Appointment details

Capacity Market Panel of Technical Experts: Panel Member

Organisation

Capacity Market Panel of Technical Experts

Sponsor department

Department for Energy Security & Net Zero

Role type

Paid

Location

Remote

Sectors

Energy and Technology

Number of vacancies

5

Time commitment

Expected 20 days per annum

Length of term

Fixed Term contract for 36 months, in accordance with the terms of the contract.

Expected Timelines:

1. **Opening date**

17 July 2026

2. **Application deadline**

28 August 2026

3. **Sifting date**

4 September 2026

4. **Interviews expected between**

10-23 September 2026

5. **Anticipated appointment start date**

February 2027

Appointment descriptions

Energy security is a priority for the government, and the Capacity Market is government's main tool for ensuring continued security of electricity supply in Great Britain. The National Energy System Operator (NESO), as the scheme's Delivery Body, advises government on annual Capacity Market procurement volumes and related parameters, including technology-specific de-rating factors. Government takes the final decision on how much capacity to secure and sets the auction parameters – it also determines the final de-rating factor for interconnectors. To ensure these decisions are well-informed, NESO's modelling and advice are rigorously scrutinised by the Panel of Technical Experts (PTE), comprising leading external academic and sector specialists.

We are seeking to appoint a new Panel of Technical Experts (PTE) on fixed-term contracts following the conclusion of current Panel contracts in Spring 2027. The PTE is an independent advisory group, members of which are appointed to advise on technical aspects of the Capacity Market.

Person specification

The objectives of the Panel of Technical Experts:
The Panel's primary objectives are to provide impartial scrutiny on the analysis and modelling approach for NESO's annual Electricity Capacity Report. Through this process, the Panel assess the recommendations on the target capacity for the Capacity Market auctions to inform government decisions. This includes consideration of any internal biases within the process that could influence recommendations. The Panel's recommendations are published in an annual PTE Report. This role is a technical function and not a forum for policy commentary or for advising the government on its objectives for the Capacity Market or wider policy issues.

The roles of the Panel of Technical Experts:

The membership of the Panel is intended to provide a range of professional analytical skills, bringing diverse practical experiences of the electricity market and knowledge of a range of generation technologies that will ensure appropriate technical scrutiny of NESO's analysis. For the new Panel we are seeking to appoint five members with the following areas of expertise:

1. an Operational Researcher, Decision or Management Scientist;
2. an Economist;
3. an Electricity Sector Expert;
4. an Electricity Demand Expert; and
5. an Electricity Markets and Adequacy Specialist

One of the five Panel members will be selected to be the Chair. Candidates may apply for the role of Chair for the full three-year tenure as part of the application process. Further details on Chairing responsibilities and selection are detailed in the Role of Chair of the Panel section.

We anticipate that the Panel members will be drawn from academia and/or the energy sector, but applications will remain open to any suitably qualified candidate subject to appropriate conflict of interest checks.

Expected time commitment:
Panel members are expected to contribute around 20 days per year on average, with workload concentrated around report production periods between March and July.
The Chair position may be expected to work an additional two to four days per annum. The final PTE report deadline in July is fixed, and members must ensure they have enough time in the preceding weeks and months to contribute fully.

More specifically, the annual work of the Panel typically includes:

- From March to May, the PTE review and scrutinise NESO's Electricity Capacity Report methodology. During the core Electricity Capacity Report preparation period, we anticipate weekly engagement with NESO to help shape the report's development. Members typically work up to 5 – 7 days per month in this period;
- In June and July, the PTE produce the PTE report which will be published alongside the DESNZ decisions on Capacity Market auction parameters. Members typically work up to 5 – 7 days per month in this period; and
- In the remaining months of the year, the PTE engage across DESNZ, NESO and Ofgem on development projects for the Electricity Capacity Report. The Panel may also use the time available for supporting activities of relevance to their annual report or for ad-hoc Government asks. Time commitments are typically lower in this period, often around 1 – 2 days per month.

Ways of Working and Outputs:

- Production of the PTE's final report and delivery to DESNZ for publication alongside NESO's Electricity Capacity Report; This report provides a review of NESO's Electricity Capacity Report, makes recommendations on developments for NESO's modelling, and provides input toward the interconnector de-rating factor setting process. The annual PTE report will feed into government policy making and incremental improvements to NESO's modelling.
- Regular meetings held virtually, with potential for occasional meetings held at the DESNZ London office;
- Review of the Electricity Capacity Report modelling methodology and techniques used and underlying assumptions, including for the sensitivity and scenario analysis contained within NESO's modelling.
- Feedback and reports to DESNZ, NESO and Ofgem on Electricity Capacity Report modelling methodology; and
- Government may also request further advice and input from the Panel on policy issues related to the GB Capacity Market on an ad hoc basis, if necessary.

