## Firstgas

#### **REGULATORY DISCLOSURE**

# Gas transmission services: Capacity allocation methodology and transmission system capacity reservations

Year ended 30 September 2020





#### Introduction

First Gas Limited (Firstgas) operates 2,500 kilometres of gas transmission pipelines (including the Maui pipeline), and more than 4,800 kilometres of gas distribution pipelines across the North Island. These gas infrastructure assets transport gas from Taranaki to major industrial gas users, electricity generators, businesses and homes, and transport around 20 percent of New Zealand's primary energy supply.

For further information on Firstgas, please visit our website www.firstgas.co.nz.

First Gas Limited is part of the Firstgas Group. The Firstgas Group owns energy infrastructure assets across New Zealand through our affiliate Gas Services NZ Limited (GSNZ), a separate business with common shareholders that owns Rockgas and the Ahuroa gas storage facility.

Rockgas has over 80 years' experience and provides LPG to 100,000 customers throughout New Zealand. It is New Zealand's largest LPG retail business and supplies its customers with LPG from both domestic and imported sources. Visit the website <a href="www.rockgas.co.nz">www.rockgas.co.nz</a>. The Ahuroa gas storage facility (trading as Flexgas Limited) is New Zealand's only open access gas storage facility. Visit the website <a href="www.flexgas.co.nz">www.flexgas.co.nz</a>.

#### **Compliance statement**

This document is a regulatory disclosure prepared pursuant to sections 2.5.3 and 2.5.4 of the *Gas Transmission Information Disclosure Determination (No.1) 2017* consolidating all amendments as of 3 April 2018 issued by the Commerce Commission. The regulatory disclosure covers Firstgas' transmission business (both the Maui and Non-Maui transmission systems) for the 12-month period ending 30 September 2020.

The capacity allocation methodology and system capacity reservation information in this disclosure refers to the Non-Maui gas transmission system. The Maui transmission system is managed under the Maui Pipeline Operating Code (MPOC). The shippers on the Maui line nominate their requirements daily. This forms the capacity for that day. There is no forward commitment on a firm capacity basis and capacity is not reserved on the Maui transmission system.

This regulatory disclosure was prepared on 12 March 2021.

#### **Further information**

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#### 1. Capacity allocation methodology

#### 1.1 Current capacity allocation methodologies (clause 2.5.3(1)(a))

Firstgas currently provides two types of firm contractual transmission capacity to Shippers<sup>1</sup> - Reserved Capacity and Supplementary Capacity.

**Reserved Capacity** is Firstgas' standard capacity product, and is allocated in accordance with the relevant provisions of the Vector Transmission Code (the Code):

- (I) Prior to the start of each contract year<sup>2</sup> and
- (II) During each contract year

in response to Shippers' specific requests, to the limit of uncommitted operational capacity.<sup>3</sup> The processes involved in (i) and (ii) above are separately described below. Under the current Code, a Shipper retains the right to use any Reserved Capacity allocated to it unless and until that Shipper relinquishes it.<sup>4</sup>

**Supplementary Capacity** is firm transmission capacity that Firstgas provides to a Shipper under a Supplementary Agreement, in compliance with specific provisions of the Code. Since Firstgas is under no obligation to provide Supplementary Capacity, the Reserved Capacity allocation process set out in the Code does not apply to Supplementary Capacity. Supplementary Capacity is available to a Shipper only for the term of the relevant Supplementary Agreement.

Reserved Capacity and Supplementary Capacity are equally "firm", so Firstgas must take both into account when determining uncommitted operational capacity.

#### 1.1.1.Allocation of Reserved Capacity before the start of a contract year

Under the Code:

- 1) All Shippers must notify Firstgas of their Confirmed Reservation Requirements<sup>5</sup> by 5pm on the second Friday in September.
- 2) A Shipper is entitled to reserve up to the amount of Reserved Capacity it holds at any Receipt-Point-Delivery Point<sup>6</sup> (RP – DP) on the second Friday in September, although it may request more or less. A Shipper may request Reserved Capacity at a RP – DP irrespective of whether it currently has any capacity there.
- 3) Firstgas must notify Shippers of the extent to which it accepts their Confirmed Reservation Requirements by 5pm on the third Friday in September. This requires First Gas to determine the uncommitted operational capacity available, taking into account such things as:
  - (I) The amounts of Reserved Capacity requested compared with the amounts currently allocated;
  - (II) Changes in the distribution of Reserved Capacity, i.e. the extent to which requests for less Reserved Capacity at some RP-DPs offset requests for more at others
  - (III) Changes in Supplementary Capacity (if any)
  - (IV) How much capacity was allocated in prior years and where;

