

## GNI Distribution Tariffs for Gas Year 2019/20

The following charges for standard service on the GNI Distribution System will apply from the 1<sup>st</sup> October 2019 to the 30<sup>th</sup> September 2020. These charges have been prepared by the Commission for Regulation of Utilities (“CRU”) as outlined in the CRU decision of the 31<sup>st</sup> May 2019 (CRU/19/062).

In order to avoid anomalies between similar type users (i.e. eliminate extreme discrete differences), a set of regression formulae have been developed in order to return the requisite revenue from the 2019/20 market capacities and volumes. The tables below illustrate the distribution tariff charges for 2015/16 as they pertain to the various market categories.

### Capacity Charges

Category by Annual Quantity	Capacity Charge (c/peak day kWh)
<=73 MWh	149.6290
> 73 MWh - <=14,653 MWh	$132.4579 - 3.8508 * \ln(\text{MDQ})^*$
> 14,653 MWh - <=57,500 MWh	$330.9276 - 47.4883 * \ln(\text{MDQ})$
> 57,500 MWh	40.8092

### Commodity Charges

Category by Annual Quantity	Commodity Charge (c/kWh)
<=73 MWh	0.3163
> 73 MWh - <=14,653 MWh	$0.2527 - 0.0246 * \ln(\text{MDQ})$
> 14,653 MWh - <=57,500 MWh	$0.2944 - 0.0388 * \ln(\text{MDQ})$
> 57,500 MWh	0.0576

The capacity and commodity unit charges are determined by inserting the Maximum Daily Quantity into the relevant formulae (MDQ measured in MWh). The result of the formulae are in terms of c/peak day kWh and c/kWh respectively.

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\*  $\ln(\text{MDQ})$  is the natural logarithm of the Max Daily Quantity (measured in MWh)

## Worked Examples:

### Example 1

Customer Annual Quantity	-	50 MWh
Customer Maximum Daily Quantity	-	0.37 MWh

Commodity Charge applicable: 0.3163 c/kWh

Annual Commodity Revenue: 50,000 (kWh) x 0.3163 / 100 = €158.15

Capacity Charge applicable: 149.6290 c/pk day kWh

Annual Capacity Revenue: 370 (kWh) x 149.6290 / 100 = €553.6273

Total Annual Revenue = €711.78

### Example 2

Customer Annual Quantity	-	10,000 MWh
Customer Maximum Daily Quantity	-	54.79 MWh

Commodity Charge applicable:  $0.2527 - 0.0246 \times \ln(54.79) = 0.1542$  c/kWh

Annual Commodity Revenue: 10,000,000 (kWh) x 0.1542 / 100 = €15,421.37

Capacity Charge applicable:  $132.4579 - 3.8508 \times \ln(54.79) = 117.04$  c/pk day kWh

Annual Capacity Revenue: 54,790 (kWh) x 117.04 / 100 = €64,126.86

Total Annual Revenue = €79,548.24

### Example 3

Customer Annual Quantity	-	40,000 MWh
Customer Maximum Daily Quantity	-	182.65 MWh

Commodity Charge applicable:  $0.2944 - 0.0388 \times \ln(182.65) = 0.0924$  c/kWh

Annual Commodity Revenue:  $40,000,000$  (kWh)  $\times 0.0924 / 100 = \text{€}36,938.49$

Capacity Charge applicable:  $330.9276 - 47.4883 \times \ln(182.65) = 83.6289$  c/pk day kWh

Annual Capacity Revenue:  $182,650$  (kWh)  $\times 83.6289 / 100 = \text{€}152,748.19$

Total Annual Revenue =  $\text{€}189,686.68$

#### **Example 4**

Customer Annual Quantity - 80,000 MWh

Customer Maximum Daily Quantity - 313.11 MWh

Commodity Charge applicable:  $0.0576$  c/kWh

Annual Commodity Revenue:  $80,000,000$  (kWh)  $\times 0.0576 / 100 = \text{€}46,080.00$

Capacity Charge applicable:  $40.8092$  c/pk day kWh

Annual Capacity Revenue:  $313,110$  (kWh)  $\times 40.8092 / 100 = \text{€}127,777.69$

Total Annual Revenue =  $\text{€}173,857.69$