The Panel's conclusions do not have to reach a consensus with DESNZ, NESO or amongst all Panel members. However, where strongly divergent views exist, they must be clearly explained in the Panel's reports, with the Chair providing a final view on the divergence.

Role of Chair of the Panel:
DESNZ will appoint a member of the Panel to act as Panel Chair who will act as the main bridge between the Panel and Government. The Chair must be an experienced technical leader who can coordinate expert input to support senior decision makers.

The Chair is responsible for:

- The coordination of the PTE's work and views for the Electricity Capacity Report process;
- Overall ownership and oversight of the PTE Report, ensuring the final Report is clear, coherent and delivered in line with timeframes agreed with DESNZ;
- Management of any divergent Panel views, providing final views on divergences and ensuring that these are transparently presented to support decision-making;
- Ensuring the Panel's work remains within scope of the Terms of Reference; and
- Safeguarding the independence and impartiality of the Panel's outputs, supporting DESNZ confidence that the Panel's advice is independent and technically robust.

In the application process, applicants will be asked to indicate if they would like to apply for the role of Panel Chair. Interested candidates will be asked to:

- Detail how their experience, knowledge and expertise align to the requirements of the Chair role;
- Outline any chairing, or comparable leadership, experience in their application; and
- Provide a brief statement detailing how they would approach the additional role of Chair if successful.

The Panel will comprise five distinct, complimentary specialist roles, set out below.

1. Operational Researcher, Decision or Management Scientist

The Operational Researcher, Decision or Management Scientist will provide robust assessment of the modelling and analysis conducted by NESO to ensure that it aligns with best practice.

In addition to the behaviours, core skills, and knowledge detailed below, the holder of the role of Operational Researcher, Decision or Management Scientist will have experience of applying quantitative techniques to model electricity markets, including the GB electricity markets, to inform future decision-making under uncertainty.

<u>Essential Knowledge and Skillset</u>

- Experience in applying quantitative decision-making techniques under uncertainty, including scenario and sensitivity analysis;
- Deep understanding of best practice in statistics and risk analysis with applied experience; and
- Experience of explaining complicated trade-offs with incomplete information to non-technical audiences.

2. Economist

The Economist will provide technical expertise toward the interactions of the GB energy market with other European electricity markets.

In addition to the behaviours, core skills, and knowledge detailed below, the holder of the economist role will have a detailed technical understanding of applied microeconomics and applied energy economics.

Essential Knowledge and Skillset

- Experience in applied micro- and energy economics, including quantitative analysis to support decisions under uncertainty and investment appraisal;
- Experience of analysing GB electricity market interactions with other European electricity markets; and
- Understanding of the financial incentives for new build capacity and end-of-life capacity to generate electricity.

3. Electricity Sector Expert

The Electricity Sector Expert will provide insights into electricity capacity technologies and sector developments, including the supply and/or demand side of the GB electricity market. They will contribute insights around project financing and investment analysis of energy investment projects, including low carbon technologies.

In addition to the behaviours, core skills, and knowledge detailed below, the holder of the Electricity Sector Expert role will hold extensive and varied experience of working in the GB electricity industry and an ability to provide a stakeholder's perspective to panel discussions, to provide "real-world" experience of sector challenges and opportunities.

Essential Knowledge and Skillset

- Understanding and experience of; supply and demand side of the GB electricity market;
- Knowledge of low-carbon technologies and nascent electricity sector technologies; finance and investment analysis or industry understanding; flexibility and distributed generation; and
- Knowledge of other GB and international electricity subsidy and support schemes.

4. **Electricity Demand Forecasting Expert**

The Electricity Demand Forecasting Expert will provide insight into the evolution of demand in the GB electricity system.

In addition to the behaviours, core skills, and knowledge detailed below, the Electricity Demand Forecasting expert should have expertise focused on demand drivers of capacity adequacy over the short to medium term, including the macro effects of the economy and the changes likely from increased electrification, EVs, efficiency and demand-side responses.

Essential Knowledge and Skillset

- Experience of analysing medium term (1-8 year) electricity demand drivers in GB, including macro-economic factors, electrification and energy efficiency changes;
- Understanding of consumer-led flexibility technologies and electricity wider demand system developments and their impact on system demand requirements; and
- Understanding of how decarbonisation and the changing system will affect system adequacy and demand forecasts.

5. Electricity Markets and Adequacy Specialist

The Electricity Markets and Adequacy Specialist will provide insight into the GB and international electricity markets to scrutinise the future-facing analysis conducted by NESO, including assumptions around supply expectations and sector-specific risks and opportunities.

