

Biomethane Producer

Connection application form

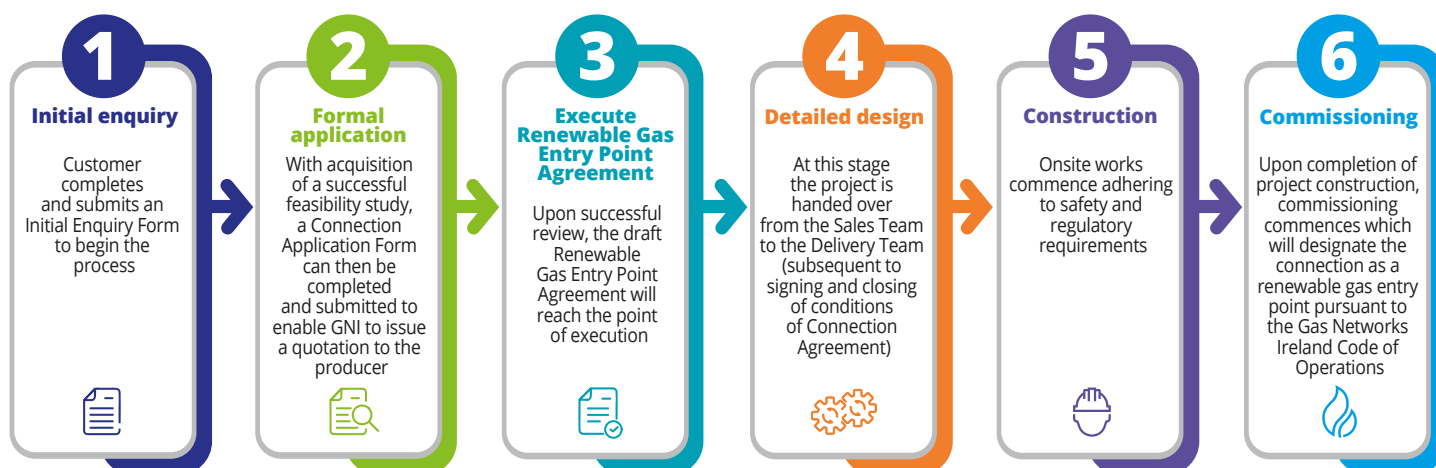


Version 4.1 January 2024

Overview

This purpose of this form is to allow interested parties to formally apply for a Renewable Gas Entry Point to the gas transportation system within the Republic of Ireland.

Process



Data and Information

The information provided in this form is required by Gas Networks Ireland (GNI) to assess the customers connection request and should be provided in full as part of their submission. It is the responsibility of the customer to ensure all information is correct at the time of submission. Where necessary, GNI reserve the right to request additional data from the customer and this should be provided in a prompt manner when requested.

Submission

Please submit a soft copy of this form to RenewableGas@gasnetworks.ie with the subject title "XXX" Renewable Gas Application where "XXX" refers to the proposed nominated name of your facility included in the application. The form should be in a PDF format along with any additional attachments required in a compressed ZIP file format.

If there are difficulties in submitting a soft copy of the application or if you have any queries in relation to this application form please contact us via e-mail at Renewablegas@gasnetworks.ie to arrange alternative means of submission.

The Application

Questions shown in *Italics* are not required for an application to be deemed complete but may help GNI in the processing of the application.

Sections 1-5 as well as Section 8 are required to be completed to the satisfaction of GNI in order to commence the assessment of a connection. Sections 6 and 7 in addition will be required for an Application to be deemed Accepted / Approved by GNI and subsequently facilitate the progression to a quotation.

Section 1: Company Information

1.1 Company name:

1.2 Company address:

1.3 Company registration number:

1.4 Designated contact person:

1.5 Contact phone number:

1.6 Contact email address:

1.7 *Alternative contact person(s):*

1.8 *Alternative contact person(s) phone number(s):*

1.9 *Alternative contact person(s) email address(s):*

Section 2: Site Location Information

2.1 Please designate a name for your project.

Note: Refer to the project naming guide on the next page when choosing a suitable project name.

2.2 Please specify the site address of your project.

2.3 Please specify the Geographic Coordinates of your proposed connection point.

Note: Refer to the connection point coordinate guide below when selecting your connection point.

Latitude:

Longitude:

2.4 Please also include a 1:50,000 Discovery Series Ordnance Survey map, with the location of your proposed connection point clearly marked with an "X" and also indicating your site boundary.

