# Canadian Natural Gas >> Monthly Market Update

# June 2006

» Natural Gas Division Petroleum Resources Branch Energy Policy Sector





Natural Resources Ressources naturelles Canada

# Foreword

The Canadian Natural Gas: Monthly Market Update is a monthly working paper prepared by the Natural Gas Division of Natural Resources Canada.

## Structure and Format of the Report

This five page report provides the most recently available data on natural gas prices and on key fundamentals affecting prices.

To the right is an Executive Summary, which provides a brief, up-to-date overview of natural gas market fundamentals. For those interested in reading ahead, the remainder of the report consists of graphs, with limited text and comments associated with each. The text provides a short description of the natural gas market fundamental, followed by a simple comparative analysis (i.e., year-over-year or month-over-month) of the data contained within the figure.

Beginning in January 2005, this report has been formatted in landscape orientation to be more easily read on a computer screen.

### Sources

Various sources are used in developing this report, including Statistics Canada, Canadian Enerdata, Daily Oil Bulletin, the National Energy Board and GLJ Energy Publications.

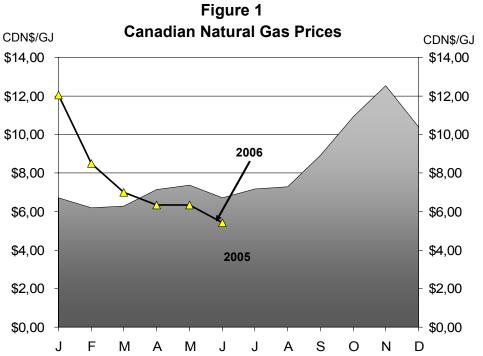
If you have any comments, suggestions or questions please contact Paul Cheliak at 995-0422, or by email at <u>pcheliak@nrcan.gc.ca</u>

# **Executive Summary**

The chart below depicts year-over-year percentage changes (given the most recently available month of data) in natural gas prices, heating degree days (weather), natural gas domestic sales and exports, storage, drilling, and natural gas production.

Natural Gas Market Fundamental	Percentage Change	
	+	-
Prices		19%
Heating Degree Days		
(HDD's)		7%
Sales		1%
Exports		
Storage	18%	
Drilling		2%
Production	2%	

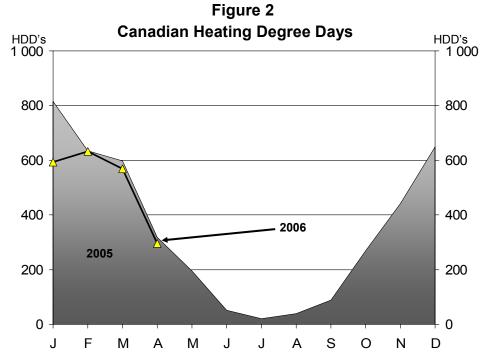
PRICES: CDN \$5.42/GJ in June 2006; a decrease of 19%
HDD's: 295 in April 2006; a decrease of 7%
SALES: 286 Bcf in April 2006; a decrease of 1%
EXPORTS: 280 Bcf in April 2006; no change
STORAGE: 286 Bcf in June 2006; an increase of 18%
DRILLING: 885 in June 2006; a decrease of 2%
PRODUCTION: 500 Bcf in April 2006; an increase of 2%



Source: GLJ Energy Publications Note: Canadian price is the Alberta price at the AECO hub.

Figure 1 illustrates the price of natural gas at the major Canadian pricing point – the intra-Alberta market. The price is for gas delivered under a 30-day contract. The intra-Alberta market is formed by gas delivered to pipelines in Alberta. Gas changes hands via Nova Inventory Transfers (NIT), exchanges at the AECO storage hub, or sales facilitated by the Natural Gas Exchange (NGX). This is a commodity price – a wholesale price in the producing area. Consumer (or "burner tip") prices will also include pipeline transmission and distribution costs, which vary across Canada. Natural gas is commonly measured in gigajoules (GJ) or cubic metres. A gigajoule is an energy unit, which equates to about 27 cubic metres of natural gas.

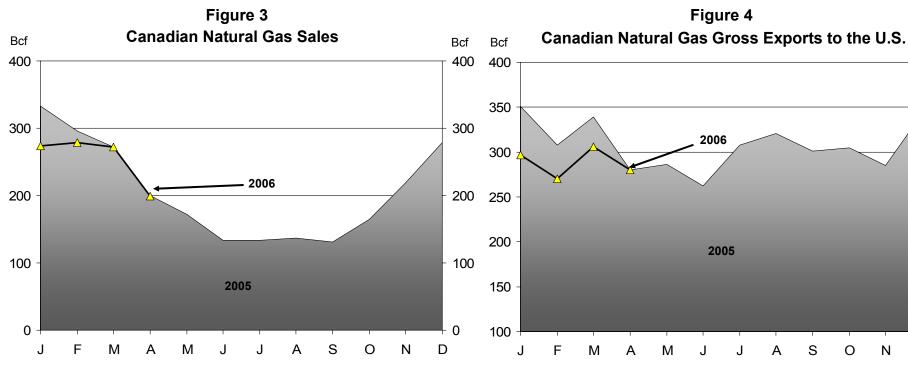
Canadian natural gas commodity prices were CDN \$5.42/GJ in June 2006, 15% lower than the previous month and 19% lower than June 2005.



