



An Coimisiún  
um Rialáil Fóntas  
**Commission for  
Regulation of Utilities**

# **Gas Networks Ireland's 2018 Network Development Plan**

## **Information Note**

**CRU-18-036**

**27<sup>th</sup> February 2018**

## Information Notice: GNI's 2018 Network Development Plan

In accordance with Article 22 of EU Directive 2009/73/EC ("the Directive")<sup>1</sup> and Part 4 of Statutory Instrument S.I.16 of 2015,<sup>2</sup> Gas Networks Ireland (GNI), as Ireland's gas Transmission System Operator is required to publish on an annual basis a ten-year Network Development Plan (NDP).

As part of the ten-year NDP development process, GNI is required to make reasonable assumptions about the evolution of gas production, supply, consumption and exchanges with other countries. Consequently, GNI submits on an annual basis a questionnaire (see Appendix One) to selected market participants in order to elicit information for the preparation of the forthcoming ten-year NDP.

From a regulatory perspective, the CRU is required, inter-alia, to consult all actual or potential system users regarding the ten-year NDP in an open and transparent manner. Therefore, the CRU has prepared this Information Notice, as a means of informing all actual or potential system users of GNI's questionnaire for the development of the ten-year NDP.

Specifically, persons or undertakings who consider themselves to be such actual or potential system users who have not, thus far, been contacted by GNI are requested to make themselves known to the CRU. As Ireland transitions to a low carbon economy potential system users could be existing and emerging technologies, such as Biogas, Compressed Natural Gas, Power to Gas or other technologies.<sup>3</sup>

Any request to be contacted by GNI regarding its questionnaire should be forwarded to the CRU by 12<sup>th</sup> March 2018.

Responses in electronic format are preferred and may be sent to [pbyrne@cru.ie](mailto:pbyrne@cru.ie)

Alternatively, responses can be sent to:

Paul Byrne  
Commission for Regulation of Utilities,  
The Grain House, The Exchange,  
Belgard Square North,  
Tallaght, Dublin 24

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<sup>1</sup> EU Directive 2009/73/EC: concerning common rules for the internal market in natural gas

<sup>2</sup> S.I.16 of 2015: European Communities (Internal Market in Natural Gas and Electricity) (Amendment) Regulations.

<sup>3</sup> Persons or undertakings claiming to be potential gas transmission system users may be required to substantiate such claims.

## Appendix One: Questionnaire for Network Development Plan

### Questionnaire for Network Development Plan 2018

Gas Networks Ireland is responsible for developing maintaining and operating the gas transmission and distribution systems. Our core purpose is to ensure that over 680,000 homes and businesses receive a safe, efficient and secure supply of natural gas, 24 hours a day, 365 days a year.

Gas Networks Ireland publishes the Network Development Plan (NDP) on an annual basis. The NDP provides a view of how the gas network will develop over a ten-year period. It is based on existing supply and demand for gas, as well as projections for growth in gas infrastructure and consumption. The document also examines system operation and consequent capital investment requirements. The ten-year period facilitates the planning and development of the gas network, which can involve long lead times in the delivery of infrastructure projects.

The 2018 NDP will cover the ten-year period from 2017/18 to 2026/27. The NDP satisfies the requirements of Article 22 of Directive 2009/73/EC of the European Parliament to produce a long-term development plan. The publication of the Network Development Plan also satisfies the requirements of Article 19 of the Gas (Interim) (Regulations) Act 2002, as amended by the European Communities (Security of Natural Gas Supply) Regulations 2007 (S.I. No. 697 of 2007).

Any information provided is for the sole purposes of the 2018 Gas Networks Ireland NDP and will be treated as confidential.

Please complete the following questionnaire and return by **Tuesday, 13<sup>th</sup> of March 2018** to:

Stephen O’Riordan,  
Gas Networks Ireland,  
Gasworks Road,  
Cork.

