Bill components

December 1, 2018 Prices – Southern Zone

Rate D_5 (Interruptible Service) – Monthly volume of 795,000 m³

Natural Gas Supply and Transportation Services from Énergir

NATURAL GAS SUPPLY	Natural gas supplied to the appliances at the service address						
	795 000	**m³**	**X**	**15,762**	**¢/m³**	**=**	**$125 308**
TRANSPORTATION	Transportation of natural gas up to Énergir's territory						
	795 000	**m³**	**X**	**2,907**	**¢/m³**	**=**	**$23 111**
LOAD-BALANCING	Management of variations between winter and summer loads						
	795 000	**m³**	**X**	**3,266**	**¢/m³**	**=**	**$25 965**
INVENTORY-RELATED ADJUSTMENTS	Price fluctuations and costs incurred to maintain inventories						
	795 000	**m³**	**X**	**(0,130)**	**¢/m³**	**=**	**-$1 034**
DISTRIBUTION	Transportation of natural gas through Énergir's network up the the service address						
	795 000	**m³**	**X**	**3,056**	**¢/m³**	**=**	**$24 297**
CAP-AND-TRADE EMISSION ALLOWANCE SYSTEM	Emission allowance cost for natural gas combustion						
	795 000	**m³**	**X**	**4,015**	**¢/m³**	**=**	**$31 919**
TOTAL							
	795 000	**m³**	**X**	**28,876**	**¢/m³**	**=**	**$229 566**

NOTE :

A customer who supplies his natural gas without transfer of ownership will not be billed the supply of natural gas.

énergir

Rate D_5 Category 1B – Sub-rate 5.6, with Daily Readings

Customers with Natural Gas Supply Service from a Supplier Other than Énergir

CONSUMPTION HISTORY (1)

PERIOD	WITHDRAWN VOLUMES		INTERRUPTIONS	DELIVERED VOLUMES		TRANSPOSED VOLUMES
	Number of Days	Monthly Volumes (m³) ①	Actual Number of Interruption Days	DCV (2) (m³) ②	TUD (3) (m³) ③	Monthly Volumes (m³) ① - ② + ③
OCT 2017	31	360 000		435 000	424 658	349 658
NOV 2017	30	530 000	0	400 000	410 959	540 959
DEC 2017	31	465 000	0	425 000	424 658	464 658
JAN 2018	31	795 000	15	400 000	424 658	819 658
FEB 2018	28	785 000	0	410 000	383 562	758 562
MAR 2018	31	665 000	0	440 000	424 658	649 658
APR 2018	30	410 000		415 000	410 959	405 959
MAY 2018	31	225 000		435 000	424 658	214 658
JUN 2018	30	180 000		425 000	410 960	165 960
JUL 2018	31	185 000		400 000	424 658	209 658
AUG 2018	31	185 000		415 000	424 658	194 658
SEP 2018	30	215 000		400 000	410 960	225 960
ANNUAL TOTAL	**365**	**5 000 000**		**5 000 000**	**5 000 006**	**5 000 006**
WINTER TOTAL	**151**		**15**		ROUNDED VALUE	**3 233 495**
MAXIMUM DAILY VOLUME OF WINTER (m³/day)						**35 000**

(1) For each month, calculations are the result of the sum of daily data.
(2) **D**aily **C**ontract **V**olume
(3) **T**heoretical **U**niform **D**elivery = Sum of DCVs **/** Number of days with DCVs **X** Number of days of the month

CALCULATION OF PARAMETERS (according to transposed volumes)

						m³		days		m³/day
A	**Annual** Average Daily Load				=	5 000 006	/	365	=	13 699
A modified	=	**A**	x	(365 - maximum no. of interruption days) / (365 - actual no. of interruption days)	=	13 699	x	(365 - 20) / (365 - 15)	=	13 503
W	**Winter** Average Daily Load				=	3 233 495	/	151	=	21 414
W modified	=	**W**	x	(151 - maximum no. of interruption days) / (151 - actual no. of interruption days)	=	21 414	x	(151 - 20) / (151 - 15)	=	20 627
P	Daily **Peak** Load (maximum daily volume of winter)									35 000
P modified	=	**P**	x	maximum [(76 - max no. interruption days) / 76 ; 0]	=	35 000	x	max [(76 - 20) / 76 ; 0]	=	25 789