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<sup>&</sup>lt;sup>1</sup> A shipper is a person named in a transmission services agreement with First Gas. Only Shippers may hold transmission capacity. The Information Disclosure Determination refers to Shippers as "consumers".

<sup>&</sup>lt;sup>2</sup> Being the year commencing on 1 October in year "n" and ending on 30 September in year "n+1".

<sup>&</sup>lt;sup>3</sup> Uncommitted operational capacity is the amount of a pipeline's physical capacity available to be allocated to Shippers, and is equal to: operational capacity – aggregate contractual (firm) capacity. The determination of operational capacity is described in Firstgas' "Gas Transmission Asset Management Plan – 2020" (*AMP*), available at <a href="www.firstgas.co.nz/About-Us/Regulatory/Transmission">www.firstgas.co.nz/About-Us/Regulatory/Transmission</a>.

<sup>&</sup>lt;sup>4</sup> Either by not reserving it again, trading it to another Shipper or cancelling it in accordance with the Code.

<sup>&</sup>lt;sup>5</sup> Under the Code, Shippers must lodge non-binding Provisional Reservation Requirements earlier each year.

<sup>&</sup>lt;sup>6</sup> In this disclosure, Code terms are used, i.e.: Receipt Point = intake point; Delivery Point = offtake point.



- (V) The most recent pipeline modelling information, e.g. in the Asset Management Plan (AMP) and
- (VI) The maximum capacity of individual Receipt and Delivery Points.
- 4) If it believes there is insufficient uncommitted operational capacity for it to approve all Shippers' requests for Reserved Capacity,<sup>7</sup> Firstgas must apply the capacity allocation procedure set out in the Code. Briefly, that process would work as follows:
  - (I) Any Shipper requesting the same amount of, or less Reserved Capacity than it currently holds at an RP-DP would be allocated that amount
  - (II) First Gas would then determine the extent of uncommitted operational capacity available by referencing the AMP or any other relevant pipeline modelling information or, if necessary, undertaking additional modelling
  - (III) First Gas would then allocate increased Reserved Capacity to the relevant Shippers in accordance with the following formula:
    - increase = (Shipper's requested increase for an RP-DP ÷ All Shippers' requested increases for all RP-DPs on the pipeline) × uncommitted operational capacity and
  - (IV) Firstgas would then check that any allocated increases in Reserved Capacity could actually be delivered via the relevant Delivery Points.<sup>8</sup> If not, capacity above the maximum that could be delivered would be re-allocated to other RP-DPs by a further iteration of the above formula.

#### 1.1.2. Allocation of Reserved Capacity during a year

#### Under the Code:

- 1) A Shipper may request Reserved Capacity, or additional Reserved Capacity during a year, e.g., if it acquires new customers, or if one or more existing customers increase their load.
- 2) A Shipper must apply for additional Reserved Capacity using the appropriate screen on OATIS.<sup>9</sup> Firstgas must approve (or decline) any such request via OATIS.
- 3) Firstgas must approve any such request (subject to the conditions set out in the Code) where it believes there is sufficient uncommitted operational capacity. To ascertain that, Firstgas considers:
  - (I) the relevant matters listed in paragraph (3) of the previous section; and
  - (II) any capacity transfer requests (to or from the RP-DP in question, or any other RP-DP relevant to the request) approved but not yet effective; and
  - (III) existing queued requests for capacity (if any).
- 4) Should it decline a request for additional capacity, Firstgas would (subject to the Code and the wishes of the Shipper concerned) place the request in the capacity queue for the relevant pipeline. If capacity subsequently became available, e.g., if a Shipper applied to cancel Reserved Capacity or to transfer Reserved Capacity elsewhere (including out of the pipeline altogether), Firstgas would offer additional Reserved Capacity to Shippers in the capacity queue, in accordance with the Code.

