

Data Centre Customer Connection

Connection Application Form to the Transmission System

May 2026



Introduction

This application form (version 1.0) outlines the information EirGrid requires to progress an application for connection to the Transmission System. EirGrid recommends that the applicant refers to the customers section of the website www.eirgrid.ie for further information on the application process. The website has links to other relevant documents such as the Grid Code. It should be noted that it is the applicant's responsibility to comply with the technical, design and operational standards detailed in the Grid Code.

Please note for the purpose of this application form TSO should be interpreted as: the holder of the license to operate Ireland's Transmission System (EirGrid).

Please note that this application form deals with HV connections only (≥ 110 kV) and that if an MV (≤ 110 kV) supply is required the applicant should first contact ESB Networks: Tel: +353 850 372 757, www.esb.ie

EirGrid reserves the right to request additional data if necessary and the applicant should provide such information promptly during and post the offer process.

It is EirGrid's responsibility to determine the transmission connection method. If the applicant has a specific request this will be considered and examined in the process. The selected method will be based on the overall least cost technically acceptable solution unless the Applicant requests otherwise or EirGrid requires an alternative method for system reasons.

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

Please note that payment of application fees can only be made via electronic fund transfer into the following account. Cheques are not accepted.

Bank Details:
Barclays Bank Ireland Plc
One Molesworth Street
Dublin 2
D02 RF29

Sort Code: 99-02-12
Account Name: EirGrid No 2 Account
Account Number: 42890602
Swift Code: BARCIE2D
IBAN: IE80BARC99021242890602

When the application form is completed, please send the form to the below address, or email to opmo@eirgrid.com.

EirGrid Plc.
Customer Relations
The Oval,
160 Shelbourne Road,
Ballsbridge,
Dublin 4,
D04 FW28
Ireland.

If any queries arise, please do not hesitate to contact our Customer Accounts Team at info@eirgrid.com.

Details of Applicant

1. Full name of the applicant (legal entity).

2. Parent/Holding Company, if applicable

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

Company Registration no. (If applicable)

4. Telephone Number

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5. Contact Person(s)

6. Email Address

7. a) Please confirm the Contact Address for all written correspondence (if different from above)

b) Please confirm the Customer Name, Address and Contact Details to be used on invoices for billing purposes

8. Please nominate a preferred name for this facility.

EirGrid 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.

Please refer to Appendix A for EirGrid's policy on User Site/Station Naming.

9. Please specify the address of this facility.

10. Has a pre-application meeting been held?

Yes No

If yes, please indicate the date of meeting.

If no, the application will not proceed and will be terminated.

11. Please confirm if you have achieved planning permission for the facility.

Yes No

If yes, please confirm the planning authority reference.

If no, please confirm if you have received a validated planning application for the facility.

Yes No

If yes, please confirm the planning authority reference.

If no, the application will not proceed and will be terminated.

Noted

12. It should be noted that it is the applicant's responsibility to comply with the technical design and operational standards detailed in the Grid Code.

Noted

13. Has the Applicant signed a confidentiality agreement with EirGrid?

If no, two copies have to be submitted with application form.

Confidentiality agreement templates can be found on our website, www.eirgrid.ie.

Yes No

Customer Type

14. Please state which of the following demand types applies to this application. Then fill in the relevant sections/questions which apply to that type as specified below:

A. New transmission customer, fill in questions 19 – 42.

B. Existing transmission customer with transformer changes, fill in questions 16 – 42.

C. Existing transmission customer (no transformer changes), fill in questions 16 – 27 and 36 – 42.

15. State if the applicant currently has a connection at the distribution level.

Yes No

If **yes**, please continue with question 16-18.

If **no**, proceed to question 19.

Technical Information

16. What is your existing connection point? (Please specify substation/location).

17. What is your current Maximum Import Capacity (MIC)?

Total MIC (MVA)

Data Centre MIC (MVA)

18. Please explain if your intentions are to transfer this demand to your new transmission connection and if this existing demand is included in your new transmission MIC.

19. New Maximum Import Capacity (MIC). This is the amount of importing transmission capacity that will be provided in the connection offer. (New MIC to include existing contracted MIC for existing transmission customer. Provide Total and Data Centre MIC).

