



## National Transmission System Gas Connection Application Guide





## Welcome

Welcome to this guide on how to make a Gas NTS Connection Application. We hope that the information provided will not only help ensure that the information that you provide expedites the processing of your application, but will provide you with guidance on the process that is required to be undertaken.

This Guide should be read and used in conjunction with the “Connection Application for a new or revised connection to the National Transmission System” which can be accessed using the link on this page.

On receipt of your application our Customer Services Team will provide written acknowledgement and commence the process of deeming it ‘Competent’. A Competent Application is one which has been correctly completed, contains all the required technical data and has had the Application Fee deposited as cleared funds with National Grid. An invoice for the appropriate Application Fee, as published in the Statement and Methodology for Gas Transmission Charges, will be raised and issued. The invoice has 30 day payment terms, please note that until National Grid receives cleared funds we will be unable to progress with your Offer.

Your application is important to us, so as always a member of our Customer Services Team would be pleased to assist you in any part of this process. Please do not hesitate to contact us, you can find some initial contacts on our Connections Home Page.

[See Link for Connections Home Page in Table 2 on Page 16](#)



## About this Document

This guide is designed to provide an explanation to applicants of the process of submitting an application for a new NTS Connection, or a revision to an existing NTS Connection. The guide documents the key information that National Grid requires from an applicant in order to produce and issue an Offer.

Table 1 of this document provides applicants with a description of the minimum information required, the data elements, the associated parameters and the units that are acceptable in order for an Initial or Full Connection Offer to be made by National Grid.

In some cases additional information may be required in order to successfully begin or complete a Connection Offer and where this is the case the customer will be contacted at the earliest opportunity.

This statement is effective from [    ]

This document has been published by National Grid in support of the Statement and Methodology for Gas Transmission Connection Charging.

If you require further details about any of the information contained within this document you can contact us via email at:

[transmissionconnections@nationalgrid.com](mailto:transmissionconnections@nationalgrid.com)

Or by post to:

Gas Customer Manager  
Transmission Network Service  
National Grid plc  
National Grid House  
Warwick Technology Park  
Gallows Hill  
Warwick  
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## 1. Introduction

In order for National Grid to provide an Offer for both new NTS Connections and modifications to existing NTS connections, this includes Network Entry, Network Exit, and Storage the following criteria set out in section 2 - Process needs to be met.

For the purposes of the NTS Connection Offer process, an Applicant can only be a User as defined under the terms of the Uniform Network Code (UNC).

Submission by the Applicant and subsequent acceptance of the application form by National Grid NTS shall constitute formal admission into the NTS Connection Offer process.

## 2. Process

### 2.1 Pre Application Meeting

National Grid extend the invitation for an applicant to attend at least one pre application meeting. The criteria for a Competent Application will be agreed along with the type of connection required. An indication of timescales from Clock Start to Issue Offer and the cost of the Application Fee will be provided.

### 2.2 Application Submission

If an Applicant wishes to connect to the United Kingdom Gas National Transmission System or wishes to modify an existing NTS connection, it shall complete and submit the relevant formal Application form, published on National Grid NTS' website.

[See Link for Connection Application in Table 2 on Page 16](#)

### 2.3 Competent Application

A competent Application will be required fulfil the following criteria:

- An Application Form submitted which has been correctly completed.
- An Application Form submitted which is technically competent (includes all information that National Grid deem essential to make a formal Connection Offer as set out in Table 1).
- An Application Fee as stated in the UNC Section Y, Gas Charging Statement must be deposited with National Grid as cleared funds.

### 2.4 Application Fees

National Grid NTS shall establish, publish and review on an annual basis the types of NTS Connections and Application Fees payable by the Applicant for each Offer type.

[See Link for Application Fees in Table 2 on Page 16](#)

The Application Fee shall be set to cover National Grid NTS' costs of all necessary design studies and preparation of the draft Construction Agreement required in order to provide the Connection Offer.