Noted: Yes

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No

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2.5 Please provide a site layout plan clearly showing all existing and proposed future developments at the site. This should be provided in both a PDF format and in an AutoCad 2015 file.

Noted: Yes

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No

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2.6 Please include where possible, pictures showing ground and environment conditions in the vicinity of your proposed connection point.

Noted: Yes

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No

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2.7 Please describe in as much detail as possible, the environmental conditions within your site boundary.

Where possible, try to identify any special engineering difficulties such as bog lands, stream crossings, special conservation areas etc. in the vicinity of your proposed connection point.

2.8 If an Environmental Impact Assessment has been undertaken at this site already, please provide this as part of the application submission.

Noted: Yes

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No

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Section 2: Site Location Information *(continued)*

2.9 Does the customer intend to enter into a trenching agreement with GNI as part of the connection process?

If yes, please describe in detail what components of the connection the client intends to provide trenching for.

Site / Enquiry Name Guidelines

The enquiry name should be representative of the site or immediate local area chosen and not the person submitting the enquiry or the business name.

Examples of good site names could be:

- **Rahan AD:** Where this is the name of a relatively local area to the anaerobic digestion (AD) location

Examples of bad site names are:

- **Kelly Consulting Engineers:** Where this donates the name of the entity submitting the enquiry but not the future limited company who will own the AD.
- **Paddy Johnson:** where this is the name of the designated contact person but not the legal entity / owner of the site.

Connection Point Coordinates Guideline

1. Choosing the correct Geographical Coordinate System

Please express coordinates in the enquiry form as Universal Transverse Mercator (UTM) Co-ordinates. An example of the coordinate system is as follows;

Latitude 53.446205, Longitude -7.897915 which should correlate roughly to Athlone.

If the customer is using a different coordinate system reference to UTM, a converter tool can be found at the link below to convert to the required format for this enquiry form;

<https://gnss.osi.ie/new-converter/>

2. Deciding on a connection point

The proposed connection point should refer to the point at which the transfer of ownership between your assets and GNIs take place. This is typically at the upstream flange of the Remotely Operated Valve within the Grid Entry Unit and will be finalised during design and agreed under the Connection Agreement.

The design and costings estimate of your connection will be based on transporting gas from your facility to the network from this point and deviations from this location could require a review of the connection design and cost estimate.

Section 3: Gas Flow Information

3.1 Specify the Maximum Hourly Injection Quantity (**MHQ**) of Biomethane anticipated for your facility (**scm/hr**).

Please refer to guidance notes below.

3.2 Specify the Minimum Hourly Injection Quantity (**MinHQ**) (CH₄) (**scm/hr**).

Note: At times the injection facility may be isolated from the network and flows will be zero.
This figure should indicate the lowest expected flows whilst connected and injecting into the network.

3.3 Please specify an assumed calorific value (CV) for the biomethane to be injected at the connection point.

Note: The minimum CV allowable under the Code is 36.9 MJ/m³.

3.4 Estimated Annual Quantity (**EAQ**) of biomethane to be injected (**GWh_{th} / annum**).

3.5 Minimum Annual Quantity (**MinAQ**) of biomethane to be injected (**GWh_{th} / annum**).

Note: This value will be used for the purposes of completing the customers economic appraisal in line with the GNI Connection Policy, as well as set the terms and conditions upon which their financial security adherence will be assessed against.

YEAR #	1	2	3	4	5	6	7	8	9	10
EAQ (GWh _{th})										

3.6 Peak Day Injection Capacity (**MWh_{th} / annum**)

Note: This figure should reflect the required capacity needed to inject the maximum total volume of gas that the customer foresees being injected at any point in a given year.

For example, if an injection point was anticipated to only operate for 12 hours a day at its Maximum Hourly Quantity then this value would be 12 x MHQ. For 24 hour operations this would be 24 x MHQ and so on.

3.7 Please provide in excel format, typical Daily and Seasonal Flow Profiles for your injection facility.

As above. This information may assist GNI in determining the cost optimal connection method for the customer.
Where no information is currently available, GNI will assume the facility is operational at its Peak Day Injection Capacity all year round.

Noted: Yes ☐ No ☐

Section 3: Gas Flow Information *(continued)*

- 3.8** Please provide details on any buffer storage capabilities (if any) you intend to install at your site that could be used to mitigate localised constraints on the network.

