



Interconnector Registration Guide

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1. INTERCONNECTORS

1.1. INTRODUCTION

There are two interconnectors between Ireland and Great Britain:-

- The Moyle Interconnector
- The East-West Interconnector

As the Interconnector Administrator (IA), SONI facilitates the allocation of capacity and energy trading via the Auction Management Platform (AMP) used for the Moyle and the East-West Interconnectors.

1.2. THE MOYLE INTERCONNECTOR

The Moyle Interconnector, which is owned and managed by Mutual Energy, is a 500MW DC (2 x 250 dual monopoles) submarine interconnection linking electricity systems between Northern Ireland and Scotland. The interconnector connects Ballycronan More Substation in Islandmagee, Northern Ireland with Auchencrosh Substation in Ayrshire, Scotland.

The Moyle Interconnector transmission capacity is available for third party access, allowing users to trade electricity in either direction between Ireland, Great Britain and beyond.

1.3. THE EAST WEST INTERCONNECTOR

The East-West Interconnector, which is owned and managed by EirGrid, is a 500MW DC (2 x 250 dual monopoles) submarine interconnection linking electricity systems between Ireland and Wales. This interconnector is currently under construction and is due to be completed in 2012. This link will connect converter stations at Rush North Beach, Dublin with Barkby Beach in North Wales.

1.4. SEM

The Single Electricity Market (SEM) provides a competitive, sustainable and reliable wholesale market in electricity aimed at delivering long-term economic and social benefits that are mutually advantageous throughout the island of Ireland. SEM is a joint venture between SONI and EirGrid and was proposed by the Department of Enterprise, Trade and Industry (DETI) in Northern Ireland and the Department for Communications, Marine and Natural Resources (DCMNR) in the Republic of Ireland.

The [Trading and Settlement Code \(TSC\)](#) was written by the Regulatory Authorities in Ireland (CER) and Northern Ireland (NIAUR). The TSC describes how trading is carried out on the island of Ireland and includes rules around how trading should take place on interconnectors within the SEM.

1.5. BETTA

The British Electricity Trading and Transmission Arrangements (BETTA), proposed by the Office of Gas and Electricity Markets (Ofgem) and the Department of Trade and Industry (DTI), was introduced on the 1st April 2005 and created a fully competitive British-wide wholesale electricity market for the first time.

As a result of these new arrangements, the transmission and trading interfaces formally between England and Wales with Scotland are now between Great Britain and Northern Ireland. The British electricity network is interconnected with the Northern Ireland network via the Moyle Interconnector, and with Republic of Ireland via the East-West Interconnector.

The Balancing and Settlement Code (BSC) in Great Britain is a comprehensive set of rules and describes the trading arrangements.

1.6. AUCTION MANAGEMENT PLATFORM (AMP)

The Auction Management Platform (AMP) is a computerised system that provides the necessary mechanisms and outputs to facilitate trading across the Moyle Interconnector and the East-West Interconnector. The AMP is an interface between the SEM in Ireland and the BETTA market in Great Britain.

Interconnector capacity is allocated by auction to facilitate energy trades between users. Both capacity allocation and energy trading on the interconnectors are facilitated by SONI via AMP, which is compatible with both the SEM and the BETTA arrangements.

AMP has been developed and is currently hosted by UNICORN Systems in the Czech Republic.

2. SONI RESPONSIBILITIES UNDER BETTA

Under BETTA, the [Balancing and Settlement Code \(BSC\)](#) requires formal interfacing roles to be undertaken by a party to enable trading between the interconnected system and GB. SONI have undertaken these formal roles as follows:-

- (i) The Interconnector Administrator (IA) is responsible for the administration of trading between the jurisdictions
- (ii) The Interconnector Error Administrator (IEA) is responsible for the management and settlement of interconnector power imbalances in GB
- (iii) As the Externally Interconnected System Operators (EISO), SONI and EirGrid will interface with National Grid (NG) in the UK as GB System Operator

2.1. INTERCONNECTOR ADMINISTRATOR (IA) DUTIES

2.1.1. Physical Notifications (PNs)

Each interconnector unit in the SEM must be associated with a BMU (Balancing Mechanism Unit) in GB. Physical Notifications (PNs) contain the energy allocated to each BMU and are submitted to National Grid (NG). Participants are required to sign the relevant Access Arrangements to allow SONI to submit PNs on their behalf. PNs are a reflection of the physical flow from the user, which is the difference between the initial and final PN issued before the gate closure. This is used to calculate each user's credit cover under the BETTA arrangements.

