

# BILL COMPONENTS

## January 1, 2010, Tariffs - Southern Zone

For a Monthly Volume of 47,000 m<sup>3</sup>

### NATURAL GAS SUPPLIED

Natural gas supplied to the appliances at the service address

47,000 m<sup>3</sup> X 20.764 ¢/m<sup>3</sup> = 9,759 \$

### COMPRESSOR FUEL

Natural gas used to transport natural gas over the transportation network

47,000 m<sup>3</sup> X 0.685 ¢/m<sup>3</sup> = 322 \$

### TRANSPORTATION

Transportation of natural gas up to Gaz Métro's territory

47,000 m<sup>3</sup> X 6.191 ¢/m<sup>3</sup> = 2,910 \$

### LOAD-BALANCING

Management of variations between winter and summer loads

#### D<sub>1</sub> General Distribution Service Customers

47,000 m<sup>3</sup> X 3.780 ¢/m<sup>3</sup> = 1,777 \$

#### D<sub>M</sub> Modular Distribution Service Customers

Two information sheets describe load-balancing for these customers.

### INVENTORY-RELATED ADJUSTMENTS

Price fluctuations and costs incurred to maintain inventories

#### D<sub>1</sub> General Distribution Service Customers

An average price, varying monthly, is applicable for D<sub>1</sub> customers as a whole.

47,000 m<sup>3</sup> X 0.571 ¢/m<sup>3</sup> = 268 \$

#### D<sub>M</sub> Modular Distribution Service Customers

An information sheet describes calculations of inventory-related adjustments for these customers.

### DISTRIBUTION

Transportation of natural gas through Gaz Métro's network up to the service address

An information sheet describes calculations at D<sub>1</sub> and D<sub>M</sub> distributions services.

For illustration purposes, the result of the D<sub>1</sub> service example is stated below:

47,000 m<sup>3</sup> X 11.764 ¢/m<sup>3</sup> = 5,529 \$

### TOTAL

#### D<sub>1</sub> General Distribution Service Customers

47,000 m<sup>3</sup> X 43.755 ¢/m<sup>3</sup> = 20,565 \$

# LOAD-BALANCING SERVICE

January 1, 2010, Tariffs

## Tariff D<sub>M</sub> (Modular service) without Daily Readings Customers with Natural Gas Supply Service from Gaz Métro

### CONSUMPTION HISTORY

PERIOD	WITHDRAWN VOLUMES		WINTER VOLUMES		
	Number of Days	Monthly Volumes (m <sup>3</sup> )	Number of Days	Monthly Volumes (m <sup>3</sup> )	Average Daily Volumes (m <sup>3</sup> /day)
OC 2009	31	24,000			
NO 2009	30	37,000	30	37,000	1,233
DE 2009	31	47,000	31	47,000	1,516
JA 2010	31	49,000	31	49,000	1,581
FE 2010	28	43,000	28	43,000	1,536
MR 2010	31	38,000	31	38,000	1,226
AL 2010	30	30,000			
MA 2010	31	20,000			
JN 2010	30	20,000			
JL 2010	31	20,000			
AU 2010	31	20,000			
SE 2010	30	22,000			
<b>ANNUAL TOTAL</b>	<b>365</b>	<b>370,000</b>			
<b>WINTER TOTAL</b>			<b>151</b>	<b>214,000</b>	
<b>MAXIMUM AVERAGE DAILY VOLUME (ADV max)</b>					<b>1,581</b>

### CALCULATION OF PARAMETERS

$$\begin{aligned}
 \text{A Annual Average Daily Load} &= \frac{370,000 \text{ m}^3}{365 \text{ days}} = 1,014 \text{ m}^3/\text{day} \\
 \text{W Winter Average Daily Load} &= \frac{214,000 \text{ m}^3}{151 \text{ days}} = 1,417 \text{ m}^3/\text{day} \\
 \text{P Daily Peak Load} &= \text{ADV max} \times \text{Multiplier} \\
 \text{Multiplier} &= \frac{2.1 - (1.1 \times A / \text{ADV max})}{2.1 - (1.1 \times 1,014 / 1,581)} = 1.394 \\
 \text{Daily Peak Load} &= 1,581 \times 1.394 = 2,204
 \end{aligned}$$

### CALCULATION OF LOAD-BALANCING PRICE FROM DECEMBER 1, 2010 TO SEPTEMBER 30, 2010

$$\begin{aligned}
 &\frac{198.8 \text{ ¢/m}^3 \times (\text{P} - \text{W}) + 1,249.4 \text{ ¢/m}^3 \times (\text{W} - \text{A})}{\text{A} \times \text{\# days of 12 months}} \\
 &\frac{198.8 \text{ ¢/m}^3 \times (2,204 - 1,417) + 1,249.4 \text{ ¢/m}^3 \times (1,417 - 1,014)}{1,014 \times 365} = 1.783 \text{ ¢/m}^3
 \end{aligned}$$

