

Publicly Available

Voltage 2026 Connections Approach

Network Services Procurement

(Previously known as Pathfinders)

19 December 2023

Version 2



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Version Control

Version Number	Description	Date
V1	First publication at EOI for Voltage 2026. This document is subject to changes/updates between EOI and Invitation To Tender (ITT) stages of the tender.	6 October 2023
V2	Updated publication at ITT stage for Voltage 2026. <ul style="list-style-type: none"> • The Target Mvar in Option A has been updated following the completion of the feasibility studies for the reserved bay. • Minor amend on page 9 to confirm a date which was not initially set at EOI stage. The date is highlighted in yellow for ease. • Clarification updates included to reflect that the two-step connections process will be ending in November 2023. 	19 December 2023

Purpose of this document

This document outlines the connections requirements for this Network Services Procurement Voltage 2026 tender ('Voltage 2026' herein) and the approach being followed to enable these requirements.

This document will:

- Explain the connections requirements for Voltage 2026
- Explain why this approach has been selected
- Provide details on the connection approach and what tender participants can expect

Please note that the connections approach outlined in this document is **only** being used to facilitate the Voltage 2026 tender. National Grid Electricity System Operator (ESO) has collaborated with the relevant TO, and held discussions with OFGEM, to enable this process.

What are the connections requirements for Voltage 2026?

Each solution that is proposed by a bidder within their tender submission will need to demonstrate that **one of the four following** connections requirements are satisfied:

- A. **Confirm that the proposed solution will connect via the reserved bay; or**
- B. **Demonstrate that an existing connection can fully accommodate the proposed solution 'as-is'; or**
- C. **Demonstrate that an existing connection has a full modification application (mod-app) offer that can fully accommodate the proposed solution; or**
- D. **Demonstrate that the bidder has a full connection offer for a new connection that can accommodate the proposed solution and can be entered into if the party is successful in the tender.**

Please see section 3 for details on each of the four possible connection requirements bidders can choose to meet.

Details of the Voltage 2026 connection requirements

A. Confirm that the proposed solution will connect via the reserved bay

ESO has instructed the Transmission Owner (TO) to reserve a substation bay pre-emptively for use in this Voltage 2026 tender process. Bidders can choose to rely on the reserved bay if they wish.

If bidders participate through this connection option:

- Having a connection agreement in place is not a requirement for participating in the tender such that the bidder confirms/demonstrates in their tender submission they plan to connect via the reserved bay.
- Bidders will not have to submit a connection application for the reserved bay until after they have received confirmation that they have been successful in the tender.

The bay reserved by the ESO is listed below in Table 1.

Table 1 – Reserved bay

Site	Region	No. of connection points secured	MVar Capacity (Updated for V2)	Associated contingencies/risks
Neepsend 275kV	North	1	Single Unit: 158Mvar Banked Parallel Units: 322Mvar - subject to observing the single unit threshold of 158Mvar with individual operational switching capability	Non-contingent

Please note Table 1 has been updated since the EOI stage and is still subject to change from time to time. ESO assume no liability for any future change to this table.

The reserved bay was identified based on a balance of the following criteria:

1. Technical effectiveness of substations in the region(s) of need at meeting the Voltage 2026 requirements
2. Whether any substation sites in the region(s) of need had a credible connection opportunity, considering other sites within the regions of need and the current connection background (see Appendix 1 for details provided by TO)
3. Whether there is non-operational land available at the substation sites within the region(s) of need and to what extent (see Appendix 1 for details provided by the TO).

Please note ESO attempted to secure more than one bay. However, due to network congestion this provided challenging. ESO explored 44 substations with the TO (see Appendix 1 for details) and the opportunity at Neepsend 275kV is the only one to have been identified across the two regions of need.

Further details on this connection requirement

- Prior to the ITT stage the TO conducted a detailed feasibility study on the reserved bay and as a result produced a Connection Feasibility Report (henceforth referred to as the ‘Report’). This Report will provide an indicative view of the connection date, transmission infrastructure costs and site details associated with the reserved bay (see Appendix 2 for more details). Bidders should note that this information will be

based on indicative desktop assessments and that the TO will not conduct any site-based investigations to inform the Report¹.