Phone: 353 21 4534850

Fax: 353 21 4534001

Email: [stephen.oriordan@gasnetworks.ie](mailto:stephen.oriordan@gasnetworks.ie)

**1 CONTACT DETAILS**

|                  |  |
|------------------|--|
| Company Name     |  |
| Contact Name:    |  |
| Contact Address: |  |
| Telephone:       |  |
| Email Address:   |  |

## **2. TYPE OF MARKET PARTICIPANT**

Please complete all sections that apply.

- |                         |                       |
|-------------------------|-----------------------|
| Gas Producer            | (please complete 3.1) |
| Gas Storage             | (please complete 3.2) |
| LNG Supplier            | (please complete 3.3) |
| Gas Shipper             | (please complete 3.4) |
| Gas Exporter to NI      | (please complete 3.5) |
| Gas Consumer            | (please complete 3.6) |
| Infrastructure Projects | (please complete 3.7) |

### 3. DETAIL OF FORECASTS

#### 3.1 Gas Producer

|  |  |
|--|--|
| Company Name                                 |  |
| Production Site                              |  |
| Commissioning Date (if applicable)           |  |
| De-commissioning Date (if applicable)        |  |
| Connection Point                             |  |
| Average Calorific Value (MJ/m <sup>3</sup> ) |  |

Please provide the following field specific information for each of the supply years 2017/18 to 2026/27.

List all Supplies

| Field Name | Status<br>(Producing/under<br>development/new<br>discovery) | Estimated Total<br>Field Reserves<br>(bcm) | % Interest | Entry Point | Calorific Value<br>(MJ/m <sup>3</sup> ) |
|------------|---|--|------------|-------------|---|
|            |   |  |            |             |   |

Forecast Annual Supply (bcm) for your share of the field detailed above.

| Year | 17/18 | 18/19 | 19/20 | 20/21 | 21/22 | 22/23 | 23/24 | 24/25 | 25/26 | 26/27 |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|      |       |       |       |       |       |       |       |       |       |       |

Please report annual volumes for year commencing 1<sup>st</sup> October.



Forecast Average Daily Supply (mcm per day) for your share of the field detailed above

| Month     | 17/18 | 18/19 | 19/20 | 20/21 | 21/22 | 22/23 | 23/24 | 24/25 | 25/26 | 26/27 |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| October   |       |       |       |       |       |       |       |       |       |       |
| November  |       |       |       |       |       |       |       |       |       |       |
| December  |       |       |       |       |       |       |       |       |       |       |
| January   |       |       |       |       |       |       |       |       |       |       |
| February  |       |       |       |       |       |       |       |       |       |       |
| March     |       |       |       |       |       |       |       |       |       |       |
| April     |       |       |       |       |       |       |       |       |       |       |
| May       |       |       |       |       |       |       |       |       |       |       |
| June      |       |       |       |       |       |       |       |       |       |       |
| July      |       |       |       |       |       |       |       |       |       |       |
| August    |       |       |       |       |       |       |       |       |       |       |
| September |       |       |       |       |       |       |       |       |       |       |

Gas Composition (molecular %) for the field detailed above

| Field | Methane | N2 | CO2 | H2S | Others |
|-------|---------|----|-----|-----|--------|
|       |         |    |     |     |        |

Please state the minimum pressure at which you intend to offer gas at the transmission system entry point:

.....



**Supply Shortfall Measures**

Is it possible to increase output from the field into the transmission system on a short-term basis (days) in the event of a supply shortfall from another entry point?

.....

**Additional Relevant Information**

Please state any additional relevant information.

.....

.....

.....

.....

.....