# LOAD-BALANCING SERVICE

January 1, 2010, Tariffs

## Tariff D<sub>M</sub> (Modular Service) without Daily Readings

Customers with Natural Gas Supply Service from a Supplier Other than Gaz Métro

### CONSUMPTION HISTORY

PERIOD	WITHDRAWN VOLUMES		DELIVERED VOLUMES		TRANSPosed VOLUMES	
	Number of Days	Monthly Volumes (m <sup>3</sup> )	DCV <sup>(1)</sup> (m <sup>3</sup> )	TUD <sup>(2)</sup> (m <sup>3</sup> )	Monthly Volumes (m <sup>3</sup> )	Average Daily Volumes (m <sup>3</sup> /day)
		①	②	③	① - ② + ③	
OC 2009	31	24,000	30,000	31,425	25,425	
NO 2009	30	37,000	22,000	30,411	45,411	1,514
DE 2009	31	47,000	20,000	31,425	58,425	1,885
JA 2010	31	49,000	20,000	31,425	60,425	1,949
FE 2010	28	43,000	20,000	28,384	51,384	1,835
MR 2010	31	38,000	20,000	31,425	49,425	1,594
AL 2010	30	30,000	24,000	30,411	36,411	
MA 2010	31	20,000	43,000	31,424	8,424	
JN 2010	30	20,000	49,000	30,411	1,411	
JL 2010	31	20,000	47,000	31,424	4,424	
AU 2010	31	20,000	38,000	31,424	13,424	
SE 2010	30	22,000	37,000	30,411	15,411	
<b>ANNUAL TOTAL</b>	<b>365</b>	<b>370,000</b>	<b>370,000</b>	<b>370,000</b>	<b>370,000</b>	
<b>WINTER TOTAL</b>	<b>151</b>				<b>265,070</b>	
<b>MAXIMUM AVERAGE DAILY VOLUME (ADV max)</b>						<b>1,949</b>

(1) Daily Contract Volume

(2) Theoretical Uniform Delivery = Sum of DCVs / Number of days with DCVs X Number of days of the month

### CALCULATION OF PARAMETERS (according to transposed volumes)

<b>A</b> Annual Average Daily Load	=	$\frac{370,000 \text{ m}^3}{365 \text{ days}}$	=	1,014 m <sup>3</sup> /day
<b>W</b> Winter Average Daily Load	=	$\frac{265,070}{151}$	=	1,755
<b>P</b> Daily Peak Load	=	ADV max x Multiplier		
Multiplier	=	$\frac{2.1 - (1.1 \times A / \text{ADV max})}{2.1 - (1.1 \times 1,014 / 1,949)}$	=	1.528
Daily Peak Load	=	1,949 x 1.528	=	2,978

### CALCULATION OF LOAD-BALANCING PRICE FROM DECEMBER 1, 2010 TO SEPTEMBER 30, 2010

$$\frac{198.8 \text{ ¢/m}^3 \times (P - W) + 1,249.4 \text{ ¢/m}^3 \times (W - A)}{A \times \# \text{ days of 12 months}}$$

$$\frac{198.8 \text{ ¢/m}^3 \times (2,978 - 1,755) + 1,249.4 \text{ ¢/m}^3 \times (1,755 - 1,014)}{1,014 \times 365} = 3.158 \text{ ¢/m}^3$$

# INVENTORY-RELATED ADJUSTMENTS

January 1, 2010, Tariffs

## Tariff D<sub>M</sub> (Modular service)

Natural Gas Supply, Compressor Fuel and Transportation Services

### CALCULATION HYPOTHESIS

#### CUSTOMER'S DATA

##### WINTER VOLUME

214,000 m<sup>3</sup>

151 days

##### ANNUAL VOLUME

370,000 m<sup>3</sup>

365 days

#### GAZ MÉTRO'S DATA

##### SUPPLIED GAS

##### TOTAL INVENTORY AMOUNT

13,942,000 \$

##### TOTAL INVENTORY VOLUME

640,645,851 m<sup>3</sup>

##### COMPRESSOR FUEL

##### TOTAL INVENTORY AMOUNT

(8,272,000) \$

##### TOTAL INVENTORY VOLUME

872,774,744 m<sup>3</sup>

##### TRANSPORTATION

##### TOTAL INVENTORY AMOUNT

3,480,000 \$

##### TOTAL INVENTORY VOLUME

553,393,818 m<sup>3</sup>

### CALCULATION OF CUSTOMER'S INVENTORY VOLUME

$$\left[ \frac{\text{Customer's winter volume}}{\text{Number of winter days}} - \frac{\text{Customer's annual volume}}{\text{Number of days in the year}} \right] \times \text{Number of winter days}$$

$$\left[ \frac{214,000 \text{ m}^3}{151 \text{ days}} - \frac{370,000 \text{ m}^3}{365 \text{ days}} \right] \times 151 \text{ days} = 60,932 \text{ m}^3$$