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<sup>&</sup>lt;sup>7</sup> Namely, where Firstgas reasonably believed that a breach of its Security Standard (e.g. by the pressure at a critical point in a pipeline falling below the acceptable minimum) could result.

<sup>&</sup>lt;sup>8</sup> This would be necessary because a Shipper might request a "disproportionate" amount of additional capacity at the far end of a pipeline. The first pass of the allocation formula could then produce an unsustainable outcome. This reflects the reality that it is unrealistic to represent the uncommitted operational capacity of a pipeline by a single number: where capacity is required would change any such number

<sup>&</sup>lt;sup>9</sup> Firstgas' "Open Access Transmission Information System", at www.oatis.co.nz.



#### 1.2 Approved requests for capacity (clause 2.5.3(1)(b))

During the disclosure year there was **sufficient uncommitted operational capacity** to meet all Shippers' requests for Reserved Capacity:

- (I) Confirmed Reservation Requirements for 2017-18: approved in full
- (II) Requests for additional Reserved Capacity: 124
- (III) Requests for additional Reserved Capacity approved in full: 124 and
- (IV) Requests for additional Reserved Capacity approved in part: zero.

#### 1.3 Unmet demand for capacity (clause 2.5.3(1)(c))

During the disclosure year there was no unmet demand for Reserved Capacity:

- (I) Requests for Reserved Capacity declined: zero
- (II) Maximum daily quantities associated with requests declined: zero and
- (III) Reasons for requests not being approved in full: not applicable.



#### 2. Transmission system capacity reservations

- Tables 1 6 below set out the information required to be disclosed in accordance with clause 2.5.4 of the Information Disclosure Determination, for each of Firstgas' Non- Maui transmission pipeline systems.
- 2) The named offtake points (= Delivery Points) for each pipeline system are those which, in the system peak flow period, satisfied one or more of the criteria set out in clause 2.5.4(3)(a) (c); i.e.:
  - (I) Throughput ≥ 2,000 GJ
  - (II) Contractual firm capacity ≥ 10,000 GJ (per day) or
  - (III) Nominal delivery pressure > 20 bar gauge.

The relevant offtake points are those identified in Firstgas' "Pipeline Peak Flow Disclosure" for 2020. That disclosure refers to actual offtake points, whereas for commercial/contractual reasons some such points are aggregated into "notional" offtake points. An example is "Greater Auckland", which currently comprises 5 actual offtake points. Since this capacity disclosure is concerned with contractual capacity, Tables 1 – 6 show data for notional/contractual offtake points.

- 3) For all offtake points on a pipeline system that did not satisfy any of the criteria set out in clause 2.5.4(3)(a) – (c), data was aggregated in accordance with clause 2.5.4(3)(d) of the Information Disclosure Determination and appears in the tables on the line labelled "All Other Points".
- 4) Data is given for the three dates specified in clause 2.5.4(4), i.e.:
  - (I) The last day of the preceding pricing year (i.e., 30 September 2020);
  - (II) The first day of the new pricing year (i.e., 1 October of 2020); and
  - (III) The first day of each system's peak flow period for the preceding pricing year (i.e., the year ending 30 September 2020).
- 5) Firm contractual transmission capacity in respect of each offtake point comprises Reserved Capacity plus Supplementary Capacity (if any).
- 6) The MDQ (maximum daily quantity) and MHQ (maximum hourly quantity), respectively, for each offtake point correspond to the aggregate amount of firm contractual transmission capacity in each case. For Reserved Capacity, the MHQ is currently 1/16th of MDQ. For Supplementary Capacity, the MHQ can be a different fraction of MDQ, hence actual MHQs were obtained from the actual contracts.
- 7) MDQ and MHQ values have been rounded up to the nearest GJ.

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<sup>&</sup>lt;sup>10</sup> Available at <a href="https://www.firstgas.co.nz/About-Us/Regulatory/Transmission">www.firstgas.co.nz/About-Us/Regulatory/Transmission</a>.