### 3.2 Gas Storage

Please provide a separate sheet for each storage facility.

|   |  |
|---|--|
| Company Name  |  |
| Storage Facility  |  |
| Type of Facility (depleted field/salt cavity/LNG/other) |  |
| Commissioning Date (if applicable)                      |  |
| De-commissioning Date (if applicable)                   |  |
| Connection Point  |  |
| Average Calorific Value (MJ/m <sup>3</sup> )            |  |

Please provide the following information for each of the supply years:

| Field                        | 17/18 | 18/19 | 19/20 | 20/21 | 21/22 | 22/23 | 23/24 | 24/25 | 25/26 | 26/27 |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Deliverability (mcm per day) |       |       |       |       |       |       |       |       |       |       |
| Injectability (mcm per day)  |       |       |       |       |       |       |       |       |       |       |
| Total Storage Capacity (mcm) |       |       |       |       |       |       |       |       |       |       |

Please state the minimum pressure at the connection point at the gas will be delivered:

.....

Please state the minimum pressures needed for injection from connection point:

.....

**Additional Relevant Information**

Please state any additional relevant information.

.....

**3.3 LNG Supplier**

|  |  |
|--|--|
| Company Name                                 |  |
| Facility Name                                |  |
| Commissioning Date (if applicable)           |  |
| De-commissioning Date (if applicable)        |  |
| Connection Point                             |  |
| Average Calorific Value (MJ/m <sup>3</sup> ) |  |

Please provide the following information for each of the supply years 2017/18 to 2026/27.

## Forecast Annual Supply (bcm) for the LNG Terminal

| LNG Terminal | 17/18 | 18/19 | 19/20 | 20/21 | 21/22 | 22/23 | 23/24 | 24/25 | 25/26 | 26/27 |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|              |       |       |       |       |       |       |       |       |       |       |
|              |       |       |       |       |       |       |       |       |       |       |

Please report annual volumes for year commencing 1<sup>st</sup> October.

## Forecast Maximum Daily Supply (mcm per day) for the LNG Terminal

| LNG Terminal | 17/18 | 18/19 | 19/20 | 20/21 | 21/22 | 22/23 | 23/24 | 24/25 | 25/26 | 26/27 |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|              |       |       |       |       |       |       |       |       |       |       |
|              |       |       |       |       |       |       |       |       |       |       |

Please report annual volumes for year commencing 1<sup>st</sup> October.

## Forecast Average Daily Supply (mcm per day) for the LNG Terminal

Network Development Plan 2018

| LNG Terminal | 17/18 | 18/19 | 19/20 | 20/21 | 21/22 | 22/23 | 23/24 | 24/25 | 25/26 | 26/27 |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|              |       |       |       |       |       |       |       |       |       |       |
|              |       |       |       |       |       |       |       |       |       |       |

Please report annual volumes for year commencing 1<sup>st</sup> October.

Forecast Maximum Daily Capacity (mcm per day) for the LNG Terminal

| LNG Terminal | 17/18 | 18/19 | 19/20 | 20/21 | 21/22 | 22/23 | 23/24 | 24/25 | 25/26 | 26/27 |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|              |       |       |       |       |       |       |       |       |       |       |
|              |       |       |       |       |       |       |       |       |       |       |

Please report annual volumes for year commencing 1<sup>st</sup> October.

Gas Composition (molecular %) Calorific Value Range

| LNG Terminal | Methane | N2 | CO2 | H2S | Others |
|--------------|---------|----|-----|-----|--------|
|              |         |    |     |     |        |
|              |         |    |     |     |        |

Please state the Wobbe Index range of the gas you intend to offer gas at the transmission system entry point:

.....

Please state the minimum pressure at which you intend to offer gas at the transmission system entry point:

.....

**Supply Shortfall Measures**

Is it possible to increase output from the field into the transmission system on a short term basis (days) in the event of a supply shortfall from another entry point?

.....

**Additional Relevant Information**

Please state any additional relevant information.

.....

**3.4 Gas Shipper**

|              |  |
|--------------|--|
| Company Name |  |
|--------------|--|

**Measures to Meet Peak Demand**

What measures have you put in place for purchasing natural gas to meet peak day demand?