### CALCULATION OF INVENTORY-RELATED ADJUSTMENTS RATES

$$\frac{\text{Customer's inventory volume}}{\text{Customer's annual volume}} \times \frac{\text{Gaz M\u00e9tro's total inventory amount}}{\text{Gaz M\u00e9tro's total inventory volume}}$$

#### SUPPLIED GAS INVENTORY

$$\frac{60,932 \text{ m}^3}{370,000 \text{ m}^3} \times \frac{13,942,000 \$}{640,645,851 \text{ m}^3} = 0.358 \text{ \$/m}^3$$

#### COMPRESSOR FUEL INVENTORY

$$\frac{60,932 \text{ m}^3}{370,000 \text{ m}^3} \times \frac{(8,272,000) \$}{872,774,744 \text{ m}^3} = (0.156) \text{ \$/m}^3$$

#### TRANSPORTATION INVENTORY

$$\frac{60,932 \text{ m}^3}{370,000 \text{ m}^3} \times \frac{3,480,000 \$}{553,393,818 \text{ m}^3} = 0.104 \text{ \$/m}^3$$

#### TOTAL OF THE INVENTORY-RELATED ADJUSTMENT RATES

0.306 \\$/m<sup>3</sup>

# DISTRIBUTION SERVICE

January 1, 2010, Tariffs

## Tariffs D<sub>1</sub> (General service) and D<sub>M</sub> (Modular service)

### CALCULATION HYPOTHESIS

#### CUSTOMER

Commercial

#### NUMBER OF METERS

1

#### DECEMBER VOLUME

47,000 m<sup>3</sup>

#### NUMBER OF DAYS IN DECEMBER

31 days

### GENERAL SERVICE - D<sub>1</sub> CALCULATION

#### BASIC FEE

		days		¢/day/meter	\$
1	meter	x	31	x	90.714
					<b>28.12</b>

#### PRICE BY VOLUME WITHDRAWN

m <sup>3</sup> /day		days	=	m <sup>3</sup>	x	¢/m <sup>3</sup>	=	\$	
30	first	x	31	=	930	x	27.208	=	253.03
70	next	x	31	=	2,170	x	16.708	=	362.56
200	next	x	31	=	6,200	x	15.449	=	957.84
700	next	x	31	=	21,700	x	11.614	=	2,520.24
2,000	next	x	31	=	16,000	x	8.795	=	1,407.20
7,000	next	x	31	=	0	x	5.890	=	0.00
20,000	next	x	31	=	0	x	4.699	=	0.00
70,000	next	x	31	=	0	x	4.022	=	0.00
1,000,000	and over	x	31	=	0	x	3.250	=	0.00

#### Subtotal Price of Withdrawals

**5,500.87**

#### TOTAL D<sub>1</sub> DISTRIBUTION PRICE

		m <sup>3</sup>		¢/m <sup>3</sup>	\$
47,000	x	11.764	=	<b>5,528.99</b>	

### CONTRACTUAL PARAMETERS - D<sub>M</sub> SERVICE

#### MINIMUM ANNUAL OBLIGATION

90 %

#### CONTRACTUAL TERM

60 months

### CALCULATION OF REDUCTIONS

#### MINIMUM ANNUAL OBLIGATION (MAO)

$$15.5\% \times \frac{90\% - 60\%}{30\%} = 15.5\%$$

#### CONTRACTUAL TERM

$$15.5\% \times \frac{60 \text{ months} - 12 \text{ months}}{48 \text{ months}} = 15.5\%$$

#### TOTAL REDUCTION

31.0%

### MODULAR SERVICE - D<sub>M</sub> CALCULATION

		m <sup>3</sup>		¢/m <sup>3</sup>	\$
TARIFF D <sub>1</sub> DISTRIBUTION PRICE	47,000	x	11.764	=	<b>5,528.99</b>

#### REDUCTIONS

MAO	15.5%	47,000	x	1.823	=	<b>856.99</b> CR
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TERM	15.5%	47,000	x	1.823	=	<b>856.99</b> CR
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#### TOTAL D<sub>M</sub> DISTRIBUTION PRICE

		m <sup>3</sup>		¢/m <sup>3</sup>	\$
47,000	x	8.117	=	<b>3,815.01</b>	