North system TABLE 1:

| Offtake Point    |     |             |            |            |            |
|------------------|-----|-------------|------------|------------|------------|
|                  |     | 30-Sep-2020 | 1-Oct-2020 | 3-Jul-2020 | > 20 bar g |
| Harrisville 2    | MDQ | 1,453       | 1,103      | 1,453      |            |
|                  | MHQ | 91          | 69         | 91         |            |
| Drury 1          | MDQ | 669         | 846        | 669        |            |
|                  | MHQ | 42          | 53         | 42         |            |
| Hunua (all)      | MDQ | 1,513       | 1,143      | 1,513      |            |
|                  | MHQ | 95          | 71         | 95         | Note 1     |
| Flat Bush        | MDQ | 1,584       | 1,588      | 1,584      |            |
|                  | MHQ | 99          | 99         | 99         |            |
| Greater Auckland | MDQ | 38,870      | 45,583     | 43,030     |            |
|                  | MHQ | 2,684       | 3,334      | 3,152      | Note 2     |
| Marsden 1        | MDQ | 13,600      | 11,040     | 14,800     |            |
|                  | MHQ | 850         | 690        | 925        | 21.0 bar g |
| Kauri DF         | MDQ | 2,600       | 2,600      | 1,300      |            |
|                  | MHQ | 130         | 130        | 65         |            |
| Waitoki          | MDQ | 586         | 873        | 586        |            |
|                  | MHQ | 37          | 55         | 37         |            |
| Glenbrook        | MDQ | 6,379       | 6,250      | 7,100      |            |
|                  | MHQ | -           | -          | -          |            |
| Warkworth        | MDQ | 1,555       | 1,568      | 1,555      |            |
|                  | MHQ | 97          | 98         | 97         |            |
| Tuakau 2         | MDQ | 3,270       | 4,977      | 3,622      |            |
|                  | MHQ | 204         | 311        | 226        |            |
| Whangarei        | MDQ | 388         | 525        | 428        |            |
|                  | MHQ | 24          | 32         | 26         |            |
| Maungaturoto DF  | MDQ | 2,400       | 2,400      | 1,200      | N. C.      |
|                  | MHQ | 120         | 120        | 60         | Note 3     |
| Major Points     | MDQ | 74,868      | 80,495     | 78,840     |            |
|                  | MHQ | 4,472       | 5,062      | 4,915      | ]          |
|                  |     |             |            |            |            |
| All Other Points | MDQ | 612         | 572        | 612        |            |
|                  | MHQ | 101         | 98         | 70         |            |
|                  |     |             |            |            |            |



| Total   | MDQ                                                                                                                                                                                                                                            | 75,480 | 81,067 | 79,452 |  |  |  |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|--------|--|--|--|
|         | MHQ                                                                                                                                                                                                                                            | 4,573  | 5,160  | 4,984  |  |  |  |
|         |                                                                                                                                                                                                                                                |        |        |        |  |  |  |
| Note 1: | Note 1: Hunua (all) includes the Hunua, Hunua (Nova) and Hunua 3 Delivery Points. At Hunua 3 Firstgas delivers gas at pipeline pressure (ie unregulated)                                                                                       |        |        |        |  |  |  |
| Note 2: | Greater Auckland is a notional Delivery Point, comprising the actual Westfield, Papakura, Bruce McLaren, Waikumete and Henderson Delivery Points                                                                                               |        |        |        |  |  |  |
| Note 3: | Transmission capacity is provided to Kauri DF and Maungaturoto DF under a single non-standard agreement. The MDQ for the 2 Delivery Points varies seasonally between 2,500 and 5,000 GJ. The MHQ at either Delivery Point is limited to 130 GJ |        |        |        |  |  |  |



