



**APPLICATION FORM FOR AN OFFER OF TERMS
FOR USE OF THE
ALL-ISLAND TRANSMISSION NETWORKS
IN RESPECT OF GENERATION OF ELECTRICITY
IN NORTHERN IRELAND**

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1 Introduction

System Operator for Northern Ireland Limited (“SONI”) is the **Transmission System Operator** for Northern Ireland. It is authorised to participate in the transmission of electricity by means of a Transmission Licence issued by The Department of Enterprise, Trade and Investment (the “Department”), under Article 10(1)(b) of the Electricity (Northern Ireland) Order 1992 (the “**Order**”). It is regulated by the Utility Regulator for Northern Ireland (the “**Authority**”).

Under its Transmission Licence SONI is responsible for the planning and operation the **Transmission System** in Northern Ireland in a safe, secure, efficient manner.

SONI is the only party in Northern Ireland entitled to offer terms to enter into a Transmission Use of System Agreement, an agreement between SONI and an **Eligible Person** for use of the **All-island Transmission Networks**.

The following categories of persons should apply using this form for an offer of terms for a Transmission Use of System Agreement:

- a) **Generators** seeking a new or modified connection to the **Transmission System**; and
- b) **Generators** with a **Maximum Export Capacity** of 5MW¹ and above seeking a new or modified connection to the **Distribution System**.

This Application Form sets out the information which must be submitted to SONI in order for SONI to prepare and offer terms to enter into a Transmission Use of System agreement.

The Transmission Use of System Agreement will specify:

- a) the quantities of electricity which may be provided by such **Eligible Person** at such entry point or points on the **Transmission System**;
- b) the Use of System charges to be paid by the person seeking use of the **All-island Transmission Networks** in respect of generation in Northern Ireland; and
- c) such further terms as are or may be appropriate for the purposes of the agreement.

SONI shall offer terms as soon as practicable and (save where the **Authority** consents to a longer period) in any event not more than 28 days after receipt by SONI of a fully completed application from an **Eligible Person** containing all such information as SONI may reasonably require for the purpose of formulating the terms of the offer.

¹ Note that the threshold for Transmission Use of System (TUoS) charging is in accordance with [SEM-11-078 \(Generator Transmission Use of System Charging\)](#).

SONI shall not be obliged to offer to enter or to enter into any Transmission Use of System Agreement:

- (a) if to do so would involve SONI:
 - i. in breach of its duties under Article 12 of the **Order**; or
 - ii. in breach of any regulations made under Article 32 of the **Order** or of any other enactment relating to safety or standards applicable in respect of the **Transmission System**; or
 - iii. in breach of the conditions of its Transmission Licence;
 - iv. in breach of the **Grid Code**; or
- (b) if the **Eligible Person** making the application does not undertake to be bound by such parts of the **Grid Code** and to such extent as the **Authority** shall from time to time specify in directions issued to SONI for the purposes of Condition 25 of the Licence; or
- (c) if, when requested to do so by SONI, NIE and/or the Republic of Ireland System Operator does not offer to enter into an agreement for connection and/or modification works in respect of the **Connection Agreement** or Transmission Use of System Agreement in question.

If the applicant is not already a party to a **Connection Agreement** or Transmission Use of System Agreement then the applicant is required to undertake, as part of this application, to comply with the provisions of the **Grid Code**. Data submitted pursuant to this application are deemed to be submitted under the **Grid Code**.

Copies of the **Grid Code** are available to download at www.soni.ltd.uk.

If the generating equipment is to be connected to the Northern Ireland **Distribution System** then SONI will need to discuss this application with Northern Ireland Electricity plc (“NIE”) and by signing this Form applicants consent to information contained with this Form being shared with NIE.

Completed Application Forms should be sent to:

TUoS Applications
SONI Ltd
Castlereagh House
12 Manse Road
Belfast
BT6 9RT

If any additional information is required or if assistance is need in completing this form please contact:

connections@soni.ltd.uk

2 Use of System Application

1. We hereby apply to use the **All-island Transmission Networks** in respect of

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(insert name of generating station)

from its connection to the **Distribution System / Transmission System**. *

2. We confirm that we are an **Eligible Person** and therefore are entitled to apply for an Offer of terms for use of the **All-Island Transmission Networks**.
3. We undertake for the purposes of this application to be bound by the terms of the **Grid Code**.
3. We authorise the release of information provided pursuant to this application to NIE should SONI consider it necessary.