- The Report will be published to all bidders during the Invitation to Tender (ITT) Stage. Bidders should use the Report to inform their tender submission, for example, to understand indicative cost profiles and indicative connection lead times².
- **CONNECTION APPLICATIONS SHOULD NOT BE MADE FOR THE RESERVED BAY PRIOR TO CONTRACT AWARD.** If this occurs, such applications will be treated as a regular connections application and will not receive an offer for the reserved bay.
- Due to this tender being for the procurement of reactive power absorption services, megawatt (MW) constraints on the network and the recently ended two-stage connection offer process, MW capacity is not included within the reservation.
 - Should bidders wish to have MW capacity at a reserved bay, they would be required to submit a modification application (mod-app) for their connection agreement through the usual mod-app process once they have fully entered their connection agreement for the reserved bay.
 - Any mod-app submitted for MW capacity must not impact the bidder's ability to deliver their Voltage 2026 contract.
 - It is understood that these connections may be treated as staged connection, where the earlier stage allows connection for provision of MVar, followed by a later stage that will allow MW export. When this MW export is possible is unknown at this stage and will only be determined following the mod-app being made. Any future MW export mod-app result must not affect the provision of the Voltage 2026 service.
- Due to this tender being for the procurement of reactive power absorption services, and the recently ended two-stage connection offer process, fault level capacity is not included within the reservation.
 - Should bidders wish to have fault level at a reserved bay, they would be required to mod-app their connection agreement for the reserved bay through the usual mod-app process once they hold a countersigned connection agreement.
 - Any mod-app submitted for fault level capability must not impact the bidder's ability to deliver their Voltage 2026 contract.
 - As above it is possible that these connections may be treated as a staged connection.
 - When fault level MVA capability is possible is currently unknown and will only be determined following the mod-app being made. Any future fault level mod-app result must not affect the provision of the Voltage 2026 service.
- The connection point that has been reserved will be treated as unavailable and therefore in the contracted background for any subsequent connection application. How this materialises in subsequent connection offers made is subject to the connections process and beyond the scope of the Voltage 2026 tender.

Is there a risk that the bay might not be used by Voltage 2026 solutions?

There is a potential that the solutions at the end of the Voltage 2026 tender do not rely on the reserved bay, if instead they meet one of the other three connection requirements. If this is the case, the bay will be released

¹ Neither ESO nor any other companies in the National Grid plc group, nor any directors or employees of any such company shall be liable for any error or misstatement or opinion on which the recipient of this document relies or seeks to rely other than fraudulent misstatement or fraudulent misrepresentation and does not accept any responsibility for any use which is made of the information or the document or (to the extent permitted by law) for any damages or losses incurred.

² The details of the report are indicative and therefore subject to change. ESO nor any other companies in the National Grid plc group shall be help liable for any change to these details.

from the reservation. Where possible any other connection offers made based on this being in the background may be reviewed in accordance with the normal connection process.

Is there a risk that the ESO reserved bay cannot facilitate the size of the successful solution?

Solutions proposed at the reserved bay should be within the capacity range that has been reserved to avoid this. Any proposed solutions beyond the reserved capacity range at the reserved bay will be rejected.

If a bidder wishes to have any additional capacity beyond what has been allocated to the reserved bays, then following success in the tender and entering the connection agreement for the reserved bay, the bidder would be required to seek a mod-app for any additional capacity they require. Any mod-apps for additional capacity or future mod-apps associated with the additional capacity should not impact the bidder's ability to deliver their successful Voltage 2026 solution, and the cost of any such mod-apps will be borne by the bidder.

ESO reserve the right to review connection applications for reserved bays to ensure they comply with these tender rules.

What if a successful tendered solution and its connection application is fundamentally different to what has been reserved?

Any connection application made for reserved bays by a successful bidder should be in line with what was tendered and within the capacity reserved.

If a bidder wishes to have any additional capacity beyond what has been allocated to the reserved bays, then following success in the tender and entering the connection agreement for the reserved bay, the bidder would be required to seek a mod-app for any additional capacity they require. Such mod-apps must not impact the bidder's ability to deliver their successful solution, and the cost of any such mod-apps will be borne by the bidder.