2.1.2. Submission of BMU Deemed Metered Volumes

The IA has a non-trading role and the specific obligations are detailed in [Section R](#) of the Balancing and Settlement Code (BSC). This role requires the submission of energy allocations to Elexon for each interconnector registered BMUs (Balancing Mechanism Units) via an electronic SAA-I006 data flow. These energy allocations are known as BMU Deemed Metered Volumes (DMVs) and are discussed in the [Balancing and Settlement Code ref BSCP04](#).

2.2. BETTA REGISTRATION REQUIREMENTS

For information on registering in BETTA, consult the following websites:-

- www.elexon.co.uk
- www.nationalgrid.com

3. SONI RESPONSIBILITIES UNDER SEM

3.1. TRADING AND SETTLEMENT CODE

The TSC describes the parties involved in SEM interactions in generic terms meaning that there is no concept of AMP. The three main parties involved in the SEM from an interconnector perspective are as follows:

- (i) The Interconnector Administrator (IA) represents any party or system that manages the interconnector. In the context of this document, when the IA is referred to this means SONI. When data flows to and from the IA are described, this is via the AMP application on SONI's behalf;
- (ii) The Market Operator (MO) represents any party or system that manages the market place. When data flows to and from the MO are described, this is via the SEM Central System;
- (iii) The Interconnector Unit (IU) represents any party that trades on the interconnector via the SEM. The term interconnector user is also used to refer to an interconnector unit. The interconnector user is a more physical concept; each interconnector user must register a single interconnector unit, which is the logical entity against which the user trades in capacity and energy. An interconnector unit is not a user of the AMP application, although there is a relationship, but a party that trades on the interconnector via SEM.

3.2. SEM REGISTRATION REQUIREMENTS

Information on registering with the Single Electricity Market Operator (SEMO) can be found using the following link: - www.sem-o.com/joiningthemarket/.

SEMO Customer Service can deal with any queries regarding registration. The contact details are as follows:-

- **Email**

- a) General queries relating to SEMO – please email markethelpdesk@semo-o.com
- b) Queries relating to Market registration – please email registration@sem-o.com

- **Telephone**

The SEMO Helpdesk is available Mon-Fri from 9am until 4.30pm. The contact numbers are as follows:-

- a) ROI:- 1800 778 111
- b) NI:- 08000 778 111
- c) International:- + 353 (1) 237 0468

4. INTERCONNECTOR REGISTRATION PROCESS

4.1. ACCESS ARRANGEMENTS

It is essential that all users agree and sign the specific access arrangements for the interconnector they wish to trade on.

4.1.1. Interconnector Access Arrangements

The access arrangements are the agreed rules that need to be adhered to when auctioning and using capacity on the interconnector. The published access arrangements detail the following information:-

- the procedures for auctioning rights to use the interconnector capacity
- the terms on which users may participate in auctions; and
- the terms for use of the interconnector capacity

This approved documentation can be accessed using the following links:-

[Moyle Interconnector Access Rules.](#)

[East-West Interconnector Access Rules.](#)

4.2. TUoS AGREEMENT FOR MOYLE

The Transmission Use of System (TUoS) agreement is an agreement prepared by SONI. This agreement details the charges for use of the All-Island Transmission Networks in respect of generation and supply. Documentation is available on request from the IA.

The TUoS agreement must be completed and returned to SONI by all Moyle Interconnector users. At present, there are no TUoS charges for interconnector users.

4.3. COMMUNICATION

Once the user has agreed and signed the access arrangements, the contact details will be added to the SONI Interconnector Email Distribution List. Contacts will be emailed with information on changes within the access arrangements and the auction timetables.