Table 2: Central north system

| Offtake Point                                                                                                                           |     | Aggregate Firm Contractual Transmission Capacity (GJ) Held by All Shippers on: |            |             |            |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------|------------|-------------|------------|--|
|                                                                                                                                         |     | 30-Sep-2020                                                                    | 1-Oct-2020 | 11-Sep-2020 | > 20 bar g |  |
| Greater Hamilton                                                                                                                        | MDQ | 5,138                                                                          | 6,336      | 5,138       |            |  |
|                                                                                                                                         | MHQ | 321                                                                            | 396        | 321         | Note 1     |  |
| Tatuanui DF                                                                                                                             | MDQ | 1,500                                                                          | 1,500      | 1,500       |            |  |
|                                                                                                                                         | MHQ | 94                                                                             | 94         | 94          |            |  |
| Waitoa                                                                                                                                  | MDQ | 1,143                                                                          | 1,199      | 1,143       |            |  |
|                                                                                                                                         | MHQ | 71                                                                             | 75         | 71          |            |  |
| Cambridge                                                                                                                               | MDQ | 1,947                                                                          | 2,174      | 1,947       |            |  |
|                                                                                                                                         | MHQ | 122                                                                            | 136        | 122         |            |  |
| Kiwitahi 1 (Peroxide)                                                                                                                   | MDQ | 1,000                                                                          | 1,000      | 1,000       |            |  |
|                                                                                                                                         | MHQ | 63                                                                             | 63         | 63          |            |  |
| Te Rapa Cogen                                                                                                                           | MDQ | 23,200                                                                         | 23,200     | 23,200      |            |  |
|                                                                                                                                         | MHQ | 1,092                                                                          | 1,092      | 1,092       | 22.5 bar g |  |
| Morrinsville DF                                                                                                                         | MDQ | 300                                                                            | 1,000      | 300         |            |  |
|                                                                                                                                         | MHQ | 19                                                                             | 63         | 19          |            |  |
| Major Points                                                                                                                            | MDQ | 34,228                                                                         | 36,409     | 34,228      |            |  |
|                                                                                                                                         | MHQ | 1,781                                                                          | 1,918      | 1,781       |            |  |
|                                                                                                                                         |     |                                                                                |            |             |            |  |
| All Other Points                                                                                                                        | MDQ | 2,929                                                                          | 1,697      | 2,929       |            |  |
|                                                                                                                                         | MHQ | 183                                                                            | 106        | 183         |            |  |
|                                                                                                                                         |     |                                                                                | 1          | 1           |            |  |
| TOTAL SYSTEM                                                                                                                            | MDQ | 37,156                                                                         | 38,106     | 37,156      |            |  |
|                                                                                                                                         | MHQ | 1,964                                                                          | 2,024      | 1,964       |            |  |
|                                                                                                                                         |     |                                                                                |            |             |            |  |
| lote 1: Greater Hamilton is a notional Delivery Point, comprising the ac<br>Hamilton (Te Kowhai) and Hamilton (Temple View) Delivery Po |     |                                                                                |            |             |            |  |



Table 3: Central south system

| Offtake Point    |           | Aggregate Firm Contractual Transmission Capacity GJ) Held by All Shippers (on: |                    |             |            |
|------------------|-----------|--------------------------------------------------------------------------------|--------------------|-------------|------------|
|                  |           | 30-Sep-2020                                                                    | 1-Oct-2020         | 31-Jan-2020 | > 20 bar g |
| New Plymouth     | MDQ       | 2,174                                                                          | 2,525              | 2,340       |            |
|                  | MHQ       | 136                                                                            | 158                | 146         |            |
| Pokuru 2         | MDQ       | -                                                                              | -                  | -           | Note 4     |
|                  | MHQ       | -                                                                              | -                  | -           | Note 1     |
| Major Points     | MDQ       | 2,174                                                                          | 2,525              | 2,340       |            |
|                  | MHQ       | 136                                                                            | 158                | 146         |            |
|                  |           |                                                                                |                    |             |            |
| All Other Points | MDQ       | 1,190                                                                          | 1,384              | 1,212       |            |
|                  | MHQ       | 74                                                                             | 87                 | 76          |            |
|                  |           |                                                                                |                    |             |            |
| TOTAL SYSTEM     | MDQ       | 3,364                                                                          | 3,909              | 3,552       |            |
|                  | MHQ       | 210                                                                            | 244                | 222         |            |
|                  |           |                                                                                |                    |             |            |
| Note 1:          | Pokuru re | fers to the Pokuru                                                             | ı 2 Delivery Point |             |            |