Signed by: (For and on behalf of the Applicant)	
Date:	

* Delete as appropriate

Table 1 - Applicant's Details

Company name:	
Company Registered Address:	
Company Registration No:	
Contact within company:	
Address: (if different to above)	
Tel No:	
Email address:	
Fax No:	

Table 2 - General information

Project name											
Address/Location of site											
Grid co-ordinates of the electrical connection point											
Site location plans enclosed?	<p style="text-align: center;">Yes / No *</p> <p>(Please provide a 1:50,000 Ordnance Survey map with the location of the facility clearly marked. The electrical connection point must be clearly marked with an "X". If it is intended that Generating Units will be spread geographically over a number of different sites, please also indicate each site on this site location plan, by labelling each site).</p>										
Has the applicant obtained Planning Permission for the facility from the NI Planning Service?	<p style="text-align: center;">Yes / No *</p>										
SONI requires a copy of the Planning Permission. Has it been submitted with this application?	<p style="text-align: center;">Yes / No *</p>										
Is applicant an Eligible Person and entitled to apply for an Offer of terms for use of the All-Island Transmission Networks ?	<p style="text-align: center;">Yes / No *</p> <p>(If 'Yes', please provide evidence of the license granted under Article 10 of the Order or evidence that the applicant has applied for a licence under Article 10 and that this application has not been withdrawn or rejected. If claiming an exemption from the requirement to be so licensed under Article 9 of the Order, please advise that this is the case, and for information purposes only, the reasons for the exemption)</p>										
In which BSP Group will the Power Station be connected? (Distribution connected only)											
Planned date for commencing generation:											

* delete as appropriate

Table 3 – Standard Planning Data (User System details)

<p>Has a Single Line Diagram (SLD) enclosed?</p> <p>(Please provide a SLD of existing and proposed arrangements of main connections and primary distribution systems showing equipment ratings and if available number and nomenclature). This should include:-</p> <ul style="list-style-type: none"> • Busbar layouts • Electrical circuitry (i.e. lines, cables, transformers, switchgear etc) • Phasing arrangements • Earthing arrangements • Switching facilities and interlocking arrangements • Operating voltages • Numbering and nomenclature 	<p>Yes / No *</p>	
<p>In the case of Controllable WFPSs or Dispatchable WFPSs, a diagram showing the Controllable WFPS or Dispatchable WFPS wind speed and direction against electrical output in MW, in “rose” format, is required. Has this information been submitted with this application?</p>	<p>Yes / No *</p>	
<p>Total number of generating units:</p>		
<p>Total Registered Capacity:</p>		MW
<p>Maximum Export Capacity:</p>		MW
<p>Minimum Generation (if applicable):</p>		MW
<p>Maximum auxiliary demand</p> <p>Active:</p> <p>Reactive:</p>		<p>MW</p> <p>MVar</p>
<p>Operating regime of units not subject to Central Dispatch (e.g. continuous, peak lopping, intermittent):</p>		
<p>Maximum 3-phase short circuit current infeed into the Transmission System:</p>		kA
<p>The minimum zero sequence impedance of the applicant’s system at the Connection Point:</p>		% on 100
<p>Details of any Transformers proposed to be connected on customer side of the connection point (if applicable)</p> <p>Rating:</p> <p>Positive sequence reactance:</p> <p>Tap change range:</p>		<p>MVA</p> <p>% on MVA</p> <p>+% to -%</p>

* delete as appropriate

Table 4A & 4B - Standard Planning Data (Generating Units details)

Where a number of non-wind Generating Units are proposed to be connected, the standard Planning data shall be submitted for each type of Generating Unit. Please complete Table 4A below.

Where a number of wind Generating Units are proposed to be connected, the standard Planning data shall be submitted for each type of Generating Unit. Please complete Table 4B below.

If it is intended that Generating Units will be spread geographically over a number of separate sites, please also indicate this in the tables below, by stating the site or sites that each Generating Unit Type will be part of – this should align with the Site Location Plan submitted as part of this application.

(Please continue on separate sheet if necessary).

Tables 4A - Standard Planning Data (*Non-wind Generating Units* details)

	Generating Unit Type 1	Generating Unit Type 2 (if applicable)	Generating Unit Type 3 (if applicable)
Proposed for site(s) if applicable:			
Prime mover type:			
Generating Unit type e.g. synchronous, induction etc:			
Generating Unit Rating:	MW	MW	MW
Generating Unit Terminal voltage:	kV	kV	kV
Generating Unit Power Factor range at terminals:			
Registered Capacity:	MW	MW	MW
Minimum Generation: (where applicable)	MW	MW	MW
Generating Unit Power Factor rated power factor:			
Maximum auxiliary demand			
Active:	MW	MW	MW
Reactive:	MVA_r	MVA_r	MVA_r
A Sustained Load diagram is required. Has this diagram been submitted along with this application?	Yes / No *	Yes / No *	Yes / No *
A CCGT Installation Matrix in respect of its CCGT Installations is required. Has this information been submitted along with this application?	Yes / No / N/A*	Yes / No / N/A*	Yes / No / N/A*

Tables 4B - Standard Planning Data (*Wind Generating Units details*)

		Wind Turbine Type 1	Wind Turbine Type 2 (if applicable)	Wind Turbine Type 3 (if applicable)
Proposed for site(s) if applicable:				
Manufacturer of Wind Turbine:				
Model of Turbine:				
Type of Turbine (e.g. DFIG):				
Number of Turbines				
Rated power output of each turbine:	MW			
Generating Unit Terminal voltage:	kV			
Generating Unit Power Factor range at terminals:				
Registered Capacity (sent out):	MW			
Maximum Generation (sent out):	MW			
Minimum Generation (sent out):	MW			
Reactive Power Capability	MVar (Lagging)			
	MVar (Leading)			
Reactive Power (Max. Gen)	<i>Please attach Wind Turbine Power Capability Curve</i>			
Reactive Power (Normal Full Load)				
Reactive Power (Normal Minimum Load)				
Maximum auxiliary demand				
Active:	MW			
Reactive:	MVar			
Inertia constant:	MWs/MVA			
Short circuit ratio:				
Direct axis transient reactance:	% on MVA			
Direct axis sub-transient time constant:	s			
Generating transformer				
Rating:	MVA			
Positive sequence reactance:	s on MVA			
Tap change range:	+% to -%			