### 2.5 Notification of Acceptance and Clock Start

Written notification of acceptance will be issued by National Grid NTS as soon as reasonably practicable from the date of receipt, subject to the application being a 'Competent



Application' as per 2.3. This will trigger the 'Notification of Acceptance' which is the formal indication from National Grid to the Applicant that the process of creating an Offer has commenced.

### **2.6 Notification of Non Acceptance**

If the application is not accepted by National Grid NTS, a written notification of non-acceptance and reasons for non-acceptance shall be provided to the Applicant. This will be issued as soon as reasonably practicable and in any case no longer than 5 working days from the date of receipt.

### **2.7 Incomplete Information**

Where National Grid NTS considers that any information provided by the Applicant is incomplete or unclear, or further information is required, the Applicant will be requested to provide further information or clarification as soon as reasonably practicable and in any case no longer than 5 working days from the date of receipt.

### **2.8 Withdrawal of Application**

The Applicant may withdraw by written notification a Connection Offer Application at any time before the Offer is made. If the Application Fees is for an Initial Connection Offer, the Application Fee is fixed and therefore no refund will be issued.

If the Application Fee is for a Full Connection Offer the Application Fee is Variable and therefore a refund minus a deduction for actual costs reasonably incurred by National Grid NTS in preparing the Connection Offer up to that point.

## **3 Requirement for Feasibility Studies**

If the request for a new NTS connection is a Minimum Greenfield Connection <50 MW/Min Ramp Rate - National Grid will advise the customer that there is no requirement for a Feasibility Study.

All other types of request for a new NTS connection or changes to an existing NTS connection will require a Feasibility Study prior to the provision of a Full Connection Offer (FCO).

## **4 Issue Offer**

The period from Clock Start to Issue Offer is dependent on the type of Offer to be made.

- Initial Connection Offer (ICO): Within 2 months
- Full Connection Offer (FCO): Conceptual Design Study within 6 months
- Full Connection Offer: Feasibility Study within 3 months & Conceptual Design Study within 6 months



## 5 Table 1 - Data Elements Explanation

*For New Applications applicants should complete Sections A& B for Revisions to a Connection Applicants should Complete Section C*

Data Item	Data Type	Units	Applicable Connection	Mandatory		Explanation
				ICO	FCO	
<b>Section A - Details of Applicant(in respect of this application)</b>						
<b>1</b>	<b>Registered Company</b>					
Name	Free text	-	All	Yes	Yes	The name of the key contact in the applicant organisation who National Grid should contact regarding this application.
Address (of Registered Office in the case of a Company)	Free text	-	All	Yes	Yes	The address for correspondence that National Grid should use with reference to this application.
Company's House Name	Free text	-	All	Yes	Yes	This field is mandatory for UK registered companies.
Company's House Registered Number	Free text	-	All	Yes	Yes	This field is mandatory for UK registered companies.
Country of Incorporation (if not UK)	Free text	-	All	Yes	Yes	Details of the country where the applicant company has its registered office. This field is mandatory for all applicant companies who are not registered in the UK.
Parent Company Name (if applicable)	Free text	-	All	Yes	Yes	Name of the ultimate parent company.
Shipper Short Code (if applicable)	Six character ref.	-	All	Yes	Yes	To be completed if the applicant company is a registered shipper within the UK and has acceded to the Uniform Network Code. Developers will not have a Shipper Short Code so enter N/A.
<b>2</b>	<b>Commercial Contact/Agent to receive information</b>					
Name	Free text	-	All	Yes	Yes	The name of the key contact in the applicant organisation who National Grid should contact regarding this application.
Title	Free text	-	All	Yes	Yes	The Job title of the key contact in the applicant organisation who National Grid should contact regarding this application.
Address	Free text	-	All	Yes	Yes	The address of the Commercial Contact/Agent.
Email Address	email	-	All	Yes	Yes	The email address to be used with reference to this application by National Grid.



Data Item	Data Type	Units	Applicable Connection	Mandatory		Explanation
				ICO	FCO	
Telephone	Tel No.	-	All	Yes	Yes	The landline and / or mobile phone number National Grid should use with reference to this application.
Fax Number	Fax No.	-	All	Yes	Yes	The fax number National Grid should use with reference to this application.