- 3.9** Please note that once operational and connected, if after a sustained period of time your injection point fails to ever achieve close to your requested Maximum Hourly Quantity specified then GNI may have to complete a process to reassign the network capacity to other interested third party customers.

Noted: Yes ☐ No ☐

Section 4: Project Specific Details

- 4.1** Please specify a date by which first gas flow is required:

- 4.2** Please provide in a separate document a high level programme of works showing key completion milestones for your project (e.g., design completion date, planning consents granted date, equipment procurement date, construction commence / completion dates, commissioning dates and so on. These dates will assist GNI in developing their own internal programme of works for delivery of the pipeline connection to the customer's site.

Noted: Yes ☐ No ☐

- 4.3** Please provide in as much detail as possible the type and quantities of feedstocks (tonne/annum) that will be used to produce the biomethane being injected into the gas network at your injection point. Where existing licenses are in place for this feedstock, please provide details of these also.

The type of feedstock used to produce the biomethane can impact on the risk probability of different contaminants in the gas. This information is needed for the measurement risk assessment which can impact on the type and quantity of gas analysis required at your injection point. If the client is unsure of the feedstock mix that will be used then an assumed feed mix can be applied based on a generic worst case scenario.

Section 4: Project Specific Details *(continued)*

4.4 *If known, please provide details on the type of upgrading and gas clean up equipment that will be used to clean the gas to meet the Gas Quality specification.*

If exact equipment is not known at this stage but the type of technology to be used (e.g. membrane, pressure swing absorption, amine scrubbing, water wash etc.) is known, please specify the type.

The type of clean up equipment used to produce the biomethane can impact on the risk probability of different contaminants in the gas. This information is needed for the measurement risk assessment which can impact on the type and quantity of gas analysis required at your injection point. If the client is unsure of the equipment that will be used then an assumed technology can be applied based on worst case assumptions.

4.5 *Where available please attach the following supplementary information with your application form:*

- Detailed specifications and manuals of your proposed site equipment including gas production, clean-up, upgrading, pressure regulation and injection equipment.*
- Piping and instrumentation diagrams for the injection site.*
- Any other miscellaneous design documentation available.*

Noted: Yes ☐ No ☐

4.6 *If this project is anticipated to be part of a number of future phases, please provide details on these likely future phases below.*

PHASE #	Description	Max Hourly Flow (scm/hr) – Accumulative	Likely Date Required by
1			
2			
3			
4			

Section 4: Project Specific Details *(continued)*

- 4.7** If this project is planned to be part of a number of future phases then in some instances it may make sense to initially design certain aspects of the connection on the basis of a future or final gas flow volume.

Note 1: Choosing a larger design volume will not reserve extra capacity on the gas network for future phases as this will be allocated on a first come first served basis to customers who contract to use it. It can however avoid the need for a second future pipeline extension and / or upgrading of equipment at the injection site should future phases proceed as planned.

Note 2: If there is a difference in cost between the GNI assessed least cost connection method and connection cost based on customers proposed design volume quantities, the additional costings between the two are 100% payable in line with the current GNI Connection Policy.

Please specify what design volume the client wishes GNI to design the connection method to? (scm/hr)

- 4.8** If this project is an extension or a modification to an existing contracted or connected project, please provide the project number of the original project.

- 4.9** *If the customer has a preferred proposed connection method, please provide details on this below. For example, a client may prefer a transmission connection method if they foresee a risk of local demand constraint or they may prefer the nearest pipeline which is likely to keep constraint within X% per annum.*

Note: GNI will consider this request when designing the optimal connection method for this site. However, it is at GNI's discretion to decide on what the final connection method will be. Any additional costings between the GNI deemed least cost connection method and the customer preferred connection will be 100% payable by the customer as per the current GNI connection policy.

- 4.10** *Please include any other relevant general details relating to your project below.*

Section 5: Financial Details

- 5.1** Please note that you will be required to put in place financial security for your project upon signing a connection agreement for your project. Financial Security will be applied in line with the [Gas Networks Ireland Financial Security Policy](#)

Noted: Yes ☐ No ☐

- 5.2** Please note that as part of this application you will be required to provide a payment of €10,000 excl. VAT.

Note: Payment of the associated application fee is a necessary requirement for an application to be deemed complete by GNI.

