



Victoria Government Gazette

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SPECIAL

Gas Industry Act 1994

NOTICE OF TERMS AND CONDITIONS UNDER SECTION 48M

Notice of terms and conditions for the sale of gas to customers, other than non-franchise customers, by Kinetik (Gas) Pty Ltd (ACN 079 089 188), Ikon (Gas) Pty Ltd (ACN 079 089 553) and Energy 21 (Gas) Pty Ltd (ACN 079 089 213), each separately, whether acting as principal, agent or as a combination of principal and agent.

These terms and conditions set out the procedure for determining the quantity of gas supplied to customers, other than non-franchise customers.

1. Definitions

For the purposes of this notice the following definitions apply unless the context requires otherwise:

<i>gas</i>	The same meaning as in the <i>GIA</i> .
<i>GIA</i>	The Gas Industry Act 1994.
<i>heating value</i>	The energy, measured in <i>MJ</i> per <i>standard cubic metre</i> evolved in the combustion at a constant pressure of 101.325 <i>kPa</i> absolute of dry fuel <i>gas</i> in gaseous oxygen to form gaseous carbon dioxide and liquid water, the reactants and products all being at 15 degrees Celsius temperature and 101.325 <i>kPa</i> absolute pressure.
<i>J</i>	Joule. A unit of energy as defined in AS1000-1979 "The International System of Units (SI) and its Application".
<i>kPa</i>	Kilopascal. One thousand pascals as defined in Australian Standard AS1000-1979 "The International System of Units (SI) and its Application".
<i>meter</i>	A device which measures and records data relating to the

volumes and/or quantities of gas, and associated equipment.

MJ Megajoule. One million Joules (1,000,000 J).

MJ

non-franchise customer The same meaning as in the *GIA*.

non-franchise customer

standard cubic metre The quantity of dry gas at 15 degrees Celsius temperature and 101.325*kPa* absolute pressure enclosed in a volume of 1 cubic metre.

standard cubic metre

tariff customer A customer of a tariff retailer who is not a non-franchise customer.

tariff customer

tariff retailer (a) Kinetik (Gas) Pty Ltd (ACN 079 089 188);

tariff retailer

(b) Ikon (Gas) Pty Ltd (ACN 079 089 553); and

(c) Energy 21 (Gas) Pty Ltd (ACN 079 089 213), and includes those entities acting as principal, agent or as a combination of principal and agent.

2. Quantity Calculation Formula

The quantity of gas (in *MJ*) supplied to a tariff customer's supply address in a billing period is calculated according to the following formula:

$$M = V * HV * C$$

where:

M is the quantity of gas (in *MJ*) supplied to the tariff customer's supply address in the billing period;

V is the metered volume of gas (in cubic metres) measured by the meter at the tariff customer's supply address in the billing period;

HV is the average heating value of gas (in *MJ* per standard cubic metre) calculated by adding the daily average heating values in the billing period and dividing by the number of days in the billing period; and



C is the correction factor applied to convert the metered volume of gas into the same pressure and temperature as the base pressure and the base temperature used for heating value and is:

$$C = (P(\text{measured}) * T(\text{base}) * S) / (P(\text{base}) * T(\text{measured}))$$

where:

P(measured) is the measured pressure (in kPa absolute);

P(base) is the base pressure (in kPa absolute), being 101.325kPa;

T(measured) is the measured temperature (in degrees Kelvin);

T(base) is the base temperature (in degrees Kelvin), being 288.5 Kelvin; and

S is the supercompressibility ratio calculated by reference to the "Orifice metering of natural gas" Gas Measurement Committee Report No.3, American Gas Association; "Measurement of gas by turbine meters", American Gas Association Report No. 7; "Compressibility factors of natural gas and other related hydro-carbon gas", American Gas Association Report No. 8; and ISO6976, "Calculation of calorific value, density, relative density and wobble index from gas composition".

Based on these reports, and for the particular case of T(base) equal to T(measured), the following table sets out the correction factors for a range of P(measured):

P(measured) (in kPa gauge)	correction factor
1.1	1.0109
1.5	1.0148
2.5	1.0247
4	1.0396
5	1.0495
7	1.0692
7.5	1.0742
0	1.0989
12	1.1188
15	1.1484
18	1.1781
20	1.1979
30	1.2970
40	1.3960
60	1.5942
70	1.6934
100	1.9913
140	2.3891
170	2.6879
200	2.9872
210	3.0870
300	3.9873
350	4.4890
400	4.9922
450	5.4961

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