way we use, store and source energy is evolving, and we have an opportunity in this period of change to shape an energy system that fosters economic growth and prosperity for Great Britain, creating jobs and building skills.

The plan

Having recently published how we intend to deliver spatial energy planning, we are now consulting on proposals for how transmission networks should be planning to transfer this energy to where it's needed over the next 25 years.



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Strategic energy planning (SEP)

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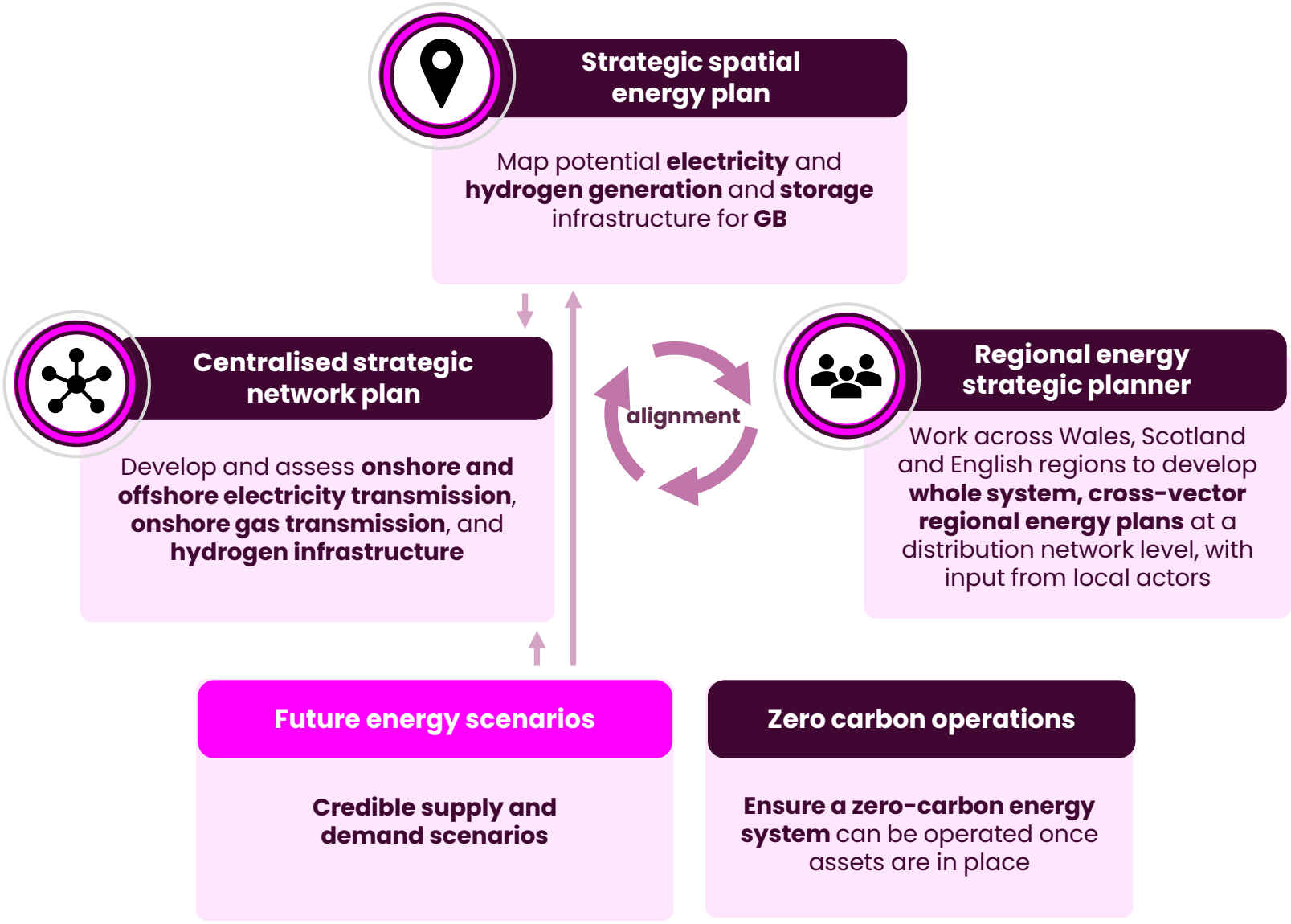

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Whole system CSNP

Today, our **energy networks** cover onshore and offshore **electricity transmission**, international **electricity interconnectors**, and **onshore gas**.

Electricity networks need to keep growing, so we must get ready to **support an expanded power system**.

While gas demand is likely to reduce, **we still need some supply**.