ESO reserve the right to review connection applications for reserved bays to ensure they comply with these tender rules.

Do bidders have to use a reserved bay?

No, bidders can elect to meet one of the alternative three connection requirements. See the following sections for more details.

B. Demonstrate that an existing connection can fully accommodate the proposed solution 'as-is'

Bidders who are already connected (or have a connection agreement and will be connected) at a substation within the region(s) of need can choose to meet this requirement. In this option, the existing connection agreement must enable the tendered solution to be delivered in full and on time without requirement for a mod-app.

It does not matter whether this substation is the same substation where ESO have reserved a bay.

If bidders participate based on this connection option, then these bidders will be required to evidence the countersigned connection agreement as part of their tender submission and confirm that they have confirmed with the ESO (through connection account managers as appropriate) that a mod-app is not required to enable the solution.

How will a bidder know if they require a modification application (mod-app)?

If there is any change to the original connection application or DRC data submitted for the connection, e.g., to the MW capability, the Mvar capability, the fault level, or any change to the equipment, then it is likely that a modification application is required. Bidders should discuss their proposals with their ESO/TO connections managers to confirm whether they require a modification application in writing. This should be done prior to returning any tender submissions in response to the ITT to ensure bidders are able to meet the connection requirements. If you have any queries about this, please contact the ESO Voltage 2026 tender team.

C. Demonstrate that an existing connection has a full modification application (mod-app) offer that can fully accommodate the proposed solution

Bidders who are already connected (or have a connection agreement and will be connected) within the regions of need but require a mod-app to enable the tendered solution to be delivered in full can choose to meet this requirement.

It does not matter whether this substation is the same substation where ESO have reserved a bay.

If bidders participate through this connection option, then these bidders will be required to evidence both the original connection agreement and the mod-app offer as part of their tender submission to confirm the tendered solution is enabled in full.

Please note the mod-app offer being relied upon needs to be valid for acceptance i.e., it cannot have expired. Due to how the tender timeline for Voltage 2026 compares to the duration of the connection process for some bidders this might mean bidders need to accept / agree the mod-app offers prior to the publication of the tender results. How this is managed is at the bidder's discretion such that the connection offer is still valid upon signature of the Voltage 2026 contract.

Please note that in the event a mod-app is required then bidders will be required to enter the connections process, such that system studies and assessments of the application can be completed (in line with the two-step process that was in place and its associated rules and exemptions). Under this route to market, bidders will need to have gone through this process and received an offer that meets the criteria set out in this document.

Any bidder seeking a mod-app should be aware of the two-stage offer process which was in place between March – November 2023, which has recently ended, to connect to the transmission network in England and Wales, and the relevant rules and guidance that were in place for how the two-step process will impact this Voltage Pathfinder. This information should be used to inform understanding about the duration of the connection application process when developing programmes. Please be aware that a 1st Stage Offer will not be considered satisfactory evidence of a valid connection offer as this is subject to change in the 2nd Stage Offer. For more information on this process please visit:

- <https://www.nationalgrideso.com/industry-information/connections/two-step-offer-process>
- <https://www.nationalgrideso.com/industry-information/connections>

V2 Clarification: Please be aware that in November 2023 it was announced that the two-step process would be ending, and any applications received after this date would receive a full 'normal' offer, it is understood that any parties impacted by the two-step process prior to this should receive their second step offers by March 2024³.

How will a bidder know if they require a modification application?

If there is any change to the original connection application or DRC data submitted for the connection, e.g., to the MW capability, the Mvar capability, the fault level, or any change to the equipment, then it is likely that a modification application is required. Bidders should discuss their proposals with their ESO connections managers to understand whether they require a modification application. This should be done and evidenced in writing prior to returning any tender submissions in response to the ITT to ensure bidders are able to meet the connection requirements. If you have any queries about this, please contact the ESO Voltage 2026 tender team.

D. Demonstrate that the bidder has a full connection offer for a new connection that can accommodate the proposed solution and can be entered into if the party is successful in the tender.