Table 4: **Bay of Plenty system** 

| Offtake Point           | Aggregate Firm Contractual Transmission Capacity (GJ) Held by All Shippers on:                                |                                                      |              |             |            |
|-------------------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------|-------------|------------|
|                         |                                                                                                               |                                                      |              |             |            |
|                         |                                                                                                               | 30-Sep-2020                                          | 1-Oct-2020   | 25-Oct-2019 | > 20 bar g |
| Lichfield DF            | MDQ                                                                                                           | 1,785                                                | 1,900        | 1,850       | > 20 Dai g |
|                         | MHQ                                                                                                           | 112                                                  | 119          | 116         | _          |
| Lichfield 2             | MDQ                                                                                                           | 3,712                                                | 3,850        | 3,900       |            |
|                         | MHQ                                                                                                           | 232                                                  | 241          | 244         | _          |
| Edgecumbe DF            | MDQ                                                                                                           | 4,517                                                | 4,597        | 4,647       |            |
|                         | MHQ                                                                                                           | 282                                                  | 287          | 290         | _          |
| Reporoa                 | MDQ                                                                                                           | 1,526                                                | 2,016        | 1,964       |            |
|                         | MHQ                                                                                                           | 95                                                   | 126          | 123         | _          |
| Whakatane               | MDQ                                                                                                           | 3,619                                                | 3,647        | 3,631       |            |
|                         | MHQ                                                                                                           | 226                                                  | 228          | 227         | _          |
| Tirau DF                | MDQ                                                                                                           | 853                                                  | 1,450        | 1,200       |            |
|                         | MHQ                                                                                                           | 53                                                   | 91           | 75          | _          |
| Kinleith (Pulp & Paper) | MDQ                                                                                                           | -                                                    | -            | -           |            |
| Kinleith (Pulp & Paper) | MHQ                                                                                                           | -                                                    | -            | -           | _          |
| Kawerau (Pulp & Paper)  | MDQ                                                                                                           | 1,840                                                | 1,680        | 1,200       |            |
| Kawerau (Pulp & Paper)  | MHQ                                                                                                           | 115                                                  | 105          | 75          |            |
| Kawerau (Tissue)        | MDQ                                                                                                           | 640                                                  | 580          | 640         |            |
| Kawerau (Tissue)        | MHQ                                                                                                           | 40                                                   | 36           | 40          |            |
| Greater Tauranga        | MDQ                                                                                                           | 952                                                  | 1,458        | 910         |            |
|                         | MHQ                                                                                                           | 60                                                   | 91           | 57          | Note 1     |
| Gisborne                | MDQ                                                                                                           | 711                                                  | 1,353        | 1,134       |            |
|                         | MHQ                                                                                                           | 44                                                   | 85           | 71          |            |
| Greater Mt Maunganui    | MDQ                                                                                                           | 2,316                                                | 2,783        | 2,329       |            |
|                         | MHQ                                                                                                           | 145                                                  | 174          | 146         | Note 2     |
| Rotorua                 | MDQ                                                                                                           | 1,048                                                | 1,425        | 989         |            |
|                         | MHQ                                                                                                           | 65                                                   | 89           | 62          |            |
| Major Points            | MDQ                                                                                                           | 23,519                                               | 26,739       | 24,393      |            |
|                         | MHQ                                                                                                           | 1,470                                                | 1,671        | 1,525       |            |
|                         |                                                                                                               |                                                      |              |             |            |
| All Other Points        | MDQ                                                                                                           | 13,199                                               | 13,693       | 14,365      | _          |
|                         | MHQ                                                                                                           | 825                                                  | 856          | 898         | _          |
|                         |                                                                                                               |                                                      | <u>I</u>     |             | -          |
| TOTAL SYSTEM            | MDQ                                                                                                           | 36,718                                               | 40,432       | 38,758      | 1          |
|                         | MHQ                                                                                                           | 2,295                                                | 2,527        | 2,422       | -          |
| Offtake Point           |                                                                                                               | Aggregate Firm<br>Transmission C<br>Held by All Ship | apacity (GJ) |             |            |
| Note 1:                 | Greater Tauranga is a notional Delivery Point, comprising the actual Tauranga and Pyes Pa Delivery Points     |                                                      |              |             |            |
| Note 2:                 | Greater Mt Maunganui is a notional Delivery Point, comprising the ac<br>Maunganui and Papamoa Delivery Points |                                                      |              |             |            |