Section B -Type of Application							
1	Summary of Connection Application	Free Text	-	All	Yes	Yes	Brief description of the Use Gas Facility site to be connected/ revised
2	Category of Connection Application Offer	Tick Box: Initial Connection Offer Full Connection Offer	-	All	Yes	Yes	Is the Offer for an:  Initial Connection Offer Final Connection Offer
3	NTS Connection -Type of request	Tick Box: New NTS Connection or Revision to Existing Connection	-	All	Yes	Yes	Is the connection new or at an existing NTS connection point?





Data Item		Data Type	Units	Applicable Connection	Mandatory		Explanation
					ICO	FCO	
4.	NTS Connection - User Gas Facility Type	Tick Box: Entry, Exit, Storage, Combined	-	All	Yes	Yes	<p>Details of the type of connection select from the list. Allowed connection types are:-</p> <p>Exit: An exit connection to either a supply point or connected system</p> <p>Entry: A connection to facility the delivery of natural gas in to National Grid's NTS either via a pipeline from a gas production facility or from an LNG importation facility.</p> <p>Storage: A connection to a facility which takes gas from the NTS, stores it and returns it to the NTS at a later date.</p> <p>If your proposed connection facility does not fit with one of these connection types contact National Grid via the contact details given at the top of the application form.</p>
5.	<p>First Gas Flow Date(s) Required:</p> <p>a) for commissioning purposes</p> <p>b) Will you require gas from the NTS for commissioning purposes?</p> <p>c) For Commercial Purposes</p>	<p>dd/mm/yyyy</p> <p>Y/N</p> <p>dd/mm/yyyy</p>	-	All	Yes	Yes	<p>Enter the date that gas is first expected to be required to flow from/ into the NTS.</p> <p>Enter the date that capacity within the NTS is expected to be required. Capacity is required for gas to be taken from the NTS and delivered to the NTS.</p> <p>NB the dates given in this form do not confirm capacity rights. Exit and Entry capacity can only be acquired via the Uniform Network Code processes.</p>



Data Item		Data Type	Units	Applicable Connection	Mandatory		Explanation
					ICO	FCO	
<b>Section C - The proposed NTS Connection Site</b>							
1	Proposed Connection Site	OS Survey Map		All	Yes	Yes	Ordnance Survey Map Reference of the preferred point of connection to the NTS. For new connections add details of access from nearest main road.
2	NTS Connection Site - plans	Plan drawing	-	All	Yes	Yes	Plan drawing of proposed site. (Scale not less than 1:25000)
3	NTS Connection Site - details of legal estate	Free Text	-	All	Yes	Yes	Leasehold/freehold interest.
4	NTS Connection Site - Occupier	Free Text	-	All	Yes		Who occupies the site?
5	NTS Connection Site - available space	Free Text	-	All	No	Yes	Is there available space for working storage and accommodation for contractors?
6	a) NTS Connection Site -Physical nature of land	Free Text Surveys and reports	-	All	Opt.	Yes	a) Provide details (including copies of any surveys or reports) of the physical nature of land in which you have legal estate or interest including nature of the ground and the sub-soil. b) Known restrictions that may be imposed on National Grid as a consequence of working on the land. c) Provide indicative information of the storm water drainage, foul sewerage drainage and mains water piping systems to accept connections from the National Grid piping systems.
	Opt.				Yes		
	No				Yes		
7	Planning and Consents for Connection Site and Gas Facility	Free Text	-	All	No	Yes	Give details and provide copies of all existing relevant planning and other consents (statutory or otherwise) relating to the NTS Connection Site and the User Gas Facility Site and/or details of any pending applications for the same.



Data Item		Data Type	Units	Applicable Connection	Mandatory		Explanation
					ICO	FCO	
8	Owners and occupiers of adjoining land	Free Text Plan	-	All	No	Yes	If you are aware of them, please identify by reference to a plan (if possible) the owners and (if different) occupiers of the land adjoining the NTS Connection Site. To the extent that you have information, please give brief details of the owners' and occupiers' estates and/or interests in such land.