.....

Please provide the following information for each of the supply years 2017/18 to 2026/27.

Forecast Annual Supply (bcm)

| Entry Point  | 17/18 | 18/19 | 19/20 | 20/21 | 21/22 | 22/23 | 23/24 | 24/25 | 25/26 | 26/27 |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Corrib       |       |       |       |       |       |       |       |       |       |       |
| Inch         |       |       |       |       |       |       |       |       |       |       |
| Moffat       |       |       |       |       |       |       |       |       |       |       |
| <b>Total</b> |       |       |       |       |       |       |       |       |       |       |

Please report for year commencing 1<sup>st</sup> October.

Forecast Maximum Daily Supply (mcm per day)

| Entry Point  | 17/18 | 18/19 | 19/20 | 20/21 | 21/22 | 22/23 | 23/24 | 24/25 | 25/26 | 26/27 |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Corrib       |       |       |       |       |       |       |       |       |       |       |
| Inch         |       |       |       |       |       |       |       |       |       |       |
| Moffat       |       |       |       |       |       |       |       |       |       |       |
| <b>Total</b> |       |       |       |       |       |       |       |       |       |       |

Please report for year commencing 1<sup>st</sup> October.

Please provide details of forecast total demand, broken down by category of customer.

Key to category of customer

| Type       | Annual consumption (mcm)  | Annual Consumption (MWh)*         |
|------------|---------------------------|-----------------------------------|
| Very Large | > 135 mcm                 | > 1,500,000 MWh                   |
| Large      | > 25 but < 135 mcm        | >260,000 MWh but < 1,500, 000 MWh |
| Medium     | > 5 but < 25 mcm          | >57,500 MWh but < 260,000 MWh     |
| Small      | > 0.5 but < 5 mcm         | > 5,500 MWh but < 57,500 MWh      |
| Non TPA    | All consumption < 0.5 mcm | All consumption <5,500 MWh        |

\*Conversion using an average CV of 37.6 MJ/m<sup>3</sup>

Forecast Annual Demand (mcm, or MWh please state.....)

| Eligible Customer Type | 17/18 | 18/19 | 19/20 | 20/21 | 21/22 | 22/23 | 23/24 | 24/25 | 25/26 | 26/27 |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Very Large             |       |       |       |       |       |       |       |       |       |       |
| Large                  |       |       |       |       |       |       |       |       |       |       |
| Medium                 |       |       |       |       |       |       |       |       |       |       |
| Small                  |       |       |       |       |       |       |       |       |       |       |
| Non TPA                |       |       |       |       |       |       |       |       |       |       |
| TOTAL                  |       |       |       |       |       |       |       |       |       |       |

Please report for year commencing 1<sup>st</sup> October.



Forecast Maximum Daily Demand (mcm/day, or MWh/day please state.....)

| Eligible Customer Type | 17/18 | 18/19 | 19/20 | 20/21 | 21/22 | 22/23 | 23/24 | 24/25 | 25/26 | 26/27 |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Very Large             |       |       |       |       |       |       |       |       |       |       |
| Large                  |       |       |       |       |       |       |       |       |       |       |
| Medium                 |       |       |       |       |       |       |       |       |       |       |
| Small                  |       |       |       |       |       |       |       |       |       |       |
| Non TPA                |       |       |       |       |       |       |       |       |       |       |
| TOTAL                  |       |       |       |       |       |       |       |       |       |       |

Please report for year commencing 1<sup>st</sup> October.

Within the total demand figures provided, please identify any newly connected demand (e.g. conversion of oil-fired plant)

| Name | Location | Start-up date | Annual Quantity<br>(units mcm or<br>MWh<br>.....) | Maximum Daily<br>Quantity<br>(units mcm/day<br>or MWh/day<br>.....) |
|------|----------|---------------|---|---|
|      |          |               |   |   |
|      |          |               |   |   |
|      |          |               |   |   |

#### Additional Relevant Information

Please state any additional relevant information.