In addition to the behaviours, core skills, and knowledge detailed below, the holder of the Electricity Markets and Adequacy Specialist role will have strong practical experience of the GB and/or international markets, including knowledge of current market arrangements, capacity adequacy frameworks, and modelling approaches.

Essential Knowledge and Skillset

- Knowledge of capacity adequacy mechanisms in GB or internationally and/or modelling methodologies adequacy assessments;
- Understanding of Electricity Markets government policy programmes and their implications for capacity adequacy and investment signals; and
- Understanding of the interactions between the Capacity Market, wholesale electricity markets and other support schemes.

Behaviours required for all Panel members:

- **Teamworking:** Ability to work effectively with fellow Panel members, DESNZ, Ofgem and NESO, delivering written outputs on time and managing differing or conflicting views constructively;
- **Communication:** Strong written and oral communication skills to present information clearly to decision makers, and to explain complex findings in plain English for varied audiences, including in the published PTE reports;
- **Flexibility:** Capacity to manage diverse and sometimes ad-hoc tasks, and to work to tight deadlines;
- **Comfort with uncertainty:** Ability to work with imperfect data or methodologies, proposing new or alternative approaches where needed; and
- **Report quality:** Ensuring the final report is clear, focused, consistent and readable, despite contributions from multiple authors and the interconnected nature of issues across the energy market.

Core knowledge and skills required for all Panel members:

- Experience of strategic senior decision-making or advisory roles to support senior decision-making in energy markets;
- Experience of working in Panels and/or other decision-making processes providing advice to inform policy decisions;
- Experience of carrying out or scrutinising analysis and/or modelling of the GB and/or international electricity markets;
- Knowledge of the GB Capacity Market (its history and current challenges) and/or other capacity mechanisms;
- Knowledge of electricity systems, networks and interconnection, as well as an awareness of conventional and low-carbon generation technologies and operations (including emerging technologies and demand side response);
- An appreciation of the issues facing the GB electricity market over the next decade; and
- Awareness of UK and European energy policies and general policy awareness of topical issues.

Conflict of Interest:
As an independent expert, Panel members must ensure they can mitigate any conflicts of interest that could compromise the Panel's ability to operate impartially. Applicants must disclose any actual, potential, or perceived conflict of interest relating to the achievement of the Panel's objectives. This could include, but is not limited to, broader engagement with the Capacity Market or it's participants or with NESO. The applicant shall warrant that all disclosures are complete and accurate and acknowledges an ongoing obligation to notify DESNZ of any new conflicts on a quarterly basis. Where a conflict of interest has been declared, the applicant must propose and implement DESNZ agreed mitigation plans. These could include non-involvement in parts of the PTE discussion, the termination of relationships with third parties, or the establishment of additional guidance to govern how information should be handled. DESNZ will not progress applicants if mitigation plans cannot be agreed.

How to Apply

Please submit your full application by email to pte@energysecurity.gov.uk. **The closing date for applications is 28 August 2026 at 23:55**

All applications must include the following:

1. A **Curriculum Vitae (CV)** setting out your relevant career history, with key responsibilities and achievements tailored to the person specification.

2. A **Supporting Statement** (Up to 1,500 words) explaining which role you are applying for, and confirming whether you would also like to apply for the role of chair. For the specific PTE role you are applying for, please detail your motivation for applying and suitability for this role. Please provide evidence and outline how you consider your personal skills, knowledge and experience would help to deliver against the requirements of the Panel of Technical Experts, with reference to the criteria in the person specification.

As part of your supporting statement, please:

- Detail your proposed day rate for this position. This day rate will be considered as part of the overall recruitment process; and,
- Explain how you would be able to ensure your availability and work pragmatically and dynamically during the peak times of the Capacity Market cycle.

3. If you wish to apply for the role of **Chair** of the Panel, please provide a **separate supporting statement** (up to 500 words) setting out your suitability for the role of Chair. Your statement should:

- Explain how your experience, knowledge and expertise meet the requirements of the Chair role;
- Outline any chairing or comparable leadership experience relevant to the role; and
- Describe how you would approach the responsibilities of Chair and lead the Panel if appointed.

4. A **Supporting Conflicts of Interest Declaration** (attached at the end of this advert) explaining that you hold no conflicts of interest that could compromise the Panel's ability to operate impartially. Where any potential conflicts exist, you must provide a statement outlining how you propose to manage them. This Conflict of Interest Declaration will be used for assessment purposes and DESNZ may reach out to discuss any Declarations in more detail to support this process. A formal Declaration will be required should you be successful in your application.