Bidders who do not have an existing connection for their solution can choose to meet the connection criteria by independently going through the connection process to secure a connection offer at one of the substations within the regions of need.

The substation that the bidder chooses under this option could be the same substation where ESO have reserved a bay.

If bidders participate through this connection option, then these bidders will be required to evidence the connection offer that they have received in writing and confirm that the new connection enables the proposed solution. Please note the offer being relied upon needs to be valid for acceptance i.e., it cannot have expired. Due to how the tender timeline for Voltage 2026 compares to the duration of the connection process for some bidders this might mean bidders need to accept / agree connection offers prior to the publication of the tender results. How this is managed is at the bidder's discretion such that the connection offer is still valid upon signature of the Voltage 2026 contract.

By choosing to participate through this connection option, bidders will be required to enter the connections process, such that system studies and assessments of the application can be completed (in line with the two-step process and its associated rules and exemptions). The system studies and assessments of the connection application will consider what is in the contracted background and previous offers made, including what has already been held back for Voltage 2026. How this materialises in subsequent connection offers is subject to the standard connections process.

Any bidder seeking a mod-app should be aware of the two-stage offer process which was in place between March – November 2023, which has recently ended, to connect to the transmission network in England and Wales, and the relevant rules and guidance that were in place for how the two-step process will impact this Voltage Pathfinder. This information should be used to inform understanding about the duration of the connection application process when developing programmes. Please be aware that a 1st Stage Offer will not be considered satisfactory evidence of a valid connection offer as this is subject to change in the 2nd Stage Offer. For more information on this process please visit:

- <https://www.nationalgrideso.com/industry-information/connections/two-step-offer-process>

³ This timeline is determined by the two-step process, not by the Voltage 2026 tender. For more information on the two-step timeline please refer to the ESO's webpages about the two-step process.

- <https://www.nationalgrideso.com/industry-information/connections>

Please note that any bidders who wish to take this approach do so at their own risk and cost. Neither ESO nor any company within the National Grid Group will be liable for any result of doing so.

V2 Clarification: Please be aware that in November 2023 it was announced that the two-step process would be ending, and any applications received after this date would receive a full 'normal' offer, it is understood that any parties impacted by the two-step process prior to this should receive their second step offers by March 2024⁴.

Additional information

What if a bidder wants to propose a solution that utilises other types of connection such as tertiaries or t-points within the regions of need?

ESO are minded to allow solutions that utilise other types of connections within the regions of need (e.g. a tertiary or a t-point, rather than a bay). However, if a bidder wants to propose a solution that utilises other types of connection, e.g., tertiaries and t-points, they will need to:

1. Contact the ESO Voltage 2026 tender team by **9 February 2024** at the latest to request the associated effectiveness factor of the connection point. As part of this request bidders will need to provide information on the type of connection, the specific geographic location, e.g. substation and distance (km) from terminal substations in case of t-points, and voltage level of the connection point. Based on this ESO will confirm whether this connection point in question is acceptable for the scope of this tender.
 - Please note connection points with effectiveness factor below 40% are not permissible for Voltage 2026.
 - While the V2026 Technical Specification defines the electrical nodes that fall within the regions of need, the effectiveness of any specific tertiary or t-point connection point associated with these nodes may vary and will need to be checked.
 - To maintain a timely and efficient tender there will be a limit of **6 per bidder per region** on these types of requests.
2. Subject to ESO confirmation in relation to point 1, then the bidder will need to demonstrate that they meet one of the following in their tender submission:
 - B. Demonstrate that an existing connection can accommodate the proposed solution 'as-is';**
or
 - C. Demonstrate that an existing connection has a modification application (mod-app) offer that can accommodate the proposed solution;** or
 - D. Demonstrate that the bidder has a connection offer for a new connection that can be entered into if the party is successful in the tender.**

Please refer back to the relevant section of this document for details on each of these.

What if a bidder wants to participate in this tender through a site outside of the regions of need?

ESO is not accepting any tender submissions for Voltage 2026 that would connect at sites outside of the regions of need.

⁴ This timeline is determined by the two-step process, not by the Voltage 2026 tender. For more information on the two-step timeline please refer to the ESO's webpages about the two-step process.