Total MIC (MVA)

Data Centre MIC (MVA)

20. Based on question 19 please state the following:

Active Power P MW

Reactive Power Q MVA_r

21. Please provide details of ramp schedule (power consumption over time) the facility intends to implement. Provide graph if necessary.

22. Target Connection Date (this date will be used for connection assessment). (DD/MM/YYYY)

23. State the number of connecting circuits to the Transmission System (e.g. one, two etc.), the applicant requires for technical and/or security reasons.

Please also state any specific connection method requests e.g. the use of underground cabling or connection to a specific station etc.

Please note that while underground cabling may be quicker to build than overhead line however it is more expensive and in certain areas of the country the use of underground cabling can have impacts on the Transmission System, for example amplification of background harmonic distortion, that would require additional equipment to be installed to mitigate their impact.

Where the possibility of harmonic amplification exists more detailed studies are required during the process leading to the issuance of a Connection Offer which may not be possible to complete within the standard 90 business day timeframe. Please also note that customers pay for 50% of the least cost connection method. Customer requested connection methods above and beyond the least cost connection method are fully chargeable to customers.

Further information on this aspect of charging policy is available at:
<http://www.eirgridgroup.com/customer-and-industry/general-customer-information/connections-and-contracts/>

24. Confirm whether you wish the connection offer to issue on a contested or a non-contested basis and broadly outline the works the customer wishes to contest. Further information on contestability is available at:
<https://cms.eirgrid.ie/sites/default/files/publications/Contestability-paper-Oct-2007.pdf>

Type of Demand

The purpose of this section is to provide EirGrid with a broad knowledge of the type of demand the customer will connect.

25. Please provide a graph of the facility's Load Factor over 1 year.
Name of Attachment:

26. Please indicate if there are any items of plant which can contribute significant levels of harmonic distortion i.e. Large variable speed drives, large inverters etc. If yes, please provide a general outline.

Yes No

Name of Attachment:

27. Please indicate if your facility has any equipment that is designed to fluctuate by more than 5 MVA within a short period of time at the point of connection to the Transmission System.

If Yes, EirGrid may require further clarifications. However, these will not affect the completeness of your application.

Grid Connected Transformer Data

There are many types of transformers. This application form specifies Two Winding Transformers. All impedances should be stated in % on transformer rated MVA base.

Please note that the connection voltage is determined by EirGrid in accordance with normal standards, as detailed in the Grid Code, taking into account the particulars of each development. If the connection voltage differs from that specified in the Application, EirGrid will request new data corresponding to the new voltage level. An appropriate connection voltage will initially be examined as part of the application check.

Please note the Grid Connected Transformer specified must be compliant with section WFPS1.6.5 of the Grid Code.

If the full details are not available at the time of application EirGrid can assume values based on the expected transformer size in MVA provided by the applicant and EirGrid would make assumptions. Please note any issues with the assumptions would be at the applicants risk and the applicant will have to provide the information requested in this section and a full manufactures test report for the installed transformer prior to energisation.

Two Winding Transformers

	Transformer 1	Transformer2
28. Rating of Transformer (MVA)		
29. Transformer voltage ratio HV/ LV (kV)		
30. Transformer positive sequence resistance ($R_1\%$)		
31. Transformer positive sequence reactance ($X_1\%$)		
32. Transformer zero sequence resistance ($R_0\%$)		
33. Transformer zero sequence reactance ($X_0\%$)		
34. Transformer vector group		

35. Please provide details of tap changer.

Nature of tap changer off load/on load/off circuit)

Transformer 1: Tapped voltage winding

	kV	+	Steps	-	Steps		% Step Size
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Transformer 2: Tapped voltage winding

	kV	+	Steps	-	Steps		% Step Size
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For Three Winding Transformers, please complete Appendix B.

Additional Reactive Power Devices

36. Does the site include reactive devices or power factor correction devices on the MV side of the grid connected transformer?

Yes No

If yes, please complete questions 37-39; otherwise skip to question 40.

37. Number of inductive devices.

Indicate for each device the inductive MVar capability.

