

A photograph of a forest path. The path is dirt and is flanked by large, mature trees with thick trunks and dense green foliage. The ground is covered with a carpet of purple bluebells and green grass. Sunlight filters through the trees, creating dappled shadows on the path. The overall scene is peaceful and natural.

Introduction to Resilience and Security Roles

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In October 2023 the Energy Act set the legislative framework for NESO as an organisation at the heart of the energy sector.



Apr 2022
DESNZ and Ofgem
decision to create
NESO

Oct 2023
Energy Act sets up
NESO in legislation

Summer 2024
Day 1 of NESO

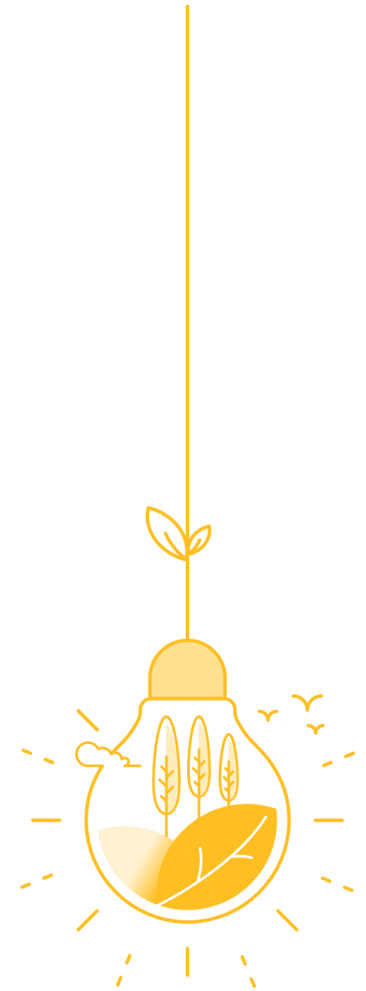
NESO

NESO will have responsibilities around delivering a net zero energy system that balances sustainability with affordability and security

 **Independent**

 **Whole System**

 **Serving GB**



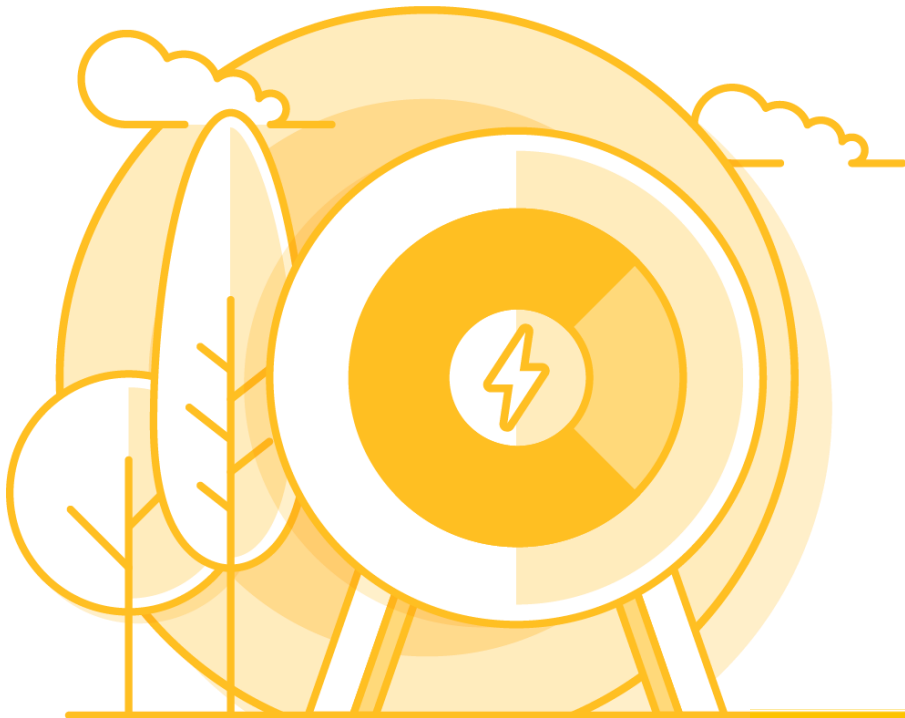
NESO is set up as a public corporation independent from industry and Government.



