

## Application Form for a DEMAND SIDE UNIT

### INTRODUCTION

This Demand Side Unit (DSU) Application Form outlines the information EirGrid or SONI requires to progress an application for operation of a DSU through Central Dispatch. For further information on the process the applicant should contact [DSU@eirgrid.com](mailto:DSU@eirgrid.com) or [connections@soni.ltd.uk](mailto:connections@soni.ltd.uk).

The applicant will be required to provide the project data before becoming operational and will be liable for any charges, increase in lead-times, etc. resulting from revisions or changes to the information provided in this Application Form. The Applicant shall inform EirGrid or SONI of such changes should they affect the Application Form.

Note for the purpose of this Application Form:

- “TSO” is the holder of the licence to operate the Transmission System;
- “DSO” is the holder of the licence to operate the Distribution System in Ireland;
- “DNO” is the holder of the licence to own the Distribution System in Northern Ireland;
- “Applicant” is the company or person representing the Demand Side Unit;
- “Application Form” or “Form” is the Demand Side Unit Application Form.

Definitions of terms used in this form can be found in the Glossary of the relevant Grid Code.

Once the Demand Side Unit application is deemed fully complete<sup>1</sup>, EirGrid or SONI reserve the right to disclose and publish the following details:

- Applicant details (contact name, email address, telephone number)
- Application received date
- Status of application
- Location of Demand Side Unit
- Demand Side Unit MW Capacity

**For applications in Northern Ireland, please post a hard copy to:**

SONI Grid Ops Planning,  
Connections,  
Castlereagh House,  
12 Manse Road,  
Belfast,  
BT6 9RT.

**And email an electronic copy to:**

[connections@soni.ltd.uk](mailto:connections@soni.ltd.uk)

**For applications in Ireland, please post a hard copy to:**

Demand Side Unit Applications,  
Operational Services & Performance,  
EirGrid,  
Block 2, The Oval,  
160 Shelbourne Road,  
Ballsbridge,  
Dublin 4.

**And email an electronic copy to:**

[DSU@eirgrid.com](mailto:DSU@eirgrid.com)

<sup>1</sup> An application is deemed fully complete by the TSO when all the necessary information has been provided to the TSO.

**DETAILS OF APPLICANT**

1. Full name of the applicant(s)

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2. Address of the applicant(s) or in the case of a corporate body, the registered address and company registration number

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Company Registration Number:

3. Telephone Number

4. Fax Number

5. Contact Person(s)

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6. Email Address

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7. Contact Address (if different to above)

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**GENERAL DETAILS**

8. **Nominate a preferred name for this facility** (The TSO will take this preferred name into consideration when determining the facility's station name but reserves the right to change it in order to avoid any potential for confusion with other projects or stations)

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9. Address of the Demand Side Unit Control Facility

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10. It is the applicant's responsibility to comply with the latest versions of the relevant Grid Code.

Noted

11. Has the Applicant signed a confidentiality agreement with the TSO (Ireland only)?

Yes  No  N/A

If no, two copies must to be submitted with this application form. The Confidentiality Agreement template can be found on the EirGrid website:

<http://www.eirgrid.com/media/2%20Signed%20Confidentiality%20Agreements.doc>

12. Has the DNO (Northern Ireland) or DSO (Ireland) as appropriate been informed about the proposed intention of the customer to operate a Demand Side Unit (the applicant is obliged to inform the DSO or DNO as appropriate)?

Yes  No

13. Has NIE Market Services been informed about the proposed intention of the customer to operate a Demand Side Unit (Northern Ireland applicants only)?

Yes  No  N/A

14. Please specify details of any special operating or network limitations placed by the DNO or DSO on the Demand Side Unit (Appendix A).

Completed

15. Please specify the Bulk Supply Points or Connection Points of each Individual Demand Site to the Transmission System (Appendix A).

For transmission-connected sites this is the transmission station to which the site is connected. For distribution-connected sites this is the transmission station to which the distribution network from the site is connected under normal operation. This information is available from the DNO or DSO as appropriate.

Completed

16. Specify whether this is an Individual Demand Site or an Aggregated Demand Site.

Individual  Aggregated

17. All Individual Demand Sites comprising an Aggregated Demand Site shall be in one currency zone and shall have a Demand Side Unit MW Capacity of no greater than 10 MW.