What does this mean for connection customers who are not interested in Voltage 2026 but wish to connect at a site within the regions of need for the Voltage 2026 tender?

Such customer connections will follow the usual connections process, accounting for any rules of the two-step process that was in place between March and November 2023 that may apply. The Voltage 2026 team recommend that these customers engage with the relevant ESO and/or TO connections teams through the scheduled regional pre-application webinars that are being facilitated to understand the feasible connection options available and the process that needs to be followed.

How do these requirements impact land and planning?

Tender participants are responsible for securing land and planning permission to enable their solutions for this Voltage 2026 tender. Tender participants are fully responsible for any information they gather and use about land availability, planning permission or similar when developing their tender submission for Voltage 2026. ESO, or any other company within the National Grid plc group, shall not be held liable for this information and how it is used.

Why is this approach being followed?

- The ability to reserve substation bays is permitted under Section 4.3 of STCP16-1 following the completion of code change PM0121.
- The reservation of a bay minimises barriers to entry for tender participants that a) are not already connected, or b) have not already submitted a connection application, without the need to submit and pay for connection applications prior to certainty of success in the Voltage 2026 tender, providing a more equitable route to market for bidders.
- Previous applications of bay reservation have been a success, receiving positive feedback from the market about improving barriers to entry and route to market (please refer to the Stability Phase 3 Pathfinder).
- Alternatively, bidders are permitted to develop tender submissions using known information from their existing connection agreement, mod-app offer, or new connection offer.
- This approach enables access to solutions with existing connections (subject to meeting the alternative connection requirements and the eligibility criteria), maximising competition.
- The approach reduces the risk for bidders and ESO associated with waiting until contract award before bidders attempt to secure connections. This better enables the network reactive power requirement to be met on time.

There was a two-step connection offer process in place, how does the approach for this Voltage 2026 tender fit into this wider context?

A large amount of work is currently going on in the Connections Reform space. Between 1 March 2023 and November 2023, a two-step connection offer process was implemented for any new connection applications that wish to connect to the transmission network in England & Wales.

The connection requirements for this Voltage 2026 tender were developed considering the two-step process rules and the guidance that has been agreed with Ofgem on how the two-stage offer process would apply to this Voltage Pathfinder. Please see below an excerpt from the two-step FAQ document on how the two-step process would impact connections for the purpose of this Voltage Pathfinder tender.

Q: Will the Two Step offer process apply to bay reservation under the upcoming Voltage Pathfinder?

A: The reservation of bays is not impacted by the two-step offer process as these are facilitated through STCP mechanisms rather than through the Connections process. Any reserved bays identified for the Voltage Pathfinder process will have an assessment consistent with a full offer. It is expected that for any future use of bay reservation by the time a provider needs to make their application for a reserved bay, the two-step process should be complete, and the standard CUSC 3-month offer process re-instated. No preferential treatment or access to capacity will be given to bays reserved under this process, given the nature of the pathfinder.

Q: Will the Two Step offer process affect any other types of connection application for the upcoming Voltage Pathfinder? For example, an existing connection wishing to Mod App or a party seeking a new connection for the upcoming Voltage Pathfinder?’

A: *If the connection is due to connect prior to 2026 it will get a full offer, and therefore not be impacted by the two-step offer process.*

If the connection is due to connect in 2026 or after, then:

- *Existing contracted parties whose connection date falls within the scope of the Voltage Pathfinder tender/contract terms, already have a signed full Connection Agreement and are able submit modification applications to add Mvar-only, 0MW solutions with no fault level contribution to their plant will be given for the Voltage Pathfinder-only a standard modification offer.*
- *Parties who submit new connection applications for Mvar-only 0MW solutions with no fault level contribution specifically to submit a Voltage Pathfinder tender shall be provided with a full connection offer (providing it does not materially disadvantage a party currently going through the two step Connection Offer process)*
- *Parties with existing connections that wish to make ‘Minor’ Technology or Design change modification requests specifically for the purpose of submitting a tender for the upcoming Voltage Pathfinder only, will receive a standard modification offer with the basic changes included.*
 - *Minor in this case means changes with no impact on MW export behaviour or change to fault level contribution. Any technology or design changes with impact to MW export behaviour would be required to go through the two-step process*

It should be noted clauses in the connection contracts are required to acknowledge that when the overall two-step optimisation process concludes the connection agreement may need to be potentially updated to finalise its details. If the connection customers are going through the connection process waiting for a full offer with more than 0MW associated with their application, and they try to change this application to add reactive power capability (Mvar) whilst retaining the original capacity, they would not receive the two-step exemption as the overall application would still have the MW associated and therefore would still be required to go through the two-step process.