Table 5: South system

| Offtake Point       | Aggregate Firm Contractual Transmission Capacity (GJ) Held by All Shippers on: |                                                                           |            |            |            |  |
|---------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------|------------|------------|--|
|                     |                                                                                | 30-Sep-2020                                                               | 1-Oct-2020 | 3-Jul-2020 | > 20 bar g |  |
| Paraparaumu         | MDQ                                                                            | -                                                                         | -          | -          | 2 Lo bai g |  |
|                     | MHQ                                                                            | -                                                                         | -          | -          |            |  |
| Hawera (all)        | MDQ                                                                            | 726                                                                       | 1,528      | 726        |            |  |
|                     | MHQ                                                                            | 45                                                                        | 96         | 45         | Note 1     |  |
| Wanganui            | MDQ                                                                            | 3,681                                                                     | 4,361      | 4,081      |            |  |
|                     | MHQ                                                                            | 230                                                                       | 273        | 255        |            |  |
| Greater Kapiti      | MDQ                                                                            | 401                                                                       | 892        | 401        |            |  |
|                     | MHQ                                                                            | 25                                                                        | 56         | 25         | Note 4     |  |
| Marton              | MDQ                                                                            | 817                                                                       | 804        | 817        |            |  |
|                     | MHQ                                                                            | 51                                                                        | 50         | 51         |            |  |
| Palmerston North    | MDQ                                                                            | 2,479                                                                     | 3,522      | 3,229      |            |  |
|                     | MHQ                                                                            | 155                                                                       | 220        | 202        |            |  |
| Longburn            | MDQ                                                                            | 608                                                                       | 846        | 512        |            |  |
|                     | MHQ                                                                            | 38                                                                        | 53         | 32         |            |  |
| Levin               | MDQ                                                                            | 733                                                                       | 1,034      | 773        |            |  |
|                     | MHQ                                                                            | 46                                                                        | 65         | 48         |            |  |
| Belmont             | MDQ                                                                            | 3,963                                                                     | 5,169      | 5,347      |            |  |
|                     | MHQ                                                                            | 248                                                                       | 323        | 334        |            |  |
| Pahiatua DF         | MDQ                                                                            | 3,760                                                                     | 3,300      | 866        |            |  |
|                     | MHQ                                                                            | 235                                                                       | 206        | 54         |            |  |
| Feilding            | MDQ                                                                            | 645                                                                       | 868        | 865        |            |  |
|                     | MHQ                                                                            | 40                                                                        | 54         | 54         |            |  |
| Hastings (all)      | MDQ                                                                            | 6,503                                                                     | 6,183      | 6,673      |            |  |
|                     | MHQ                                                                            | 406                                                                       | 386        | 417        | Note 2     |  |
| Tawa (A+B)          | MDQ                                                                            | 7,645                                                                     | 8,863      | 8,873      |            |  |
|                     | MHQ                                                                            | 478                                                                       | 554        | 555        |            |  |
| Greater Waitangirua | MDQ                                                                            | 1,113                                                                     | 1,551      | 1,230      |            |  |
|                     | MHQ                                                                            | 70                                                                        | 97         | 77         | Note 3     |  |
| Major Points        | MDQ                                                                            | 33,072                                                                    | 38,919     | 34,393     |            |  |
|                     | MHQ                                                                            | 2,067                                                                     | 2,432      | 2,150      |            |  |
|                     |                                                                                |                                                                           |            |            |            |  |
| All Other Points    | MDQ                                                                            | 1,873                                                                     | 2,098      | 1,956      |            |  |
|                     | MHQ                                                                            | 117                                                                       | 131        | 122        |            |  |
|                     |                                                                                | 1                                                                         | ı          |            |            |  |
| TOTAL SYSTEM        | MDQ                                                                            | 34,945                                                                    | 41,018     | 36,348     |            |  |
|                     | MHQ                                                                            | 2,184                                                                     | 2,564      | 2,272      |            |  |
|                     |                                                                                |                                                                           |            |            |            |  |
| Note 1:             | Hawera (all) refers to the Hawera and Hawera (Nova) Delivery Points            |                                                                           |            |            |            |  |
| Note 2:             | -                                                                              | Hastings (all) refers to the Hastings and Hastings (Nova) Delivery Points |            |            |            |  |



| Note 3: | Greater Waitiangirua is a notional Delivery Point, comprising the actual Waitangirua and Pauatahanui 1 Delivery Points |
|---------|------------------------------------------------------------------------------------------------------------------------|
| Note 4: | Greater Kapiti is a notional Delivery Point, comprising the actual Waikanae 2 and Paraparaumu. Effective 01/10/2019    |