Noted

**18. Please confirm that each Individual Demand Site comprising the Demand Side Unit currently has a valid Connection Agreement**

Evidence of Connection Agreement(s) showing MIC, and MEC if appropriate, must be submitted with the application as an Appendix.

Confirmed

**19. Proposed effective Date in SEM**

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**20. Proposed date for Grid Code testing<sup>2</sup>**

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**21. Please provide project milestones (to tie in with timelines for meeting operational dates). Attach relevant documentation if required.**

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**TECHNICAL DETAILS**

**22. A Demand Side Unit application must be 4 MW or more in size.**

Noted

**23. Total Demand Side Unit MW Capacity**

This is the maximum amount of Demand Side Unit MW Response that will be provided.

MW

**24. Total Demand Side Unit MW Capacity from on-site generation**

MW

**25. Total Demand Side Unit MW Capacity available from avoided Demand**

MW

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<sup>2</sup> DSU will not be available in SEM until Grid Code compliance has been successfully demonstrated.

**26. Typical aggregated peak Demand of Individual Demand Sites**

MW

**27. Initial Demand Side Unit Response Time**

The time taken by the Demand Side Unit to implement the Initial Demand Demand Side Unit Response from receipt of the Dispatch Instruction from the TSO.

Minutes

**28. Minimum Down Time**

Please see relevant Grid Code for definition.

Minutes

**29. Maximum Down Time**

The maximum period of time during which Demand Side Unit MW Response can be greater than zero.

Minutes

**30. Max Ramp Up Rate**

The maximum rate of increase in demand reduction of the Demand Side Unit.

MW/Minute

**31. Max Ramp Down Rate**

The maximum rate of decrease in demand reduction of the Demand Side Unit.

MW/Minute

**32. Please provide an attachment with details of the Demand Side Unit MW Capacity profile for the Demand Side Unit across the year (Please attach as an Appendix).**

Completed

**33. Please provide electrical configuration diagrams for each of the Individual Demand Sites (Please attach as an Appendix).**

Completed

**34. Please provide a detailed specification of the Demand Side Unit control system and method of aggregation, and the communications systems that will be in place between the Demand Side Unit and the Individual Demand Sites (Please attach as an Appendix).**

Completed

**35. Please provide Irish Grid Co-ordinates (see Appendix E for details) of the electrical connection point of each Individual Demand Site (Appendix A).**

Completed

**36. Complete the table listing the technical parameters of each Individual Demand Site in the Demand Side Unit (Appendix B).**

Completed

**37. Complete the table listing the generator information of all generators in the Demand Side Unit (Appendix C).**

Completed  N/A

**38. Please specify if a generator will be used as standby plant on a site where the main site supply has been lost (Appendix C).**

Completed  N/A

**39. Complete the table listing all single demand loads that provide a demand reduction of greater than or equal to 5 MW (Appendix D).**

Completed  N/A

**40. Are there any other restrictions to the operation of the Individual Demand Sites in the Demand Side Unit (e.g. EPA Licence or Planning Conditions)? If yes, specify below.**

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**41. Confirm that this Demand Side Unit will not be registered as or part of any other Aggregated Generator Unit or Demand Side Unit for the purposes of the Trading and Settlement Code.**

Confirmed

42. If any Individual Demand Sites that are currently registered as part of another Demand Side Unit or Aggregated Generator Unit please give details below:

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43. Please list any Individual Demand Sites that participate in the WPDRS, STAR or Powersave<sup>3</sup> Schemes (Ireland applicants only)?

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<sup>3</sup> Please note that the Powersave Scheme Rules (<http://www.eirgrid.com/media/Powersave%20Rules.pdf>) do not allow participation in a Demand Side Unit

**SIGNATURE**

I [insert name] \_\_\_\_\_, [insert position] \_\_\_\_\_ of [insert company] \_\_\_\_\_ hereby certify that all information provided in this form is correct and accurate. If there are any changes to the information provided herein, we agree to notify you in writing of the change without delay.

