



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

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# Information Notice: GNI's Ten-Year Network Development Plan 2021

**Commission for Regulation of Utilities**

## Information Notice

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# Information Notice: GNI's Ten-Year Network Development Plan 2021

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 (TYNDP).

As part of the TYNDP 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 1) to selected market participants in order to elicit information for the preparation of the forthcoming TYNDP. GNI circulated this questionnaire, in reference to TYNDP 2021, to market participants on the 1<sup>st</sup> March 2021.

The CRU is required to consult all actual or potential system users regarding the TYNDP 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 TYNDP 2021.

If a person or an undertaking, who considers themselves to be an actual or potential system user have not yet been contacted by GNI, the CRU would request such users to make themselves known to the CRU. Entities who apply emerging technologies may also be viewed as potential system users.<sup>3</sup>

Any request to be contacted by GNI regarding its questionnaire shall be forwarded to the CRU by 29<sup>th</sup> March 2021. The CRU will consult on GNI’s draft TYNDP later in the year.

All responses are to be sent in electronic format to Amber Raut [araut@cru.ie](mailto:araut@cru.ie) by 29<sup>th</sup> March 2021.

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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 1: GNI's Questionnaire for Network Development Plan 2021

Gas Networks Ireland is responsible for developing maintaining and operating the gas transmission and distribution systems. Our core purpose is to ensure that c. 700,000 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 2021 NDP will cover the 10 year period from 2020/21 to 2029/30. The NDP satisfies GNI requirement, as Transmission System Operator (TSO), to submit a ten-year Network Development Plan to the CRU in accordance with Article 22 of EU Directive 2009/73/EC and Article 11 of S.I. No. 16/2015 - European Communities (Internal Market in Natural Gas and Electricity) (Amendment) Regulations 2015. The NDP also satisfies the requirement to submit a long term development statement to the CRU in accordance with condition 11 of its Transmission System Operator license.

The publication of the Network Development Plan facilitates compliance with the requirements of Section 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), which requires the CRU to monitor and publish a report outlining gas supply and demand in Ireland over seven years.

Any information provided is for the sole purposes of the 2021 Gas Networks Ireland NDP and will be treated as confidential.

Please complete the following questionnaire and return by **Monday, 15<sup>th</sup> of March 2021** to:

Tom Lyons,  
Gas Networks Ireland,  
Gasworks Road,  
Cork.

Phone: +353 21 4534600

Email: [ndp@gasnetworks.ie](mailto:ndp@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 gas year 2020/21 to 2029/30.

| 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 | 20/21 | 21/22 | 22/23 | 23/24 | 24/25 | 25/26 | 26/27 | 27/28 | 28/29 | 29/30 |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|      |       |       |       |       |       |       |       |       |       |       |

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

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

| <b>Month</b> | <b>20/21</b> | <b>21/22</b> | <b>22/23</b> | <b>23/24</b> | <b>24/25</b> | <b>25/26</b> | <b>26/27</b> | <b>27/28</b> | <b>28/29</b> | <b>29/30</b> |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| October      |              |              |              |              |              |              |              |              |              |              |
| November     |              |              |              |              |              |              |              |              |              |              |
| December     |              |              |              |              |              |              |              |              |              |              |
| January      |              |              |              |              |              |              |              |              |              |              |
| February     |              |              |              |              |              |              |              |              |              |              |
| March        |              |              |              |              |              |              |              |              |              |              |
| April        |              |              |              |              |              |              |              |              |              |              |
| May          |              |              |              |              |              |              |              |              |              |              |
| June         |              |              |              |              |              |              |              |              |              |              |
| July         |              |              |              |              |              |              |              |              |              |              |
| August       |              |              |              |              |              |              |              |              |              |              |
| September    |              |              |              |              |              |              |              |              |              |              |

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

| Month     | 20/21 | 21/22 | 22/23 | 23/24 | 24/25 | 25/26 | 26/27 | 27/28 | 28/29 | 29/30 |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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 gas supply years:

| Field                            | 20/21 | 21/22 | 22/23 | 23/24 | 24/25 | 25/26 | 26/27 | 27/28 | 28/29 | 29/30 |
|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Deliverability (mcm per day)     |       |       |       |       |       |       |       |       |       |       |
| Injection Capacity (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/m3)       |  |

Please provide the following information for each of the gas supply years 2020/21 to 2029/30.