NESO will deliver significant additional value to society from Day 1.



The energy sector is evolving. So are the risks to system security and resilience.



- Significant change in the architecture of the energy system as we transition to net zero
- Increase in the level of interdependence between electricity and gas
- No single organisation focussed on understanding and mitigating whole system risks

NESO is well placed to help ensure system resilience and security.

- Extensive experience in electricity system resilience, emergencies, and security of supply
- A whole energy remit, and an ability to provide a joined up perspective on the whole system
- An independent body acting as the single entity delivering whole energy benefits and co-ordination to resilience and emergency management



Scope | On Day 1, we will perform activities across three overarching roles.

NESO will be responsible for cross-vector **energy resilience, readiness, post event learning, assessing security of supply, and cyber/physical security assessments** enabling NESO to help adopt a whole energy system response across energy vectors.



**Resilience,
Readiness and
Learning from
Events**



**Security
of
Supply**



**Physical
and Cyber
Security**

Scope | Resilience, Readiness and Learning from Events.



Resilience, Readiness and Learning from Events



Security of Supply



Physical and Cyber Security

ACTIVITIES

- Conduct whole energy resilience assessments working with industry partners and considering multiple energy vector interactions
- Conduct annual reviews of emergency processes and seasonal reviews of whole energy industry readiness
- Undertake significant engagement and gather data from impacted parties to provide analysis to DESNZ and Ofgem following events and emergencies

OUTCOMES

- NESO will identify risks to resilience and improvements, mitigations and best practice to reduce the likelihood and impact of those risks
- Through these assessments the work of NESO will help inform GB resilience goals, to be set by DESNZ, and NESO will design resilience standards to achieve those goals

Scope | Security of Supply.



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ACTIVITIES

- Undertake expert modelling to assess risks potential mitigations on security of supply
- Engage with stakeholders on our assumptions, modelling and scenarios included in our assessments
- Take on a new role to assess gas supply security considering the availability, reliability and deliverability of 'molecules'

OUTCOMES

- Independent expert advice and recommendations for secure energy supplies for consumers in Great Britain
- Insight and transparency on our recommendations through Seasonal Outlook Reports, Capacity Market, Resource Adequacy in the 2030s and a new annual report identifying risks and mitigations to gas supply security

Scope | Physical and Cyber Security.



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ACTIVITIES

- We will be providing subject matter expertise to advise and guide to DESNZ on the framework used to classify Critical National Infrastructure
- We will lead the data collection and consolidation of the CNI submissions and make recommendations to DESNZ
- We will undertake whole energy threat assessment to identify vulnerabilities to the energy system

OUTCOMES

- An updated view of all Critical National Infrastructure assets across industry
- Through these assessments the work of NESO will help inform DESNZ on key threats and vulnerabilities industry face

Here's what you can expect from us between now and Day 1.



We need your support to make NESO the success we all want it to be.

Resilience, Readiness and Learning from Events

We will need to work in close partnership with **relevant industry stakeholders, DESNZ, Ofgem,** and **other appropriate organisations like CCC** and **Met Office** to identify risks, gather inputs and develop mitigations, making recommendations to improve resilience to **government** and **Ofgem**

Security of Supply

To develop and deliver our new responsibilities we will engage widely with stakeholders including **DESNZ, Ofgem, NGT, industry experts like NSTA** and **infrastructure operators,** and **academia** to assess methodologies, identify supply risks and provide insight and recommend security of supply remediations

Physical and Cyber Security

We continue to refine the expectations for new licence conditions with **DESNZ,** and will need to work closely with **security services** as well as **infrastructure owners** and **operators** to facilitate the identification of sites, systems and assets that could be classified as critical national infrastructure



[Becoming the National Energy System Operator \(NESO\) | ESO \(nationalgrideso.com\)](https://nationalgrideso.com)

[Email enquiries: box.fso@nationalgrideso.com](mailto:box.fso@nationalgrideso.com)

Organisational Roadmap coming soon

Thank you for joining