Section D - User Gas Facility Site - Operational Parameters							
1	New NTS Connection	N/A	All	Yes	Yes	Yes	Complete: Appendix A. User Gas Facility Operational Parameters. Appendix B. Average Gas Composition (mole%).
2	Revision to an existing NTS Connection	N/A	All	Yes	Yes	Yes	Complete: Appendix C. User Gas Facility Operational Parameters.
3	In either case	N/A	-	All	Yes	Yes	Refer to: Appendix D. NTS Connection - Standard Operational Parameters.

Section E Programme	Bar Chart	-	All	No	Yes	Yes	Provide a suggested development and construction programme in bar chart form for the work necessary to install the <i>USER</i> development (not the <i>NTS</i> Connection Assets).
Connection Application	Signature	-	All	Yes	Yes	Yes	Signed declaration on behalf of the Applicant.

Data Item		Data Type	Units	Applicable Connection	Mandatory		Explanation
					ICO	FCO	
<b>Appendix A - User Gas Facility Operational Parameters - new NTS connection</b>							
<b>Exit/Storage (Injection)</b>							
Peak Hourly Energy Flow	Numeric	GWh/h	Exit/ Storage	Yes	Yes	Yes	Maximum energy flowing in any particular hour.



Data Item	Data Type	Units	Applicable Connection	Mandatory		Explanation
				ICO	FCO	
Maximum required instantaneous offtake rate (from the NTS)	Numeric	Scm/day	Exit/ Storage	Yes	Yes	The maximum peak volumetric flow rate at which gas is required to leave the NTS to supply the company's facility. A value is required for each of the first 8 gas years for which gas is required to be offtaken from the NTS. The rate to be expressed in standard cubic metres per day. A standard cubic metre is the amount of gas measured under International Standard Metric Conditions which for natural gas is 288.15 Kelvin (15°C) and 101.325 kPa (1 atmosphere).
Maximum required Daily Offtake rate (from NTS)	Numeric	Scm/day	Exit/ Storage	Yes	Yes	The maximum amount of gas taken from the NTS in any single day. The rate to be expressed in standard cubic metres per day. A value is required for each of the first 8 gas years for which gas is required to be offtaken from the NTS.
Minimum required Offtake Pressure	Numeric	Barg	Exit/ Storage	Yes	Yes	The minimum pressure desired at the offtake from the NTS expressed in barg. National Grid will undertake analysis of the NTS and will confirm whether or not the requested minimum pressure can be provided. A value is required for each of the first 8 gas years for which gas is required to be offtaken from the NTS. NB National Grid does not guarantee an offtake pressure in excess of 25 barg but will provide details of the Anticipated Normal Offtake Pressure (ANOP) for the connection. The ANOP is the minimum pressure that will normally be available at a connection point.
Capacity (Commercial) Requirement	Numeric	KWh/d	Exit/ Storage	Optional	Optional	An indication of anticipated capacity allocation for each year up to Y+8.



Data Item	Data Type	Units	Applicable Connection	Mandatory		Explanation
				ICO	FCO	
<b>Entry/Storage (Withdrawal)</b>						
Peak Hourly Energy Flow	Numeric	GWh/h	Entry/ Storage	Yes	Yes	Maximum energy flowing in any particular hour.
Maximum required daily Instantaneous Delivery Rate (to the NTS)	Numeric	Scm/day	Entry/ Storage	Yes	Yes	The maximum peak volumetric flow rate at which gas will be delivered to the NTS from the company's facility. The rate to be expressed in standard cubic metres per day. A value is required for each of the first 8 gas years for which gas is required to be delivered to the NTS.
Maximum Required Daily Delivery Rate (to the NTS)	Numeric	Scm/day	Entry/ Storage	Yes	Yes	The maximum amount of gas delivered to the NTS in any single day. The rate to be expressed in standard cubic metres per day. A value is required for each of the first 8 gas years for which gas is required to be delivered to the NTS.
Maximum anticipated Delivery Pressure	Numeric	Barg	Entry/ Storage	Yes	Yes	The maximum pressure which the facility expects to deliver gas to the NTS. National Grid will confirm whether the NTS is able to accept gas at this pressure.
Capacity (Commercial) Requirement	Numeric	KWh/d	Exit/ Storage	Optional	Optional	An indication of anticipated capacity allocation for each year up to Y+8.
<b>Storage Facility -additional items</b>						
Cushion Gas Requirements e.g volumes to be injected (minimum/maximum)	Numeric	Scm/day	Storage	Yes	Yes	The amount of gas required from the NTS to establish the storage facility. Cushion gas remains within the storage facility and is not available to be returned to the NTS under normal commercial operation. A value is required for each year that cushion gas is required.
Total Maximum usable inventory (stock)	Numeric	GScm/Bcf	Storage	Yes	Yes	The anticipated amount of storage capacity available in the storage facility.