The connections approach for Voltage 2026 has been discussed and agreed with Ofgem.

More information about the two-step connections process can be found here on ESO website:

- <https://www.nationalgrideso.com/industry-information/connections/two-step-offer-process>
- <https://www.nationalgrideso.com/document/276641/download>

V2 Clarification: Please be aware that in November 2023 it was announced that the two-step process would be ending, and any applications received after this date would receive a full ‘normal’ offer, it is understood that any parties impacted by the two-step process prior to this should receive their second step offers by March 2024⁵. The above still applies to those impacted by the two-step process.

⁵ This timeline is determined by the two-step process, not by the Voltage 2026 tender. For more information on the two-step timeline please refer to the ESO’s webpages about the two-step process.

Appendices

Appendix 1

This information contained in Appendix 1 has been used to select which bay(s) to reserve (Option A).

To inform which bays to reserve, NGET provided ESO with ‘RAG’ traffic light analysis for a defined list of substations based on effectiveness. ESO have summarised the outcome of this analysis below in good faith. Bidders should note that this information was correct at the time⁶ it was shared by NGET to ESO but is subject to change as the background changes.

London - Connection Point (Bay) Availability

Table 3 – London sites that were assessed.

Site	RAG
Tilbury 400kV	Red
Coryton South 400kV	Red
Rayleigh 400kV	Red
Kingsnorth 400kV	Red
Tilbury 275kV	Red
Northfleet East 400kV	Red
Singlewell 400kV	Red
Littlebrook 400kV	Red
Barking 400kV	Red
Hackney 400kV	Red
Highbury 400kV	Red
Kensal Green 400kV	Red
Rye House 400kV	Red
Iver 275kV	Red
North Hyde 275kV	Red
Watford South 275kV	Red
Elstree 275kV	Red
Iver 400kV	Red
West Thurrock 400	Red
Warley 275	Red
Rowdown 400	Red
Grain 400	Red
Bulls Lodge 400	Red
West Ham 400	Amber
Kemsley 400	Red

RAG definition

R-A-G	Definition
Red	There is no spare bay and there is no opportunity to create a bay due to major injections with other connections works and / or other projects
Amber	There is no spare bay but there is an opportunity to create spare bay, with interactions with other connections works or projects
Green	There is a spare bay or there is the opportunity to create a bay with little or no interaction with other connection works or projects

⁶ Information shared with ESO between March and September 2023.

London – Land Availability

At this time, NGET have informed ESO that they will not consider requests for leasing or purchase of its land.

Applications for cable easements will still be processed through the ‘Use of NGET Land Process’. For more information, please refer to the ‘Voltage 2026 NGET non-operational land information’ guidance document which will be published at ITT.

North England - Connection Point (Bay) Availability

Table 4 – North England connection bay information

Site	RAG
Eggborough 400kV	Red
Ferrybridge 400kV	Red
Monk Fryston 400kV	Red
Knaresborough 275kV	Red
Monk Fryston 275kV	Red
Ferrybridge 275kV	Red
Poppleton 275kV	Red
Thorpe Marsh 400kV mesh corner	Red
Skelton Grange 275kV	Red
Drax 400kV	Red
Thorpe Marsh 275kV	Red
Rochdale 400kV	Red
Kirkstall 275	Red
Brinsworth 400	Red
Thornton 400kV	Red
Bradford West 400kV	Red
Rochdale 275kV	Red
Padiham 400kV	Red
Neepsend 400kV	Amber – opportunity within the 275kV substation. There is no 400kV bus bar.