If the device has more than one stage please indicate the number of stages and the MVar capability switched in each stage.

MVar in steps

MVar in steps

38. Number of capacitive devices.

Indicate for each device the capacitive MVar capability. If the device has more than one stage please indicate the number of stages and the MVar capability switched in each stage.

MVar in steps

MVar in steps

39. Is it intended to utilise shunt compensation as harmonic filters?

Yes No

Maps and Diagrams

40. Please provide a 1:50,000 “Discovery Series” Ordnance Survey map, with the location address of the facility clearly marked. The electrical connection point must be clearly marked with an “X”.

Name of OS map attachment:

Grid co-ordinates of the electrical connection point of your site (In appendix C an example is shown of how to correctly specify the grid co-ordinates):

Easting

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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Northing

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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41. Please provide a site plan in an appropriate scale. This site plan should indicate:

- the proposed location of the connection point,
- generators,
- transformers and
- site buildings.

Note that the connection point is normally at the HV bushings of the grid connected transformer. Space for the transmission compound will have to be clearly marked on the site plan. The exact size of the compound will depend on the connection method defined in the connection offer. Site plan is to be submitted in soft copy. Site plan is to be submitted in soft copy.

Name of site plan attachment:

42. Please provide an electrical Single Line Diagram (SLD) of the proposed facility detailing all significant items of plant and their values.

- Generator transformer(s),
- power factor correction devices,
- location of alternative connection for on-site generation (if applicable) and
- grid connected transformer(s).

Name of the SLD attachment, should be submitted in soft copy.

Data Centre Classification

43. Installed IT load at full build (MW)

44. Confirm requested MIC (MVA) (as per Question 19)

Confirm DC MIC (MVA)

Confirm Generation MIC (MVA)

45. Expected energisation date of data centre facility

46. Please provide a dynamic model of the facility.

Name of attachment:

Dispatchable generation and/or storage provision

47. Confirm what type of generation shall be provided to cover data centre MIC:

Autoproducer

Dispatchable onsite
or proximate generation

Storage

Combination

If storage provide battery duration:

48. Number of Generation Units:

49. Provide details of associated generation projects.

Name of Project	ECP Batch	Technology	(MEC)	(MIC)	Location	Proposed Connection Method

50. Provide drawings and layouts to demonstrate how nominated proximate generation meets the definition/requirements (as applicable).

Name of attachment:

51. Fuel Source

Primary: _____

Secondary: _____

52. Provide details on the approach to generator fuelling arrangements where applicable (for example, type of gas connection, evidence of gas connection contracts, logistic arrangements for other fuel types etc.)

Name of attachment:

53. How will the proposed generation and/or storage meet 100% of the facility's MIC once the technology-specific derating factor is applied? Please provide supporting computation and documentation.

Name of attachment:

54. How has renewable generation been taken into account in the reduction of the derated dispatchable generation and/or storage requirement? Please provide supporting computation and documentation.

Name of attachment:

55. Does the generator have any run hour limitations?

Yes No

If yes, provide details (i.e., number of hours).

56. Has an EPA licence for the dispatchable generation already been obtained?

Yes No

If yes, attach a copy of the EPA licence to this application.

Name of attachment:

If no, please provide details of your plans or proposed approach to obtaining the licence.

Name of attachment:

57. Location of generation relative to demand site (Onsite / Proximate – specify distance and location)

58. Generation should be separately connected and metered. Provide connection application reference(s), if available.

Noted

59. Expected energisation date of generation/storage assets

Is the delivery of demand and associated generation fully aligned?

Yes No

60. Please confirm you have achieved planning permission for the generation facility before entering ECP-GSS.

Please confirm the planning authority reference.

61. Provide generation/storage ramp schedule aligned to demand ramp schedule (attachment)

Name ramp schedule attachment:

62. Confirm that full MIC ramp is contingent on delivery of associated generation/storage:

Yes No

63. Provide Director’s Declaration confirming the data centre has secured sufficient generation to match their MIC (subject to derating requirements), that the generation is not subject to run hour limitations and that the generation delivery timelines are aligned with the data centre.