### 3.5 Gas Exporter to Northern Ireland

|              |  |
|--------------|--|
| Company Name |  |
|--------------|--|

Please provide the following information for each of the supply years 2017/18 to 2026/27.

#### Forecast Annual Supply (bcm)

| Exit Point | 17/18 | 18/19 | 19/20 | 20/21 | 21/22 | 22/23 | 23/24 | 24/25 | 25/26 | 26/27 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            |       |       |       |       |       |       |       |       |       |       |
|            |       |       |       |       |       |       |       |       |       |       |
|            |       |       |       |       |       |       |       |       |       |       |

Please report for year commencing 1<sup>st</sup> October.

#### Forecast Maximum Daily Supply (mcm per day)

| Exit Point | 17/18 | 18/19 | 19/20 | 20/21 | 21/22 | 22/23 | 23/24 | 24/25 | 25/26 | 26/27 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            |       |       |       |       |       |       |       |       |       |       |
|            |       |       |       |       |       |       |       |       |       |       |
|            |       |       |       |       |       |       |       |       |       |       |

Please report for year commencing 1<sup>st</sup> October.

#### Additional Relevant Information

Please state any additional relevant information.

.....

### 3.6 Gas Consumer

#### 3.6.1 Gas Consumer – Non-power Generation

Please complete a separate sheet for each site.

|              |  |
|--------------|--|
| Company Name |  |
| Site Address |  |

What is the primary use for gas at the site (heating/process/power generation)? [Where this is power generation, please complete section 3.6.2 below.]

.....

Please provide a forecast of your annual gas consumption (in MWh<sup>4</sup> per annum)

|                          | 17/18 | 18/19 | 19/20 | 20/21 | 21/22 | 22/23 | 23/24 | 24/25 | 25/26 | 26/27 |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Annual consumption (MWh) |       |       |       |       |       |       |       |       |       |       |

Please provide a forecast of your peak day gas consumption (in MWh per day)

|                                | 17/18 | 18/19 | 19/20 | 20/21 | 21/22 | 22/23 | 23/24 | 24/25 | 25/26 | 26/27 |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Peak Day consumption (MWh/day) |       |       |       |       |       |       |       |       |       |       |

Does the existing site have access to an alternative fuel source (and therefore could take an interruptible gas supply)? If yes, please indicate the proportion of site load which is capable of interruption, and the maximum period of interruption in days.

.....

<sup>4</sup> Footnote: conversion factor 1 therm = 0.0293 MWh

**Additional Information** (for example, if the site is a new load give the expected start date):

.....

**3.6.2 Gas Consumer – Power Generation**

Please indicate the type and capacity of the plant (CCGT/OCGT/Steam/CHP):

.....

Please indicate the efficiency of the plant:

.....

Please indicate whether the plant is dual firing.

.....

If yes, what is the alternate fuel? Please indicate how many days (at full load) of the alternate fuel is stored at the site.

.....

What is the load factor of the plant?

.....

What is the unit's gross output per annum (GWh)?

.....

### 3.7 Infrastructure Projects

Under the Trans-European energy infrastructure Regulation (EU) No 347/2013, project promoters can submit major infrastructure projects to be identified as Projects of Common Interest (PCI). PCI status will provide projects with fast-tracked consenting processes and the possibility of financial assistance from Europe.

In accordance with EU legislation, any project promoter wishing to obtain PCI status for a project must include the project in the national plan, in this case the Network Development Plan, which in turn will feed into the European-wide Ten Year Network Development Plan (TYNDP). The TYNDP will be the basis for the identification of PCIs.

Please give details of any projects that you would like included in the Network Development Plan. State what type of project it is i.e. pipeline, LNG, storage or production. Also provide a time schedule for the project and the probable date of commissioning.



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