RAG definition

R-A-G	Definition
Red	There is no spare bay and there is no opportunity to create a bay due to major injections with other connections works and / or other projects
Amber	There is no spare bay but there is an opportunity to create spare bay, with interactions with other connections works or projects
Green	There is a spare bay or there is the opportunity to create a bay with little or no interaction with other connection works or projects

North England – Land Availability

At this time, NGET have informed ESO that they will not consider requests for leasing or purchase of its land.

Applications for cable easements will still be processed through the ‘Use of NGET Land Process’. For more information, please refer to the ‘Voltage 2026 NGET non-operational land information’ guidance document which will be published at ITT.

Appendix 2

The information provided in this appendix is in relation to Option A.

Details of the Connection Feasibility Report

This section describes what can be expected to be included within the Connection Feasibility Report (the Report) that will be produced by the TO:

- Clear identification of the bay that has been reserved at the substation
- Whether any substation TO reinforcement works are required to facilitate the connection bay
 - These works will be categorised into infrastructure assets only and the standard CUSC ownership boundaries will apply. User assets will be the responsibility of the tender participants (this means as the bidder you will determine the cost of these assets based on the equipment and works you procure).
 - Where available, a single line diagram may be provided to identify the infrastructure assets, user assets, and any envisaged possible cable routes that could be utilised.
- Site diagrams to depict the layout of TO substation and any surrounding non-operational land with clear access/egress information
 - Please note acquisition of land is the responsibility to the bidder.
 - The ESO will not be acquiring or reserving land for use by bidders.
 - Please refer to the NGET non-operational land process document for more information.
- High-level assessment of lead time and earliest in-service delivery date (EISD) for the TO works or reinforcements. This will be indicative and subject to confirmation during the connections process when the successful bidder applies for the connection.
- Estimation of infrastructure costs involved in connecting a solution to the network for each site within the Report. This will be indicative and subject to confirmation during the connections process when the successful bidder applies for the connection.
- More complex studies assessing the impact on system stability, power quality, sub-synchronous interaction, protection, etc. **will not** form part of the scope of the Report.

Additional points to note

- Tender participants are to recognise that any indicative costs and indicative dates provided in the Report are subject to variation and will be finalised through the connection process should tender participants be successful and required to go through the connection process to receive the reserved bay.
- The TO will assume that all connections will be SQSS (Security and Quality of Supply Standard) compliant.
- The studies will be based on assumptions agreed between ESO and the TO. These assumptions will be stated in the Report that will be issued to tender participants.
- Categorisation of infrastructure and connection assets (if applicable) will follow the principles laid out in the CUSC (Connection and Use of System Code), Section 14 - Charging Methodologies.
- Infrastructure costs are not directly borne by the tender participant but will need to be secured for by the tender participant in the formal connections process. The infrastructure costs will be accounted for in the assessment stage by ESO and do not need to be included in the commercial bid of the tender participant. The tender participant will need to account for any costs for the provision of security in their commercial submission.

- Connection charges (where applicable) and costs of user assets will need to be accounted for by the tender participant in their commercial submission.
- The details of the Report will not be binding on NGET or ESO and is the best indicative view that can be provided at the point of issue. Any successful tender participant that does not already have a connection agreement will still require a formal connection offer following the announcement of the tender results in line with the contractual requirements for the Voltage 2026 service.
- Successful tender participants who are required to go through the connection process for the reserved bay post-contract award are required to apply for their connection as a Condition Precedent within the Voltage 2026 contract. However, it is encouraged that connection applications are submitted as soon as possible.
- All requirements and obligations from Grid Code, CUSC, NETS SQSS will apply. Any specific requirements will be reflected in the Bilateral Connection Agreement (BCA) when a connection offer is issued.
- All user assets and works will be delivered by the tender participant who will seek and ensure that they have all necessary consenting rights, permits, land rights and access.
- The tender participant needs to ensure that they have the appropriate licenses to deliver the service.
- If tender participants choose to commence any commercial planning or make any commercial decisions prior to the publication of the Report, **ESO, or any other company within the National Grid plc group, shall not be held liable for these plans or decisions, and does not accept any responsibility for plans or decisions made.**