Table 6: Frankley Road system

| Offtake Point    | Aggregate Firm Contractual Transmission<br>Capacity (GJ) Held by All Shippers on:                                                     |                                                                 |                   |                   |                |  |  |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------|-------------------|----------------|--|--|
|                  |                                                                                                                                       | 30-Sep-2020                                                     | 1-Oct-2020        | 17-Jul-2020       | > 20 bar g     |  |  |
| Frankley Road-Bi | MDQ                                                                                                                                   | 208,200                                                         | 43,000            | 208,200           |                |  |  |
|                  | MHQ                                                                                                                                   | 10,410                                                          | 2,150             | 10,410            | Note 1         |  |  |
| Kaimiro          | MDQ                                                                                                                                   | -                                                               | -                 | -                 |                |  |  |
|                  | MHQ                                                                                                                                   | -                                                               | -                 | -                 |                |  |  |
| Stratford 2      | MDQ                                                                                                                                   | 50,000                                                          | -                 | 50,000            |                |  |  |
|                  | MHQ                                                                                                                                   | 2,500                                                           | -                 | 2,500             | Note 2         |  |  |
| Ammonia-Urea     | MDQ                                                                                                                                   | -                                                               | -                 | -                 | Note 3         |  |  |
|                  | MHQ                                                                                                                                   | -                                                               | -                 | -                 | 29 - 30 bar g  |  |  |
| Kapuni GTP       | MDQ                                                                                                                                   | 25,000                                                          | 25,000            | 25,000            |                |  |  |
|                  | MHQ                                                                                                                                   | 1,250                                                           | 1,250             | 1,250             | 39 bar g       |  |  |
| Stratford 3      | MDQ                                                                                                                                   | 56,000                                                          | -                 | 56,000            |                |  |  |
|                  | MHQ                                                                                                                                   | 2,333                                                           | -                 | 2,333             | Note 4         |  |  |
| TCC              | MDQ                                                                                                                                   | 64,000                                                          | -                 | 64,000            |                |  |  |
|                  | MHQ                                                                                                                                   | 2,840                                                           | -                 | 2,840             | Note 5         |  |  |
| Major Points     | MDQ                                                                                                                                   | 403,200                                                         | 68,000            | 403,200           |                |  |  |
|                  | MHQ                                                                                                                                   | 19,333                                                          | 3,400             | 19,333            |                |  |  |
|                  |                                                                                                                                       |                                                                 |                   |                   |                |  |  |
| All Other Points | MDQ                                                                                                                                   | -                                                               | -                 | -                 |                |  |  |
|                  | MHQ                                                                                                                                   | -                                                               | -                 | -                 |                |  |  |
| TOTAL CVCTEM     | MDQ                                                                                                                                   | 403,200                                                         | 68,000            | 403,200           |                |  |  |
| TOTAL SYSTEM     | MHQ                                                                                                                                   | 19,333                                                          | 3,400             | 19,333            |                |  |  |
|                  | IVIIIQ                                                                                                                                | 19,000                                                          | 0,400             | 19,000            |                |  |  |
| Note 1:          | The pres                                                                                                                              | sure at Frankley R                                              | load equals the p | ressure in the Ma | aui Pipeline.  |  |  |
| Note 2:          |                                                                                                                                       | 2 supplies the Stra                                             |                   | ower station. FGL | _ delivers gas |  |  |
| Note 3:          | there at pipeline (ie unregulated) pressure  Ammonia-Urea comprises the Ballance 8201 (fuel) and 9626 (process gas)  Delivery Points. |                                                                 |                   |                   |                |  |  |
| Note 4:          | Stratford                                                                                                                             | Stratford 3 is for gas going to the Ahuroa gas storage facility |                   |                   |                |  |  |
| Note 5:          | FGL delivers gas to the TCC at pipeline (ie unregulated) pressure                                                                     |                                                                 |                   |                   |                |  |  |