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Appendix G Information

Staythorpe

The following table provides an overview of Appendix G details for this GSP.

Total MW Table 1 Contains legacy and new sites. If Total MW Table 1 remains below the Materiality Trigger Appendix G is submitted to NGENSO on monthly basis. Where addition of new sites exceeds the Materiality Trigger a Project Progression or a Modification Application submission will be required to assess the impact on the National Electricity Transmission System.

Appendix G headroom: There is no guarantee or assurance that capacity included in the Headroom will be available or that plant will be able to connect using that capacity. For example, Materiality Headroom and Fault Level Headroom can be utilised shortly after it is published on our website due to an acceptance of a connection offer, which will be captured in Appendix G submission to NGENSO in the following month.

In addition a summary of the technical conditions for the Grid Supply Point are provided in the form of reverse power flow limits, fault levels, voltage conditions, or any particular technology limit.

Licence Area	East Midlands
<u>GSP</u>	Staythorpe
<u>Total MW Table 1</u>	978.5
<u>Total Developer Capacity [MW]</u>	64.5
<u>Materiality Trigger [MW]</u>	978.5
<u>Fault Level Headroom [kA]</u>	3.0
Connection Asset Reverse	240

Power Limits [MVA]

Approved Copy of Appendix G	26/10/23
Last Reviewed	19/04/24
Subject to <u>Materiality Trigger Study</u>	Yes
<u>Capacity in Materiality Trigger Study</u>	266.3
Power Factor Range	Yes
Emergency Disconnection	Yes
SGT ANM	Yes
SWOT	No
Connect & Manage	No
Operational Visibility and Commercial Control	Yes
Technical Limits	Yes
Technology Restriction	
N/A	
Materiality Headroom Subject to Completion of Transmission Works	

Installation of an additional SGT and Wider transmission reinforcement works. Expected Completion Date October 2030.

Power Factor Range

In order to allow NGED to contain voltage within acceptable limits at the National Electricity Transmission System (NETS)/ Distribution System interface, the Customer must ensure that the generators ($\geq 1\text{MW}$) have the capability to operate between 0.95 leading and 0.95 lagging power factor. Customers will be advised of the target Power Factor within this range.

Emergency Disconnection

National Grid Electricity Transmission (NGET) has instructed that NGED shall maintain a facility such that under emergency conditions on the National Electricity Transmission System (NETS), NGED shall have the ability to de-energise embedded generation ($\geq 1\text{MW}$) upon instruction from NGET.

SGT ANM

The Customer's generation will be included in the SGT Active Network Management Scheme (ANM). The SGT ANM will automatically curtail the output of the Customer's generation in order to control power flow in reverse direction through the Supergrid Transformers (SGTs) at this Grid Supply Point

Operational Visibility and Commercial Control

The Customer's connection will be required to provide visibility of the actions and/or output of the DER and a means to satisfy coordinated control between NGED ESO and NGET, such that NGED can discharge its obligations to develop, maintain, and operate an efficient, coordinated and economical system for the distribution of electricity.

Technical Limits

The Customer's connection can participate in Technical Limit scheme, which allows for earlier energisation of connections on an interim basis, subject to 'Technical Limit' curtailment ('Interim Network Access Rights'), ahead of the completion of enabling transmission reinforcement works.

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← **Appendix G overview**

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Cancellation Charge Information →

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Contact us



Emergency information

0800 6783 105 (tel:0800 6783 105)

General contact enquiries

0800 096 3080 (tel:0800 096 3080)

Emergency information 24/7

For power cuts and emergencies call 0800 6783 105 (tel:08006783105) or 105 (tel:105)

For general enquiries call 0800 096 3080 (tel:08000963080) Mon - Fri, 8am - 5pm

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Tel: +44 (0) 800 096 3080 (tel:+4408000963080)

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National Grid Electricity Distribution PLC 09223384; National Grid Electricity Distribution (East Midlands) Plc (company number 02366923); National Grid Electricity Distribution (West Midlands) Plc (company number 03600574);

National Grid Electricity Distribution (South West) Plc (company number 02366894); National Grid Electricity Distribution (South Wales) Plc (company number 02366985); National Grid Helicopters Limited (company number 02439215);

National Grid Electricity Distribution Property Investments Limited (company number 02373239) and National Grid Telecoms Limited (company number 2386327); (collectively, “NGED”)

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