4.4. ADMINISTRATION ON THE AMP

The AMP, as mentioned, is the trading platform used on the Moyle and East-West Interconnectors. All interconnector capacity holders must complete the forms detailed below to register on the AMP (MS Word versions are available on request).

4.4.1. AMP Login Account Form

Each user of the AMP must complete a Login Account form in order to create an account and avail of the access privileges to the trading platform. This form can also be used to amend or delete existing user accounts. It is advised to have more than one user as back up in case of any IT issues or emergencies.

In order to complete the AMP Login Account form, the user will first need to acquire a digital certificate. If the user already has a digital certificate for the SEM system, this can be used on the AMP application. Otherwise the user is advised to contact the IA to instigate the request for a new digital certificate. Details on how to obtain a digital certificate can be given on request from the Commercial Department.

4.4.2. AMP Interconnector Unit Registration Form

It is essential that each user also completes the Interconnector User Registration form. This registration form is used to link the SEM market with the BETTA market in Great Britain, and this is done by assigning BM Units to registered interconnector units in the SEM.

In order to complete this registration form, each user needs to acquire an Energy Identification Code (EIC). An EIC is a unique identifier which allows subjects to trade within the different European energy markets. It is a fixed-length alphanumeric code consisting of 16 characters.

EIC codes can be issued by either a local European Issuing office or The European Federation of Energy Traders (EFET). EFET is an organisation of more than 100 energy trading companies from 27 European countries dedicated to stimulating and promoting energy trading throughout Europe. EFET members can apply directly for an EIC whereas non-members will have to contact the IA in the absence of a local issuing office in the UK and Ireland.

The Login Account and the Interconnector Unit Registration forms can be viewed in [Appendix 1](#). Both forms need be submitted to SONI once the user can provide relevant details including their BM Units and their SEM Participant ID.

The completed forms can be submitted using either of the following delivery methods:-

- Email: interconnectors@soni.ltd.uk
- Fax: + 44 (28) 90707560

SONI will require **10 business days** to process the forms.

4.4.3. AMP Client Software Requirements

The supported client software requirements used to access the Auction Management Platform (AMP) are detailed below.

Supported Operating systems

AMP requires one of the following Operating systems:

- Windows 8
- Windows 7
- Windows XP – Requires Service Pack 3(SP3) to be installed

Browser Specification

Internet Explorer is the only certified and supported browser. The supported versions of Internet Explorer are:

- Internet Explorer 8
- Internet Explorer 9 (only with Compatibility mode)
- Internet Explorer 10 (only with Compatibility mode)
- Internet Explorer 11 (only with Compatibility mode)

Internet explorer can be downloaded from links below.

- <http://windows.microsoft.com/en-ie/internet-explorer/download-ie>
- <http://www.microsoft.com/en-us/download/internet-explorer-8-details.aspx>
- <http://www.microsoft.com/en-us/download/internet-explorer-9-details.aspx>
- <http://www.microsoft.com/en-us/download/internet-explorer-10-details.aspx>

JAVA version

JAVA JRE needs to be installed. The supported versions are JRE 1.6u27 – 1.7u51

Java can be downloaded from the link below

- <http://www.oracle.com/technetwork/java/javase/downloads/index.html?ssSourceSiteId=ontjnp>

Note: - if you are using a PC to access the Central Market Systems MOI then the only supported Java versions are 1.6u27 & 1.6u43

4.5. AMP SUPPORT

AMP Support will be provided between the hours of 07:00-17:00 on Business Days and 07:00-15:00 on non-Business Days

The first point of contact for users with any issues whilst using the AMP service will be SONI.

The external contact details are as follows:-

Department	Email	Telephone
SONI IA	interconnectors@soni.ltd.uk	+44 (0) 28 90707 450

All reported issues will be initially investigated by a designated IA within SONI's Commercial Department.