Forecast Annual Supply (bcm) for the LNG Terminal

| LNG Terminal | 20/21 | 21/22 | 22/23 | 23/24 | 24/25 | 25/26 | 26/27 | 27/28 | 28/29 | 29/30 |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|              |       |       |       |       |       |       |       |       |       |       |
|              |       |       |       |       |       |       |       |       |       |       |

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

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

| LNG Terminal | 20/21 | 21/22 | 22/23 | 23/24 | 24/25 | 25/26 | 26/27 | 27/28 | 28/29 | 29/30 |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|              |       |       |       |       |       |       |       |       |       |       |
|              |       |       |       |       |       |       |       |       |       |       |

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

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

| LNG Terminal | 20/21 | 21/22 | 22/23 | 23/24 | 24/25 | 25/26 | 26/27 | 27/28 | 28/29 | 29/30 |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|              |       |       |       |       |       |       |       |       |       |       |
|              |       |       |       |       |       |       |       |       |       |       |

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

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

| LNG Terminal | 20/21 | 21/22 | 22/23 | 23/24 | 24/25 | 25/26 | 26/27 | 27/28 | 28/29 | 29/30 |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|              |       |       |       |       |       |       |       |       |       |       |
|              |       |       |       |       |       |       |       |       |       |       |

Please report annual volumes for gas 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:

.....

Please state the Minimum Daily Capacity (mcm per day) for the LNG Terminal

.....

**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 gas years 2020/21 to 2029/30.

Forecast Annual Supply (bcm)

| Entry Point  | 20/21 | 21/22 | 22/23 | 23/24 | 24/25 | 25/26 | 26/27 | 27/28 | 28/29 | 29/30 |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Corrib       |       |       |       |       |       |       |       |       |       |       |
| Inch         |       |       |       |       |       |       |       |       |       |       |
| Moffat       |       |       |       |       |       |       |       |       |       |       |
| <b>Total</b> |       |       |       |       |       |       |       |       |       |       |

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

Forecast Maximum Daily Supply (mcm per day)

| Entry Point  | 20/21 | 21/22 | 22/23 | 23/24 | 24/25 | 25/26 | 26/27 | 27/28 | 28/29 | 29/30 |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Corrib       |       |       |       |       |       |       |       |       |       |       |
| Inch         |       |       |       |       |       |       |       |       |       |       |
| Moffat       |       |       |       |       |       |       |       |       |       |       |
| <b>Total</b> |       |       |       |       |       |       |       |       |       |       |

Please report for gas 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 | 20/21 | 21/22 | 22/23 | 23/24 | 24/25 | 25/26 | 26/27 | 27/28 | 28/29 | 29/30 |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Very Large             |       |       |       |       |       |       |       |       |       |       |
| Large                  |       |       |       |       |       |       |       |       |       |       |
| Medium                 |       |       |       |       |       |       |       |       |       |       |
| Small                  |       |       |       |       |       |       |       |       |       |       |
| Non TPA                |       |       |       |       |       |       |       |       |       |       |
| TOTAL                  |       |       |       |       |       |       |       |       |       |       |

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

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

| Eligible Customer Type | 20/21 | 21/22 | 22/23 | 23/24 | 24/25 | 25/26 | 26/27 | 27/28 | 28/29 | 29/30 |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Very Large             |       |       |       |       |       |       |       |       |       |       |
| Large                  |       |       |       |       |       |       |       |       |       |       |
| Medium                 |       |       |       |       |       |       |       |       |       |       |
| Small                  |       |       |       |       |       |       |       |       |       |       |
| Non TPA                |       |       |       |       |       |       |       |       |       |       |
| <b>TOTAL</b>           |       |       |       |       |       |       |       |       |       |       |

Please report for gas 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 MWh) | Maximum Daily Quantity<br>(units mcm/day or MWh/day) |
|------|----------|---------------|---------------------------------------|--|
|      |          |               |                                       |  |
|      |          |               |                                       |  |
|      |          |               |                                       |  |

#### 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 gas supply years 2020/21 to 2029/30.

#### Forecast Annual Supply (bcm)

| Exit Point | 20/21 | 21/22 | 22/23 | 23/24 | 24/25 | 25/26 | 26/27 | 27/28 | 28/29 | 29/30 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            |       |       |       |       |       |       |       |       |       |       |
|            |       |       |       |       |       |       |       |       |       |       |
|            |       |       |       |       |       |       |       |       |       |       |

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

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

| Exit Point | 20/21 | 21/22 | 22/23 | 23/24 | 24/25 | 25/26 | 26/27 | 27/28 | 28/29 | 29/30 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|            |       |       |       |       |       |       |       |       |       |       |
|            |       |       |       |       |       |       |       |       |       |       |
|            |       |       |       |       |       |       |       |       |       |       |

Please report for gas 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)

|                                 | 20/21 | 21/22 | 22/23 | 23/24 | 24/25 | 25/26 | 26/27 | 27/28 | 28/29 | 29/30 |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Annual consumption (MWh)</b> |       |       |       |       |       |       |       |       |       |       |

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

|                                       | 20/21 | 21/22 | 22/23 | 23/24 | 24/25 | 25/26 | 26/27 | 27/28 | 28/29 | 29/30 |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Peak Day consumption (MWh/day)</b> |       |       |       |       |       |       |       |       |       |       |

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.

.....

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

.....

---

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



### 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