

Canadian Natural Gas

>> Monthly Market Update

May 2005

Natural Gas Division Petroleum Resources Branch Energy Policy Sector





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 pcheliak@nrcan.gc.ca

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	Percentage Change	
Market Fundamental	+	-
Prices	16%	
Heating Degree Days		
(HDD's)	16%	
Sales	3%	
Exports	12%	
Storage	5%	
Drilling		27%
Production	1%	

PRICES: CDN \$7.37/GJ in May 2005; an increase of 16%

HDD's: 598 in March 2005; an increase of 16%

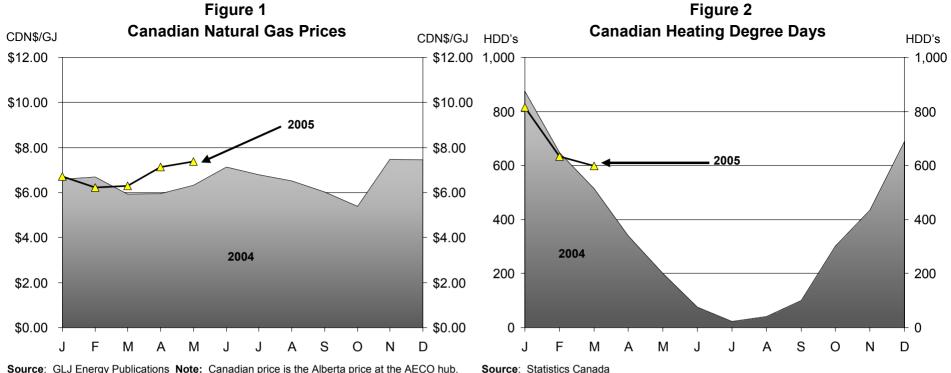
SALES: 270 Bcf in March 2005; an increase of 3%

EXPORTS: 338 Bcf in March 2005; an increase of 12%

STORAGE: 184 Bcf in May 2005; an increase of 5%

DRILLING: 913 in May 2005; a decrease of 27%

PRODUCTION: 512 Bcf in March 2005; an increase of 1%



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 \$7.37/GJ in May 2005, 3% higher than the previous month and 16% higher than May 2004.

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 March 2005, there were 598 HDD's, 16% more than in March 2004. Temperatures in March 2005 were 5% colder than normal.

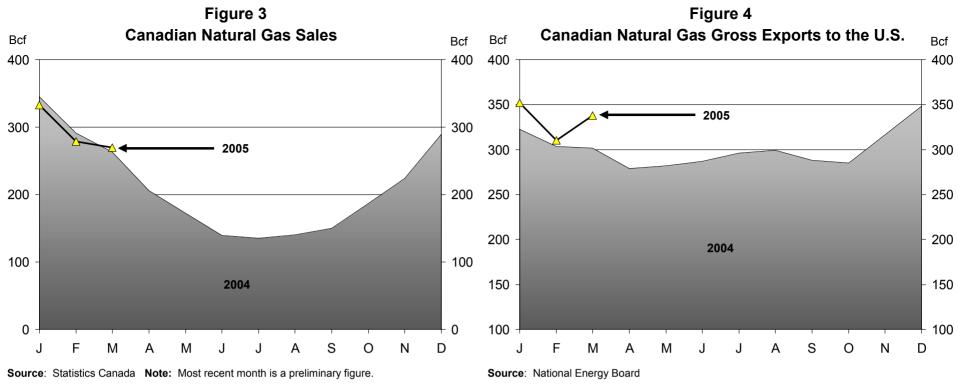


Figure 3 illustrates total Canadian natural gas sales. Sales include all natural gas sold to residential and commercial users (for space and water heating, cooking, etc), industries and electricity generating units in Canada. The totals do not include consumption by the natural gas industry itself (e.g.,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

Natural gas sales to Canadian consumers in March 2005 were 270 Bcf, 3% higher than March 2004.

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 March 2005, natural gas exports to the U.S. were 338 Bcf, 12% higher than March 2004.

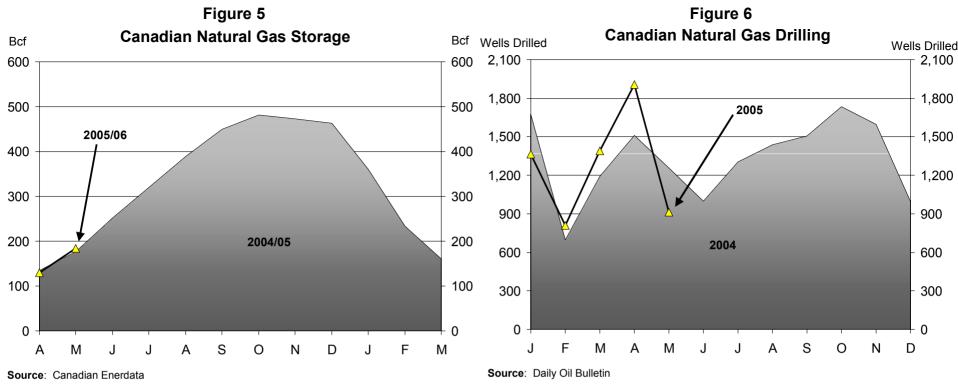
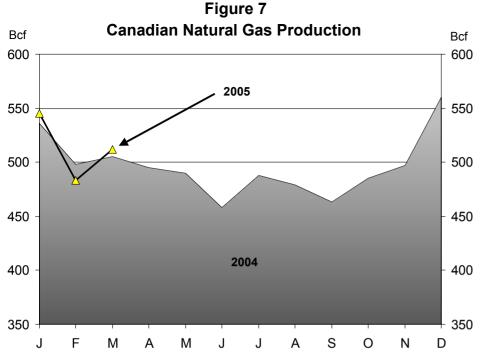


Figure 5 indicates natural gas storage levels in Canada. The amount of gas in storage generally follows a seasonal pattern. In the summer, when natural gas demand is low, gas is injected into storage. Storage volumes peak in the fall. In winter, volumes are drawn down, reaching a low point in the spring.

Canadian natural gas storage inventories increased by 54 Bcf during the month of April 2005. Storage levels at the beginning of May 2005 were 184 Bcf, 5% higher than those of May 2004.

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 913 natural gas wells drilled in May 2005, a decrease of 27% compared to May 2004.



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 512 Bcf in March 2005, 1% higher than in March 2004.

Bibliography and Data Sources

- Crude Oil and Natural Gas (Preliminary), Statistics Canada
- 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: www.neb-one.gc.ca