CALCULATION OF THE LOAD-BALANCING PRICE, FROM OCTOBER 1, 2017 TO SEPTEMBER 30, 2018

$$\frac{419{,}0\ ¢/m^3 \times (\text{P modified} - \text{W modified}) + 1\,988{,}6\ ¢/m^3 \times (\text{W modified} - \text{A modified})}{\text{A} \times \text{\# days of 12 months}}$$

$$\frac{419{,}0\ ¢/m^3 \times (25\,789 - 20\,627) + 1\,988{,}6\ ¢/m^3 \times (20\,627 - 13\,503)}{13\,699 \times 365} = 3{,}266\ ¢/m^3$$

Rate D_5 (Interruptible Service)

Natural Gas Supply and Transportation Services from Énergir

CALCULATION HYPOTHESIS

CUSTOMER'S DATA

WINTER VOLUME

3 233 495	m³
151	days

ANNUAL VOLUME

5 000 006	m³
365	days

ÉNERGIR'S DATA

SUPPLIED GAS

TOTAL INVENTORY AMOUNT

(34 031) $

TOTAL INVENTORY VOLUME

3 466 954 m³

TRANSPORTATION

TOTAL INVENTORY AMOUNT

75 166 $

TOTAL INVENTORY VOLUME

17 621 784 m³

CALCULATION OF CUSTOMER'S INVENTORY VOLUME

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

$$\left[\frac{3\,233\,495 \text{ m}^3}{151 \text{ days}} - \frac{5\,000\,006 \text{ m}^3}{365 \text{ days}}\right] \times 151 \text{ days} = 1\,164\,999 \text{ m}^3$$

CALCULATION OF INVENTORY-RELATED ADJUSTMENTS RATES

$$\frac{\text{Customer's inventory volume}}{\text{Customer's annual volume}} \times \frac{\text{Énergir's total inventory amount}}{\text{Énergir's total inventory volume}}$$

SUPPLIED GAS INVENTORY

$$\frac{1\,164\,999 \text{ m}^3}{5\,000\,006 \text{ m}^3} \times \frac{(34\,031) \$}{3\,466\,954 \text{ m}^3} = (0{,}229) \text{ ¢/m}^3$$

TRANSPORTATION INVENTORY

$$\frac{1\,164\,999 \text{ m}^3}{5\,000\,006 \text{ m}^3} \times \frac{75\,166 \$}{17\,621\,784 \text{ m}^3} = 0{,}099 \text{ ¢/m}^3$$

TOTAL OF THE INVENTORY-RELATED ADJUSTMENT RATES (0,130) ¢/m³

NOTE :

A customer who supplies his natural gas without transfer of ownership will not be billed the inventory price of supplied gas.

Rate D_5 (Interruptible Service)

CALCULATION HYPOTHESIS AND CONTRACTUAL PARAMETERS

VOLUME WITHDRAWN IN DECEMBER 2018

Outside Interruption Period
793 658 m³

During Interruption Period
1 342 m³

TOTAL
795 000 m³

SUM OF SUBSCRIBED VOLUME AND PROJECTED VOLUME
25 000 m³/day

MINIMUM ANNUAL OBLIGATION
85 %

CONTRACTUAL TERM
60 month

CALCULATION OF REDUCTIONS

MINIMUM ANNUAL OBLIGATION (MAO)

$$30{,}0\% \times \frac{85\% - 25\%}{60\%} = 30{,}0\%$$

CONTRACTUAL TERM

$$40{,}0\% \times \frac{60 \text{ months} - 12 \text{ months}}{48 \text{ months}} = 40{,}0\%$$

TOTAL REDUCTION **70,0%**

INTERRUPTIBLE SERVICE - RATE D_5 CALCULATION

PRICE BY VOLUME WITHDRAWN

m³/day			m³/day		¢/m³		$/day
3 000	first	=	3 000	x	13,799	=	413,97
7 000	next	=	7 000	x	10,106	=	707,42
20 000	next	=	15 000	x	8,812	=	1 321,80
70 000	next	=	0	x	6,077	=	0,00
200 000	next	=	0	x	5,041	=	0,00
300 000	and over	=	0	x	4,402	=	0,00

Unit Price by Volume Withdrawn	25 000	x	9,773	=	2 443,19

SUBTOTAL DISTRIBUTION PRICE

	m³		¢/m³		$	
	795 000	x	9,773	=	77 695,35	
REDUCTIONS						
MAO 30,0%	795 000	x	2,932	=	23 308,61	CR
TERM 40,0%	795 000	x	3,909	=	31 078,14	CR

UNAUTHORIZED WITHDRAWALS DURING INTERRUPTIONS

Penalty	1 342	x	50,000	=	671,00
Natural Gas Supply	1 342	x	23,683	=	317,83

TOTAL DISTRIBUTION PRICE

m³		¢/m³		$
795 000	x	3,056	=	24 297,43