Source: Statistics Canada

Figure 2 shows Canadian Heating Degree Days (HDD's), which are a measure of how cold it is. The more HDD's in any season, the greater is natural gas demand for space heating. If the winter is unusually cold, demand will respond accordingly and natural gas prices will tend to be stronger. However, if the winter is mild, demand will be weaker, which will tend to moderate prices.

In April 2006, there were 295 HDD's, 7% less than April 2005. Temperatures in April 2006 were 15% warmer than normal.



Source: Statistics Canada Note: Most recent month is a preliminary figure.

Figure 3 illustrates total Canadian natural gas sales. Sales include all natural gas sold to residential and commercial users (for space and water heating, cooking, etc), industries and electricity generating units in Canada. The totals do not include consumption by the natural gas industry itself (e.g., pipeline compressor fuel).

Natural gas sales to Canadian consumers in April 2006 were 199 Bcf, 1% lower than April 2005.

Source: National Energy Board

Figure 4 illustrates natural gas exports to the U.S.. Canadian natural gas requirements are met entirely by domestic sources, as Canada produces natural gas in excess of what is required for domestic consumption. In comparison, the U.S. consumes more natural gas than it produces, therefore natural gas imports are required to make up the difference. Typically, Canada exports between 50 and 60 per cent of its gas production.

In April 2006, natural gas exports to the U.S. were 280 Bcf, the same as April 2005.

Bcf

400

350

300

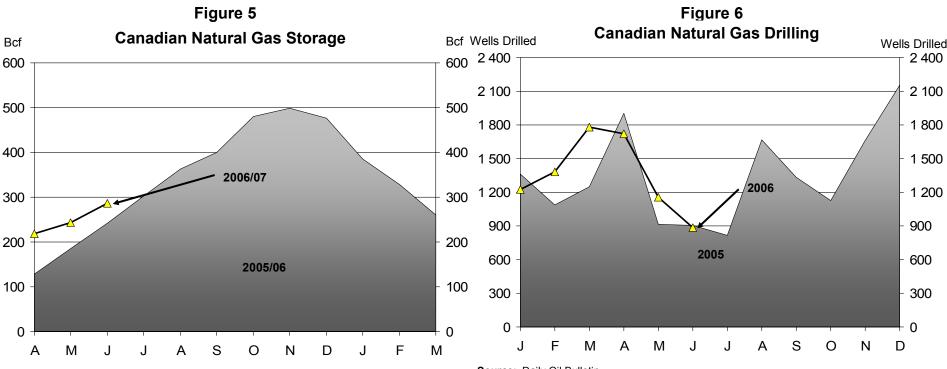
250

200

150

100

D



Source: Canadian Enerdata

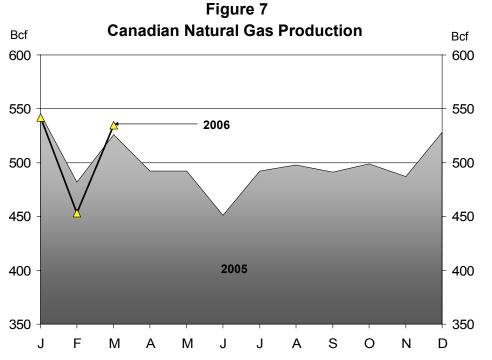
Figure 5 indicates natural gas storage levels in Canada. The amount of gas in storage generally follows a seasonal pattern. In the summer, when natural gas demand is low, gas is injected into storage. Storage volumes peak in the fall. In winter, volumes are drawn down, reaching a low point in the spring.

Canadian natural gas storage inventories increased by 43 Bcf during the month of May 2006. Storage levels at the beginning of June 2006 were 286 Bcf, 18% higher than those of June 2005.

Source: Daily Oil Bulletin

Figure 6 depicts the number of natural gas well completions in Canada. There is a time-lag between drilling a gas well and starting production, due to the work necessary to connect the new well to the pipeline grid. Drilling is therefore a good indicator of future natural gas supply.

There were 885 natural gas wells drilled in June 2006, a decrease of 2% compared to June 2005.



Source: Statistics Canada Note: Most recent month is a preliminary figure.

Figure 7 shows marketable natural gas production in Canada. Marketable natural gas is the gas available for consumption after processing and excludes producer or plant uses.

Marketable natural gas production was 500 Bcf in April 2006, 2% higher than in April 2005.

# **Bibliography and Data Sources**

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- 2. Natural Gas Transportation and Distribution, 55-002, Statistics Canada
- 3. Supply and Disposition of Crude Oil and Natural Gas, 26-006, Statistics Canada
- 4. Drilling Highlights, Daily Oil Bulletin website: www.dailyoilbulletin.com
- 5. Canadian Natural Gas Focus, GLJ Energy Publications Inc.
- 6. Natural Gas Storage Survey, Canadian Enerdata Ltd.
- 7. Natural Gas Export Statistics, National Energy Board website: <u>www.neb-one.gc.ca</u>