All parts (CV, Supporting Statement and Conflicts of Interest Declaration) must be submitted by **23:55 28 August 2026** for your application to be considered complete. Applications received after this date will not be considered.

A market engagement event for all prospective candidates will be held during the application window to provide further information and to give an opportunity for candidates to ask questions. If you would like an invitation to this event, please email pte@energysecurity.gov.uk.

Successful candidates will be invited for interviews in line with the timelines on page 1 of the advert. The interviews will assess the suitability of the candidates including questions to assess whether you meet the criteria set out for the post for which you are applying. The assessment panel will also explore with you any potential conflicts of interest or any other issues arising from your personal and professional history which may impact on an appointment decision.

Following interviews, once the decision on the appointments has been made, all interviewed candidates will be advised of the outcome of their application.

To be eligible for the role candidates must have the right to work in the UK.

Successful applicants must complete baseline personnel security standard checks. Further information can be found here (opens in new window).

Department for Energy Security & Net Zero

Supplier Conflict of Interest Declaration

Contract name(s)	Panel of Technical Experts
Position applied for	
Applicant name	
Applicant contact details	
Applicant email address	
Applicant Contact Telephone number	
Registered Company address (if applicable)	

Please complete and sign the below declaration by selecting and completing Option 1 or Option 2. Please see Annex 1 for an explanation of the term "**Conflicts of Interest**".

Please identify any actual or perceived Conflict of Interest and explain how these Conflicts of Interest would be managed / mitigated. If you have any doubts as to whether there exists an interest which may give rise to a conflict, these doubts must also be disclosed.

DESNZ will consider whether the Conflict of Interest causes concern and what action (if any) should be taken. A declaration of a Conflict of Interest may prevent an individual from working on a contract. However, a declaration of a Conflict of Interest will not automatically mean that an individual cannot work on the contract. It is vital that any interest or conflict is declared so it can be considered openly and managed in the most appropriate manner.

If the situation changes for you related to the delivery of the contract in terms of Conflicts of Interest, you must notify DESNZ straight away.

Department for Energy Security & Net Zero

Option 1 – No Conflict of Interest

I have nothing to declare with respect to any actual or perceived Conflict of Interest which exists at present or which may arise during the lifetime of this contract(s).

I also declare that DESNZ will be informed immediately, should any circumstances change in any way that affects this declaration.

Signed by:

Signature:

Name:

Position

Date

Department for Energy Security & Net Zero

Option 2 – Conflict of Interest

I am aware of a Conflict of Interest relating to my involvement in this contract(s). The nature of this Conflict of Interest is described below together with an explanation of how the Conflict(s) of Interest would be managed / mitigated.

Details of Conflict of Interest

I wish to declare the following Conflict(s) of Interest:

Name of Individual (if appropriate)	**Nature of Conflict of Interest**	**Proposed Mitigating Actions**

Where a Conflict of Interest has been declared, please clearly outline how any conflict of interest would be managed/mitigated.

Signed by:

Signature:

Name:

Position

Date

Department for Energy Security & Net Zero

Annex 1

Conflicts of Interest

Conflicts of Interest include any:

- Any actual or perceived Conflict of Interest.
- Conflicts of Interest which exist at present, or which may arise during the lifetime of this contract(s).

These may include (but are not restricted to);

- A professional or personal interest in the outcome of this research
- For evaluation projects, a close working, governance, or commercial involvement in the project under evaluation
- Current or past employment with relevant organisations
- Payment (cash or other) received or likely to be received from relevant organisations for goods or services provided (including consulting or advisory fees)
- Gifts or entertainment received from relevant organisations
- Shareholdings (excluding those within unit trusts, pension funds etc) in relevant organisations
- Close personal relationship or friendships with individuals employed by or otherwise closely associated with relevant organisations

All of the above apply both to the individual signing this form and their close family / friends / partners etc.

If your situation changes during the project in terms of interests or conflicts, you must notify the Department straight away.

Relevant Organisations and individuals to be considered as part of this Conflict of Interest Declaration include: Subcontractors, Tenderers and Advisers/Consultants as defined below.

- Suppliers means any company (incorporated or unincorporated), partnership, business or individual that is or may be a supplier or potential supplier of services or goods to DESNZ;
- Subcontractors means any company (incorporated or unincorporated), partnership, business or individual that is or may be subcontracted to deliver the services or goods to DESNZ;
- Tenderers means any company (incorporated or unincorporated), partnership, business or individual that is or may be interested in participating or participates in in the procurement process(es) undertaken by ESNZ as part of the contract(s). This includes tendering as prime contractor, subcontractor or as part of a consortium or other group of economic operators.
- Advisers/Consultants means any adviser or other related parties of Suppliers, Subcontractors and/or Tenderers.