Name of Attachment:

Wholesale market participation

64. The associated generation is required to participate in the SEM wholesale market.

Noted

65. SEM participant name / market participant details (if available)

Renewable electricity requirement (80% annual demand, Ireland – generated):

66. Renewable delivery mechanism?

(Onsite renewables / CPPA / Third-party renewable projects / Combination)

67. Has locational specific Dispatch Down from the latest EirGrid Constraint Forecast Analysis Reports been considered in demonstrating that the renewables can meet 80% of the data centre’s annual energy requirement?

Yes No

68. Is the generation facility repowering?

Yes No

69. Has the generation facility received a REFIT, RESS or ORESS contract?

Yes No

70. Estimated renewable contribution at full build (%) and glidepath to Year 6 having taken account of network constraints, curtailment and renewable surplus (attachment).

Name of glide path attachment:

71. Provide details of associated renewable projects / CPPAs (attachment)

Name of Project / CPPA Attachment	ECP Batch	Technology	Size (MEC)	Capacity Factor	Location

72. Please confirm if you have achieved planning permission for the renewable generation facility.

Yes No

If yes, please confirm the planning authority reference.

If no, please confirm if you have received validated planning application for the facility.

Yes No

If yes, please confirm the planning authority reference.

If no, a validated planning application is required before entering ECP-GSS.

Noted

73. Provide Director's Declaration confirming the data centre has secured sufficient renewable generation to meet 80% of the data centre's annual energy requirement having taken account of network constraints, curtailment and renewable surplus and that the delivery timelines align with the 6-year glide path

Name of attachment:

Compliance declaration:

Applicant confirms intention to comply with CRU Large Energy User Connection Policy (CRU/2025236)

Signed:

Appendixes

Appendix A:

EirGrid's policy on Station Naming,

- Station name must be unique and pronounceable for all stations,
- station name must be geographically accurate and descriptive,
- station name should be as local as possible to provide for future proofing for other stations that may locate in the same area,
- station names should be identified in the following order:
 - town land it is situated in,
 - nearby town land,
 - adjacent landmark, i.e. a mountain,
- station names should not be named after a company, any individual supplier or manufacturer as this is liable to change,
- station name must not start with the letter X as this is reserved for ETSO.

Note: Station name above applies to both the transmission station name and the users site name.

EirGrid will also assign a unique 3 character code to each generation unit which are used by various software for modelling purposes and dispatch purposes. This 3 character code is based on the user site name and the number of generators at that site.

Appendix B:

Transformer 1

	HV winding	LV1 winding	LV2 winding
B1. Transformer rated MVA			
B2. Transformer rated voltage (kV)			
B3. Transformer vector group			

Transformer 2

	HV winding	LV1 winding	LV2 winding
B4. Transformer rated MVA			
B5. Transformer rated voltage (kV)			
B6. Transformer vector group			

Clearly specify the MVA base (in space provided between brackets) which the measured impedances below are related to:

	Transformer 1	Transformer 2	Transformer 3
B7. Transformer positive sequence resistance ($R_{1HL1}\%$) between HV/LV ₁ :			
B8. Transformer positive sequence reactance ($X_{1HL1}\%$) between HV/LV ₁ :			
B9. Transformer zero sequence resistance ($R_{0HL1}\%$) between HV/LV ₁ :			
B10. Transformer zero sequence reactance ($X_{0HL1}\%$) between HV/LV ₁ :			
B11. Transformer positive sequence resistance ($R_{1HL2}\%$) between HV/LV ₂ :			
B12. Transformer positive sequence reactance ($X_{1HL2}\%$) between HV/LV ₂ :			
B13. Transformer zero sequence resistance ($R_{0HL2}\%$) between HV/LV ₂ :			
B14. Transformer zero sequence reactance ($X_{0HL2}\%$) between HV/LV ₂ :			

B15. Transformer positive sequence resistance ($R_{1L1L2}\%$) between LV ₁ /LV ₂ :			
B16. Transformer positive sequence reactance ($X_{1L1L2}\%$) between LV ₁ /LV ₂ :			
B17. Transformer zero sequence resistance ($R_{0L1L2}\%$) between LV ₁ /LV ₂ :			
B18. Transformer zero sequence reactance ($X_{0L1L2}\%$) between LV ₁ /LV ₂ :			
B19. Transformer positive sequence resistance ($R_{1HL1L2}\%$) between HV/(LV ₁ +LV ₂):			
B20. Transformer positive sequence reactance ($X_{1HL1L2}\%$) between HV/(LV ₁ +LV ₂):			

Appendix C:

Grid co-ordinates

How to define the grid co-ordinates from “Discovery Series” ordnance survey map.