Table 5 - Standard Planning Data for Non Wind Generating Units with a Registered Capacity >5MW

Where a number of Generating Units are proposed to be connected the data required by this Table 5 shall be completed for each type of Generating Unit. (Please continue on separate sheet if necessary).

Generating Unit Type 1

Inertia constant:		MWs/MVA
Short circuit ratio:		
Direct axis transient reactance:		% on MVA
Direct axis sub-transient time constant:		s
Generating transformer Rating: Positive sequence reactance: Tap change range:		MVA % on MVA +% to -%

Generating Unit Type 2 (if applicable)

Inertia constant:		MWs/MVA
Short circuit ratio:		
Direct axis transient reactance:		% on MVA
Direct axis sub-transient time constant:		s
Generating transformer Rating: Positive sequence reactance: Tap change range:		MVA % on MVA +% to -%

Generating Unit Type 3 (if applicable)

Inertia constant:		MWs/MVA
Short circuit ratio:		
Direct axis transient reactance:		% on MVA
Direct axis sub-transient time constant:		s
Generating transformer Rating: Positive sequence reactance: Tap change range:		MVA % on MVA +% to -%

Definitions

All-island Transmission Networks	Means the Transmission System and the Republic of Ireland transmission system taken together.
Authority	Means the Northern Ireland Authority for Utility Regulation, as established under the Energy Order;
Central Dispatch	<p>The process of Scheduling and issuing Dispatch Instructions in relation to CDGUs, Pumped Storage Plant Demand, Demand Side Units, Aggregated Generating Units and/or Interconnectors direct to a Control Facility by the TSO pursuant to the Grid Code. In particular:</p> <ul style="list-style-type: none">• All Dispatchable WFPSs shall be subject to Central Dispatch;• All other Power Stations with a Registered Capacity of above 10 MW shall be subject to Central Dispatch;• All other Power Stations with a Registered Capacity of 10 MW or less can agree with the TSO to be subject to Central Dispatch.
Centrally Dispatched Generating Unit (or CDGU)	A Generating Unit within a Power Station subject to Central Dispatch .
Connection Agreement	an agreement between SONI and a customer setting out the terms relating to a connection to the Transmission System or an agreement between NIE and a customer setting out the terms relating to a connection to the Distribution System , as the context requires;
Controllable WFPS	A WFPS first connected to the NI System on or after 1 April 2005 whose wind turbines comprise a Registered Capacity of 5 MW or more.
Dispatchable WFPS	A Controllable WFPS which must have a Control Facility in order to be dispatched via an Electronic Interface by the TSO .
Distribution System	The electric lines within the Authorised Area, as defined in the licence held by NIE, owned by NIE, (but not, for the avoidance of doubt, any lines forming part of the Transmission System or any Interconnector), and any other electric lines which the Authority may specify as forming part of the Distribution System.

Eligible Person	Means persons licensed under Article 10 of the Order (or exempt from the requirement to be so licensed under Article 9 of the Order) or who have applied for a licence under Article 10 and whose application has not been withdrawn or rejected (including, for the avoidance of doubt, the Power Procurement Business in its capacity as such).
Generator	A person who generates electricity under a licence or exemption under the Order and who is subject to the Grid Code either by virtue of a licence or exemption or pursuant to any agreement with the TSO or otherwise.
Grid Code	the code of that name drawn up pursuant to SONI's Transmission licence as amended from time to time in accordance with SONI's licence;
Maximum Export Capacity (or MEC)	Means the maximum permissible amount of electricity, expressed in MW, which can be exported to either the Distribution System (as set out in the NIE Connection Agreement) or the Transmission System (as set out in the SONI Connection Agreement);
Minimum Generation	The minimum MW Output which a Generating Unit can generate continuously, registered with the TSO under SDC1 as a Technical Parameter.
Order	means The Electricity (Northern Ireland) Order 1992;
Registered Capacity	The normal full load capacity of a generating unit measured at the connection point and in relation to a WFPS, the normal full load capacity of the collection of one or more wind turbines, each being a generating unit, measured as at the connection point of the WFPS.
Transmission System	The System consisting (wholly or mainly) of high voltage electric lines and cables operated by the TSO for the purposes of transmission of electricity from one Power Station to a sub-station or to another Power Station or between sub-stations or to or from any Interconnector including any Plant and Apparatus and meters owned or operated by the TSO or TO in connection with the transmission of electricity.
Transmission System Operator (or TSO)	The holder of the licence granted pursuant to Article 10(1)(b) of the Order to operate a Transmission System.