Data Item	Data Type	Units	Applicable Connection	Mandatory		Explanation
				ICO	FCO	
<b>Other</b>						
Calorific Value	Numeric	MJ/m <sup>3</sup>	All	Yes	Yes	This is the Calorific value of the gas that has been used for the purposes of converting energy in to volume. NB. The calorific value of gas within the NTS normally falls within the range 36.9 MJ/m <sup>3</sup> to 42.3 MJ/m <sup>3</sup> .
Own Use Gas requirement	Compression . Pre heating, Power Generation	-	All	Yes	Yes	Details of any usage of gas within the facility other than the main purpose of the facility. i.e. gas compression, pre-heating on site power generation.
Ramp Rates	Numeric	MW/min	All	Yes	Yes	Enter the requested rate of change in the flow rates for gas being offtaken from the NTS, delivered to the NTS and under emergency conditions.
Appendix B - Average Gas Composition (mole %)	Yearly numeric figure	-	All	Yes	Yes	Enter Yearly numeric figure for 8 years for the following: N2, CO2, C1 (methane), C2 (ethane), C3 (propane), C4 (butane), C5 (pentane), C6 (hexane), C7 (heptane), C8+ (octane & higher hydrocarbons), H2S, Total Sulphur, Other.

<b>Appendix C - User Gas Facility Operational Parameters - revised NTS connection</b>
Insert From and To dates for all data items listed in Appendix C.

<b>Appendix D - NTS Connection - Standard Operational Parameters</b>
Standardised data-items National Grid will provide within a Full Connection Offer.



## 6 Table 2 - Links to Relevant Documents

1 Gas Connections Home Page
<a href="http://www.nationalgrid.com/uk/Gas/Connections/National+Transmission+System+-+Gas+Connections/">http://www.nationalgrid.com/uk/Gas/Connections/National+Transmission+System+-+Gas+Connections/</a>
2 Application to Modify a Full Connection Offer
<a href="http://www.nationalgrid.com/NR/ronlyres/F75A64D3-68BE-4A6B-A0DD-586ED75B4E27/56969/UNCNTSConnectionApplicationv30October_2012.doc">http://www.nationalgrid.com/NR/ronlyres/F75A64D3-68BE-4A6B-A0DD-586ED75B4E27/56969/UNCNTSConnectionApplicationv30October_2012.doc</a>
3 NTS Connections and Application Fees
<a href="http://www.nationalgrid.com/NR/ronlyres/D2FD2718-68B8-47CE-ABC5-9BDC1881DF33/54531/Gas_Charging_Statement_June_2012V20.pdf">http://www.nationalgrid.com/NR/ronlyres/D2FD2718-68B8-47CE-ABC5-9BDC1881DF33/54531/Gas_Charging_Statement_June_2012V20.pdf</a>

## 7 Document Revision History

Version/ Revision Number	Date of Issue	Notes
V1.0	July 2012	Implementation of UNC Modification Proposal 0373 <i>"Governance of the NTS connections process"</i>
V2.0	October 2012	Update to Transmission Network Service Added Table 2 - Links to relevant Documents