And there may be **more demand for hydrogen in future**, which will affect the electricity and gas networks.

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Ensure efficient energy network development by holistically planning the onshore and offshore electricity networks, and strategic gas and hydrogen networks.

Plan strategically, ahead of need, to enable investments required to ensure reliable, clean and affordable energy.

Accelerate delivery of network by providing certainty on the needs case and strategic parameters of options to support planning and regulatory processes.

Conduct a consistent, robust and transparent assessment on a broad range of network options considering multiple assessment criteria.

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Whole system framework

1	Drive	The Strategic Spatial Energy Plan (SSEP) will be used and complimented by the Future Energy Scenarios (FES), by the CSNP to plan the energy networks required for the wider transfer of electricity, gas, and hydrogen.
2	Identify	The CSNP will provide a view of the current capability and future needs of the networks to inform network options development for each energy vector.
3	Develop	Considering each vector's system requirements, a range of reinforcement options will be identified and put forward by NESO, Network Owners, and broader parties, as appropriate.
4	Appraise	Options will then be assessed across multiple assessment criteria to determine the best design across GB. Required reinforcements will progress into the delivery phase.
5	Plan publication	A draft plan will be published, and a consultation window will provide an opportunity to shape the final CSNP publication. Where required, this will include statutory consultations for environmental assessments.
6	Deliver	Following publication of the final CSNP, the required reinforcements will progress through detailed design, consenting and delivery. An ongoing change control process will ensure delivery in line with the plan.

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Governance structure

NESO has developed a three-tier structure consisting of a committee, a coordination group, and five sub-groups which will together form the CSNP governance structure.

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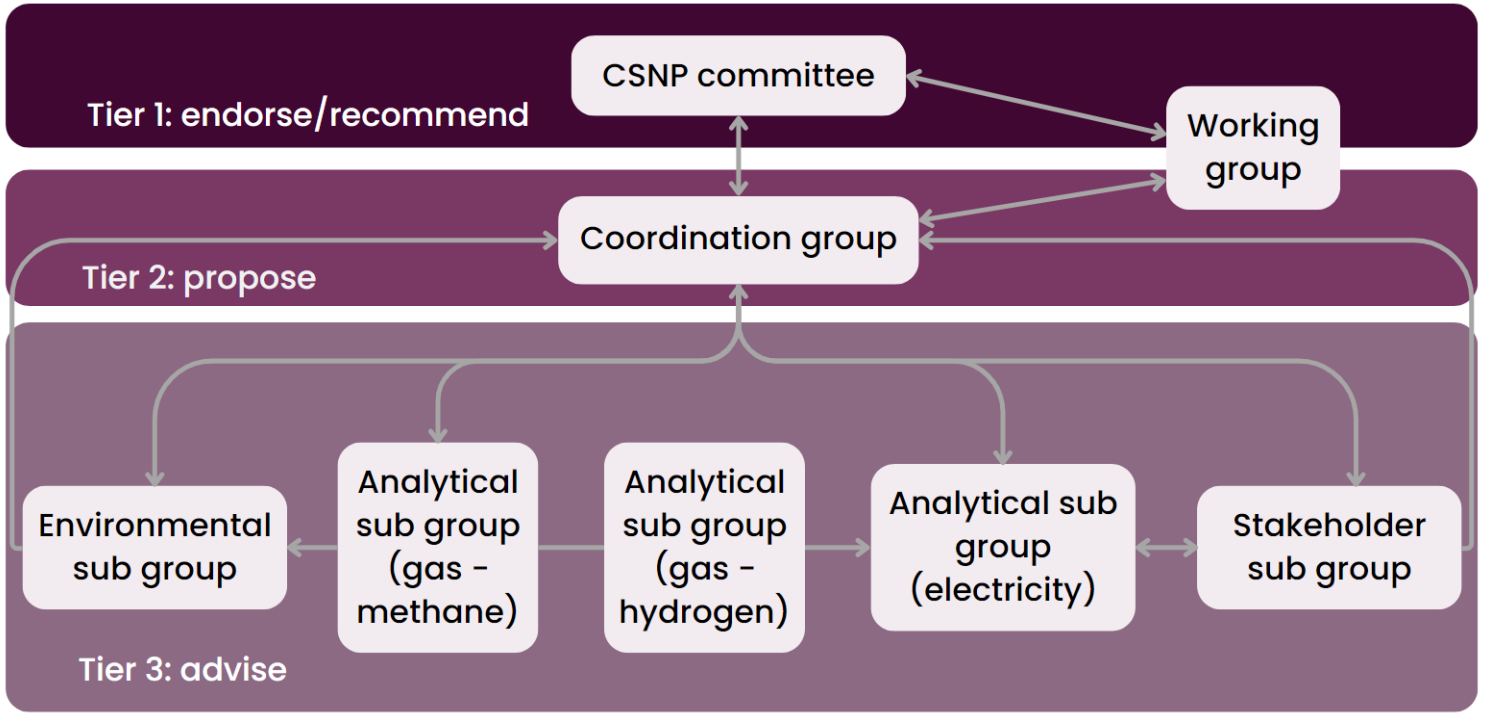