Signed: \_\_\_\_\_

Date: \_\_\_\_\_

**REQUIREMENTS CHECKLIST**

- Completed Demand Side Unit Application Form
- Application Fee (as advised by the TSO)
- Two Signed Confidentiality Agreements, if applicable (Ireland applicants only)
- Evidence of Connection Agreement(s) showing MIC, and MEC if appropriate
- Electrical Site Configuration Diagrams
- Signed Grid Code Acknowledgement/Compliance Declaration
- High-Level Project Milestones
- Detailed specification of the control system and method of aggregation, and the communications systems that will be in place between the DSU and the Individual Demand Sites



**Appendix A – Site information**

#	Individual Demand Site Name	MPRN	Special Operating or Network Limitations (Question 14)	Bulk Supply Point or Connection Point (Question 15)	Irish Grid Co-ordinates (Question 35)			
					Easting		Northing	
1								
2								
3								
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**Appendix B – Technical Parameters**

#	Individual Demand Site Name	MPRN	Demand Side Unit Import Capacity (MW)	Demand Side Unit Export Capacity (MW)	Demand Side Unit MW Capacity (MW)	Demand Side Unit MW Capacity - Avoided Demand (MW)	Demand Side Unit MW Capacity - Generation (MW)
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
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24							
25							
26							
27							
28							
29							
30							
<b>TOTAL</b>							

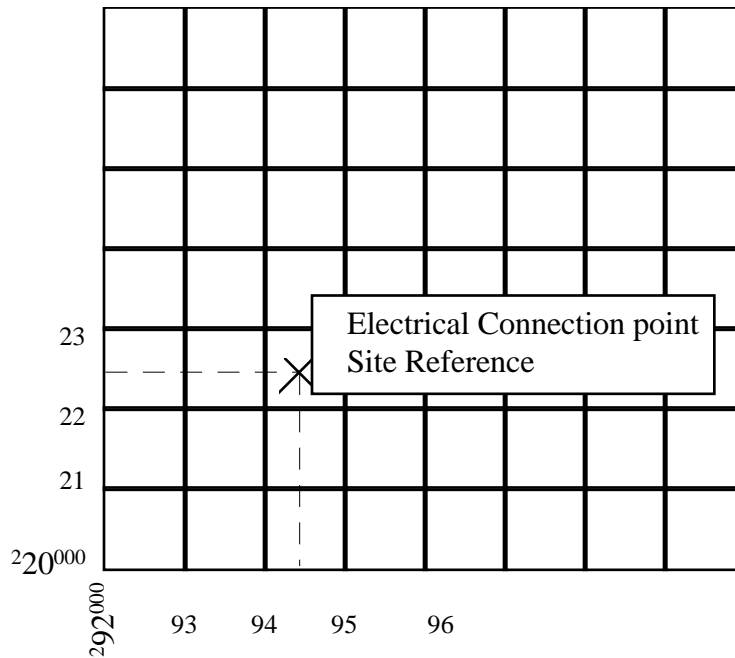
**Appendix C – Generator Information**

#	Individual Demand Site Name	MPRN	Generation Capacity of Generator (MW)	Generator Rated MVA (MVA)	Generator Fuel Type	Will this generator be used as a standby plant? (Question 38)
1						
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**Appendix D – Demand Reduction greater than or equal to 5 MW from single demand loads**

#	Individual Demand Site Name	MPRN	Type of Demand Load	Size of Demand Load (MW)	Demand Reduction from Demand Load (MW)
1					
2					
3					
4					
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**Appendix E – How to Specify Irish Grid Co-ordinates from a “Discovery Series” Ordnance Survey Map**



Site co-ordinates: Easting 294500, Northing 222500

Easting and Northing co-ordinates should be stated to six digits.  
 The co-ordinates should be labelled clearly so as to identify which is Easting and which is Northing.  
 The numbers on the horizontal axis are Easting co-ordinates.  
 The numbers on the vertical axis are Northing co-ordinates.

**Example:**

The **Easting** site co-ordinates are QYYZZZ, where:

Q refers to the first number (in superscript) of the bottom left hand corner of the map (i.e. <sup>292</sup>000 Q=2),  
 YY are the numbers on the horizontal axis directly below the site to the left (i.e. 94)

ZZZ is the actual position in the grid expressed from 0 to 999 (e.g. if half way horizontally within the grid square, the Easting number is approximately 500).

The **Northing** co-ordinates are similarly identified, except the vertical axis rather than the horizontal axis is used.

Please ensure if using digital tiles of the “Discovery Series” Ordnance Survey Map that the grid system is Irish Grid Co-ordinates.