5. USEFUL INFORMATION

5.1. USEFUL WEBSITES

- www.soni.ltd.uk
- www.mutual-energy.com
- www.sem-o.com
- www.nationalgrid.com
- www.elexon.co.uk/pages/home.aspx
- www.eirgrid.com
- www.interconnector.org

5.2. CONTACT DETAILS

Interconnector Administrator

SONI Commercial Department

Tel:- +44 (0) 28 90707450

Email:- interconnectors@soni.ltd.uk

Moyle Interconnector Owner

Paul McGuckin

Moyle Interconnector Limited

Tel:- +44 (0) 28 90437589

Email:- paul.mcguckin@moyleinterconnector.com

East West Interconnector Owner

Peter Lantry

Eirgrid Interconnector Limited

Tel:- +353 (0) 123 70461

Email:- peter.lantry@eirgrid.com

Arthur Moynihan

Eirgrid Interconnector Limited

Tel:- +353 (0) 123 70131

Email:- arthur.moynihan@Eirgrid.com

General email address:- EastWestInterconnector@Eirgrid.com

6. APPENDICES

6.1. APPENDIX 1:- AMP ACCOUNT LOGIN & REGISTRATION FORMS

Auction Management Platform Login Account Form			
Please tick appropriate box:			
<input type="checkbox"/> Create New Account Preferred Login ID	<input type="checkbox"/> Amend Existing Account Existing Login ID	<input type="checkbox"/> Terminate Account Existing Login ID	
Complete Sections 1 to 4	Complete Sections 1 to 4	Complete Sections 1 and 5	
Section 1: Contact Details			
Surname:		Forename:	
Company Name:			
Telephone Number:		Email Address:	
Section 2: User Access			
Do you require Trader Access	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Section 3: Web Services			
Will web services be enabled for this user account?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Section 4: Digital Certificates			
Do you have a current SEM Digital Certificate registered in your name?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
If yes please provide the full Certificate name and Expiry Date e.g. name@PT_5xxxxx			
Section 5: Termination Details			
Effective Termination Date:			
Authorised Name:		Position:	
Authorised Signature:		Date:	
Completed forms should be emailed to interconnectors@soni.ltd.uk or faxed to 028 90707560 Please note that SONI require at least 10 Business days notice to process your request.			
Interconnector Administrator Use Only			
Date Received:		Received by:	
User Name:		User Role:	
Date Processed:		Processed by:	

Auction Management Platform – Interconnector User Registration Form																						
Please tick appropriate box:																						
<input type="checkbox"/> Create New Account				<input type="checkbox"/> Amend Existing				<input type="checkbox"/> Terminate Account														
Complete Sections 1-7				Complete Sections 1-7				Complete Sections 1 and 8														
Section 1: Company Details																						
Company Name:																						
Registered Address:																						
Telephone Number:																						
Fax Number:																						
Vat Number																						
Section 2: Contact Details																						
	Commercial	Operational			Invoicing																	
Contact Name																						
Address																						
Telephone Number																						
Email																						
Section 3: Out of Hours Contact Details																						
Operational Telephone Number																						
Operational Mobile Number																						
Operational Fax Number																						
Section 4: SEM Interconnector Unit Details																						
Participant ID (e.g. PT_000000):																						
Resource Name/Unit ID (e.g. PT_000000_I_NIMOYLE)																						
Section 5: BETTA - BM Unit Details																						
NGC Production BMU Name: (9 characters)												Production BMU ID: (11 characters)										
NGC Consumption BMU Name: (9 characters)												Consumption BMU ID: (11 characters)										
Section 6: EIC Code																						
EIC Code																						
Section 7: Effective Date																						
Confirmed BETTA Effective Date																						
Section 8: Terminate Registration																						
Interconnector Unit ID:					Termination Date:																	
Authorised Name:					Position:																	
Authorised Signature:					Date:																	
Completed forms should be emailed to interconnectors@soni.ltd.uk or faxed to 028 90707560 Please note that SONI require at least 10 Business days notice to process your request.																						
Interconnector Administrator Use Only																						
Date Received:					Received by:																	
Date Processed:					Processed by:																	