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Stakeholder engagement

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We will engage with stakeholders using the established Strategic Energy Planning (SEP) expert working groups. These groups include industry, societal interest, environmental, marine and land spatial planning.

They serve as an engagement channel that:

- facilitates networking among members
- provides a clear overview of the CSNP
- tests understanding
- gathers data and feedback
- ensures deliverable outputs
- offers opportunities for stakeholder review

Who will we engage with?

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Plan timeline

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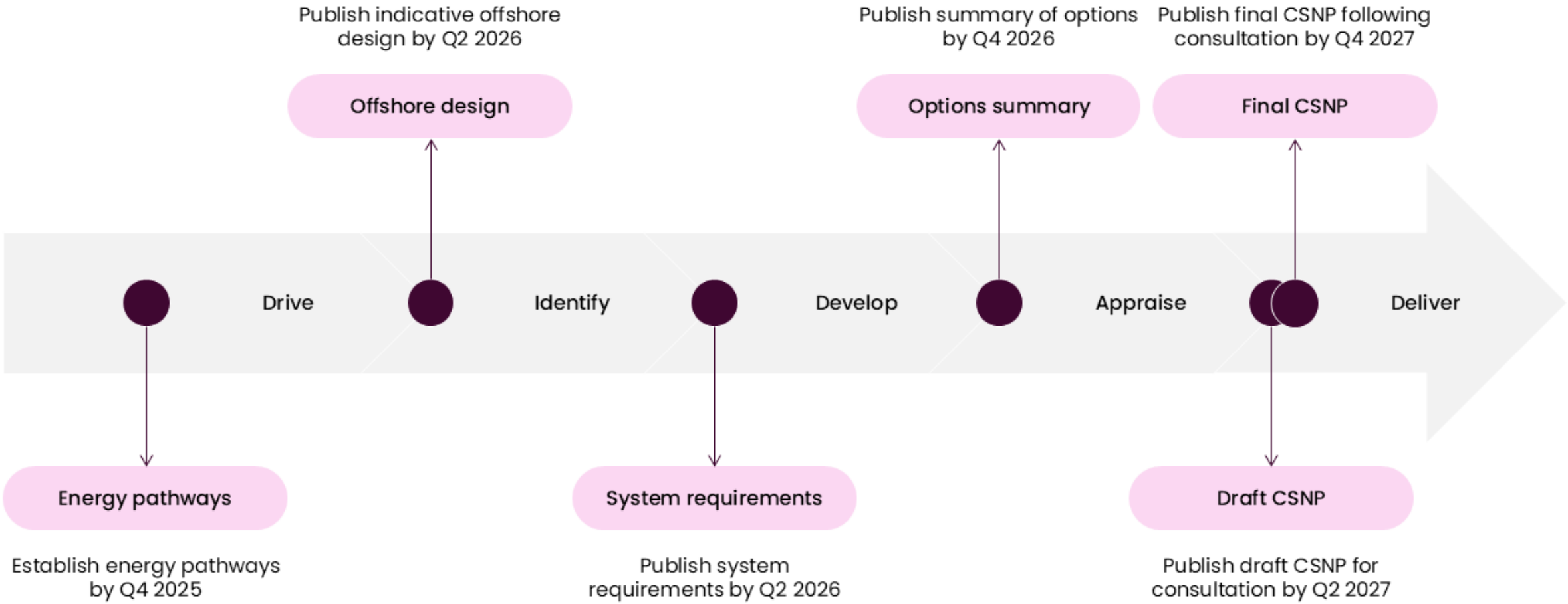

Immediate next steps

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Come along to our technical webinars to learn more about the specific aspects to the proposals.

Gas planning	22 July	10am
Electricity planning	22 July	2pm
Broadening participation	23 July	10am
Appraising network options	23 July	2pm
Offshore Coordination	24 July	10am
Hydrogen planning	24 July	2pm

Leave us consultation feedback through our CSNP surveys:

- Whole system network planning
- Electricity network planning
- Gas network planning
- Hydrogen network planning

Consultation closes

1 August 2025

→

Final methodology

30 September

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Question and answer

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