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#### 1. Sales, Exports, Imports of Natural Gas, December 1965

*Intelligence* Sales of natural gas in December increased 8.5 per cent to 64,134 MMcf. thus bringing the sales for the full year to 101,037 ~~MMcf.~~ <sup>MMcf.</sup> Revenue during December was \$42,526,000, up 5.4 per cent while the total 1965 revenues increased 12.6 per cent to \$369,306,000. Residential Sales increased slightly in December from 23,931 MMcf. to 24,160 MMcf., industrial sales increased sharply from 22,946 MMcf. to 27,232 MMcf. and commercial sales from 12,251 MMcf. to 12,742 MMcf. Exports for December increased 2.2 per cent to 37,514 MMcf. with a value of \$9,439,000.

Full details will be contained in the December issue of "Sales of Manufactured and Natural Gas", Catalogue number 45-005 which will be issued shortly.

#### Sales, Exports, Imports of Natural Gas

	Dec. 1965	Year 1965	Dec. 1964	Year 1964
<u>Sales:</u>				
Residential	24,160	187,311	23,931	163,626
Industrial ..	27,232	284,669	22,946	257,402
Commercial ..	12,742	101,037	12,251	83,475
Exports .....	37,514	404,709	36,714	392,088
Imports .....	3,852	17,746	1,652	9,642

Note: All volumes in MMcf. = 000,000 cubic feet.



2. Preliminary Electric Energy Statistics - January 1966 Preliminary statistics indicate a 10.9 per cent increase in electric energy generation in Canada for January 1966. There were very few changes of significance in either imports, exports or secondary energy used. Total net generation for the twelve-month period ending January 31, 1966 amounted to 144,533,995 thousand Kwh. compared with the 143,160,854 thousand Kwh. for the period ending in December and 135,228,765 thousand Kwh. in the period ending in January 1965. Full details will be contained in the January issue "Electric Power Statistics", Catalogue number 57-001 which will be issued shortly.

### Preliminary Electric Energy Statistics

(thousand Kwh)

	January 1964	January 1965	January 1966
Net generation - Hydro .....	9,655,500	9,870,905	11,234,054
Thermal .....	2,019,381	2,737,564	2,747,556
Total net generation .....	11,674,881	12,608,469	13,981,610
Energy imported from U.S.A. ....	181,965	282,875	245,055
Energy exported to U.S.A.:			
Firm .....	73,708	66,250	50,630
Secondary .....	333,005	238,332	259,397
Total exported to U.S.A. ....	406,713	304,582	310,027
Net energy used in Canada .....	11,450,133	12,586,762	13,916,638
Secondary energy used in Canada .....	250,727	305,220	296,616
Firm energy used in Canada .....	11,199,406	12,281,542	13,620,022

# RESEARCH REPORT

The purpose of this report is to provide a comprehensive overview of the research conducted in the field of [research area]. The study was designed to investigate the relationship between [variables] and to determine the extent to which [hypothesis] is supported. The results of the study indicate that [findings], which are consistent with the theoretical framework proposed in the introduction. The study has several limitations, including [limitations], and further research is needed to address these issues. The findings of this study have important implications for [implications] and will be discussed in detail in the following sections.

## 1. Introduction

1.1 Background

The research in this area has been largely focused on [topic]. However, there is a need for a more systematic approach to [topic]. This report aims to fill this gap by providing a detailed analysis of the current state of the field and identifying areas for future research. The study was conducted over a period of [duration] and involved [methods]. The results of the study are presented in the following sections.

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3. Canadian Crude Oil Requirements 1966 Crude oil requirements by refineries located in Canada have been forecast to reach the one million barrels per day mark in 1966. This is an increase of 3.4% over the 1965 actual receipts of 948,400 barrels per day, and is 4.2% greater than the previous high of 402,000 barrels/day reached in 1962.

Requirements for domestic crude which are marketed in areas of Canada, west of the Ottawa valley are forecast to increase only slightly (1.2%); while requirements for imported crude oil, the products of which are marketed in Newfoundland, the Maritimes, Quebec and the Ottawa valley, are forecast to increase 6.2%.

The prairies' take is forecast to decrease slightly, Ontario to increase slightly and the British Columbia take will increase 10.4%. The effect of a prolonged shut-down of refineries, due to labor disputes in the latter part of 1965, reduced the amount of oil taken in British Columbia, and therefore accounts for the high growth in this province.

During 1965 the increase in crude oil imports was slight (0.2% above 1964) while product imports increased 34.2%; during the same period exports of crude increased 6.5% with product exports increasing 29.1%. Canada's net import of crude and products increased 8.0% in 1965 but is 10.5% less than the 1961 level of 257,000 barrels/day.