Easting and Northing co-ordinates should be stated to six places.

Easting co-ordinates are the numbers on the horizontal axis.

Northing co-ordinates are the numbers on the vertical axis.

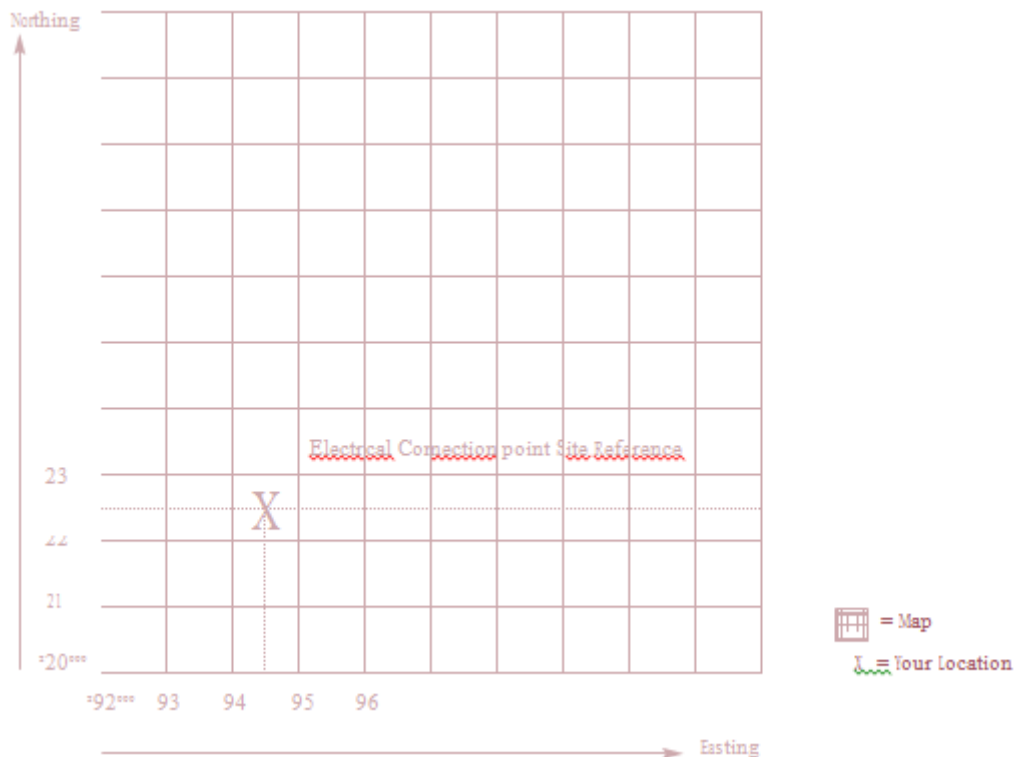


Figure 1: Example OS Map with 'X' clearly marking location of a facility.

Appendix D:

Checklist

- Application form completed in full,
- application fee,
- two signed copies of confidentiality agreement (if applicable),
- OS map 1:500 scale
- single line diagram (SLD), soft copy,
- ramp schedule,
- load factor graph for 1 year,
- details provided of equipment that contributes significant levels of harmonic distortion (if applicable) and
- appendix relevant.

Appendix E

Additional Attachments Required under CRU/2025236

- Generation/storage technical specification and location details
- Generation/storage ramp schedule aligned to demand ramp
- Evidence or plan for SEM market participation
- Renewable electricity strategy and glidepath to $\geq 80\%$
- CPPA or renewable project evidence and project details
- Evidence of EPA licence
- Directors declaration