Noted: Yes ☐ No ☐

- 5.3** Some applicants may require GNI to be set up as a supplier in order to progress the payment of the associated application and future fees as part of this connection process. If this is required by your company, please attach the relevant supplier form details to this application and indicate below that this is required to be populated and returned by GNI.

Noted: Yes ☐ No ☐

Section 6: Planning Consent Details

- 6.1** Please confirm that planning consents for all required equipment within the specified site boundary to produce, purify and ensure the gas is suitable for injection into the gas grid has been sought.

Noted: Yes ☐ No ☐

- 6.2** Planning Reference Number

- 6.3** Planning Consents Submission Date

- 6.4** Current Status of Planning Consents

- 6.5** If planning consents have been granted, please specify the planning expiry date

- 6.6** If for some reason planning permission is not required for internal works at your facility, please provide details as to why this is the case?

Section 6: Planning Consents Details *(continued)*

- 6.7** Please note that if an applicant makes a false, misleading or inaccurate declaration in respect of their planning permission status, this would violate the terms and conditions of the Connection Agreement and could result in the termination of any contractual arrangements with GNI at a later stage in the project.

Noted: Yes ☐ No ☐

Section 7: Landowner Consents Details

- 7.1** Please confirm that landowner consent for all of the required equipment within the specified site boundary to produce, purify and ensure the gas is suitable for injection into the gas grid has been granted.

Please note this includes any consents required for the construction of the AD production facility plant and equipment at the site, gas purification equipment, gas compression and / or pressure reduction equipment, Network Entry facility and internal pipework required to tie-in to the gas grid.

Noted: Yes ☐ No ☐

- 7.2** Please note if an applicant makes a false, misleading or inaccurate declaration in respect of landowner consents, this would violate the terms and conditions of the Connection Agreement and could result in the termination of any contractual arrangements with GNI at a later stage in the project.

Noted: Yes ☐ No ☐

- 7.3** Please note the applicant will be required to ensure all applicable landowner consents are retrieved and transferred to GNI for any equipment that will be owned by GNI and located within the client's site boundary.

Noted: Yes ☐ No ☐

- 7.4** Please ensure you have filled in the Wayleaves Land Owner ID Form in the appendix of this application form for all relevant landowners within the site boundary.

Noted: Yes ☐ No ☐

Section 8: Sign Off

8.1 I / We confirm that the information contained within this application and associated application pack is at the time of signing this form correct and truthful to the best of my / our knowledge and agree to the terms and conditions set out within the application itself.

Confirm: Yes ☐ No ☐

8.2 From time to time, Gas Networks Ireland may be required to share details of an application received with the Commission for Regulation of Utilities. Please confirm your consent to do so.

Confirm: Yes ☐ No ☐

8.3 Signature of Applicant

8.4 Date

8.5 Full name (BLOCK CAPITALS)

8.6 Capacity / Role (Organisation)

8.7 Signature of Witness

8.8 Date

8.9 Address of Witness

Application Checklist

Fully Completed Application Form

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Payment of the application fee of €10,000 excl. VAT.

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1:50,000 Discovery Series Ordnance Survey map, with the location of your proposed connection point clearly marked with an "X" and indicating your site boundary.

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Site layout plan (PDF and AutoCad 2015) clearly showing all existing and proposed future developments at the site.

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Photos showing ground and environment conditions in the vicinity of your proposed connection point (if available).

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Indicative Daily and Seasonal Injection Flow Profiles (in excel format)

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A high-level programme of works showing key completion milestone dates.

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Where available please attach the following:

- Detailed Specifications and manuals of your proposed site equipment including gas production, clean-up, upgrading, pressure regulation and injection equipment.*
- Piping and instrumentation diagrams for the injection site.*
- Any other miscellaneous design documentation available.*

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Customer Supplier Form (if required by the client to make payments).

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Wayleaves Landowner ID Form for all relevant landowners within site boundary.

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Land Owner ID Form

Land Owner Details

Land owner name:

Land owner address:

Contact phone number:

Solicitor Details

Company:

Acting Solicitor:

Address:

Contact phone numbers:

Developer Details

Company:

Developer:

Address:

Contact phone numbers:

Management Company Details

Management Agent or Company:

Contact name:

Address:

Contact phone numbers:

Block capitals only

Land Owner ID Form

Any other comments / information pertaining to land owners.