At the end of 1965 the total refinery capacity was 1,106,000 barrels of crude oil per calendar day making Canada the sixth largest refining nation in the world.

These figures were obtained from refining companies under the "Canadian Crude Oil Requirements" survey which requests details of crude oil requirements by source of the crude and the location of the refinery. These requirements include crude, condensate and pentanes plus, but exclude L.P.G.'s. Product imports and exports include both refinery and processing plant L.P.G.'s.

The above data was previously released in publication number 6511-103 "Canadian Crude Oil Requirements" which is now discontinued. Future releases of this type of information will be made in this Service Bulletin.

Imports - Exports  
Crude Petroleum and Petroleum Products  
( '000 bbls. per day)

	1965	1964	1963	1962	1961
Imports:					
Crude .....	395	394	402	371	365
Products .....	161	120	90	82	81
	556	514	492	453	446
Exports:					
Crude .....	295	277	247	235	184
Products .....	31	24	15	12	5
	326	301	262	247	189
Net Imports .....	<u>230</u>	<u>213</u>	<u>230</u>	<u>206</u>	<u>257</u>

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# Crude Oil Requirements

('000 bbls. per day)

	Forecast 1966	Increase (Decrease)	Actual Receipts				
			1965	1964	1963	1962	1961
By Source of Production							
Domestic							
Prairies.....	541	1.1%	535	502 <sup>r</sup>	470 <sup>r</sup>	446	425
British Columbia ....	34	7.2	32	33	33	25	2
Northwest Territories	2	3.3	2	2	2	2	1
Ontario .....	4	8.4	3	3	3	3	3
	<u>581</u>	<u>1.5</u>	<u>572</u>	<u>540</u>	<u>508</u>	<u>476</u>	<u>431</u>
	947		905				
			910				
Imports .....	<u>419</u>	<u>6.2</u>	<u>395</u>	<u>394</u>	<u>402</u>	<u>371</u>	<u>365</u>
Requirement .....	<u>1,000</u>	<u>3.4%</u>	<u>967</u>	<u>934</u>	<u>910</u>	<u>847</u>	<u>796</u>
	22		19				
	27		23				
	310		208				
By Location of Refineries							
Atlantic .....	107	3.0%	104	108	98	87	85
Quebec .....	311	7.4	289	285	302	282	274
Ontario .....	305	1.4	302	283	262	234	227
Manitoba .....	37	(5.0)	39	37	34	34	32
Saskatchewan .....	61	4.7	58	55	56	55	48
Alberta .....	87	(5.0)	92	82 <sup>r</sup> )	85 <sup>r</sup>	78	63
Northwest Territories	2	3.3	2	2 )			
British Columbia .....	<u>90</u>	<u>10.4</u>	<u>81</u>	<u>82</u>	<u>73</u>	<u>77</u>	<u>67</u>
Requirement .....	<u>1,000</u>	<u>3.4%</u>	<u>967</u>	<u>934</u>	<u>910</u>	<u>847</u>	<u>796</u>

<sup>r</sup> Revised figures.







# Refinery Capacities and Percentage of Refinery Capacity Used

('000 bbls. per day)

Province	1965	1964	1963	1962	1961
<u>Refinery Capacities</u>					
Atlantic .....	125.5	125.5	103.8	103.8	106.3
Quebec .....	351.5	318.7	305.0	304.5	297.0
Ontario .....	322.4	306.9	305.5	279.2	260.8
Manitoba .....	41.3	41.3	40.4	37.4	37.4
Saskatchewan .....	69.7	70.0	70.0	69.7	70.8
Alberta .....	93.3	86.7	88.8	94.6	90.7
British Columbia .....	100.4	101.5	97.3	97.3	97.3
Northwest Territories	1.9	1.9	1.9	1.5	1.5
Canada .....	1,106.0	1,052.5	1,012.7	988.0	961.8
<u>Percentage of Refinery Capacity Used</u>					
Atlantic .....	82.4	85.8	94.0	84.4	79.6
Quebec .....	82.2	89.5	99.0	92.8	92.2
Ontario .....	93.5	92.3	85.8	83.6	87.1
Manitoba .....	95.5	89.8	84.5	90.5	85.6
Saskatchewan .....	83.9	78.6	80.2	78.2	67.9
Alberta .....	98.0	94.4	94.1	81.9	67.8
British Columbia .....	81.1	81.1	74.5	79.2	69.1
Northwest Territories	95.9	84.4	(1)	(1)	(1)
Canada .....	87.4	88.8	89.8	85.7	82.7

(1) Included in Alberta percentages.



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