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# Fifth ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

# 1958 Actual 1959 - 1962 Forecast



DOMINION BUREAU OF STATISTICS

Public Finance and Transportation Division Transportation and Public Utilities Section



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## Introduction

This report presents the results of the fifth annual Electric Power Survey of Capability and Load which was conducted in March 1959 by the Dominion Bureau of Statistics in cooperation with the Canadian Electrical Association. The Electric Power Survey embraces all producers of electric energy in Canada which generate 10,000,000 kilowatt hours or more per annum. The 1959 report is based on returns from 130 companies, half of which are utilities and the other half industrial establishments which generate power primarily for own use. As these 130 producers account for approximately 99 per cent of total generation in Canada, figures presented in this report may be regarded as being representative of the entire industry.

The statistics presented are for the years 1950, and 1953 - 1962 inclusive, the latter four years on a forecast basis. Capability and load figures are based on the situation as it existed at the time of each company's annual firm power peak load, load being calculated in terms of contractual commitments for firm power.

Generating capability is the maximum output that can be maintained at time of annual firm power peak load. Net generating capability refers to the amount left after power used in station service is deducted. It is calculated on the basis of actual operating experience assuming all equipment in working order and available for use. Net generating capability should not be construed as representing installed capacity a term used in reference to the name plate ratings of generating equipment as designated by the manufacturers.

The power situation in any province or for the country as a whole can be presented in several ways. Two of these are contained in the report and are based on the demand within the province (Table I) and the demand on the province (Table V). In each case the appropriate capability is also shown. Demand within the province is related to net capability which means net generating capability plus purchases less deliveries outside the province.

Presenting the power situation within Canada and within the individual provinces provides a measure of the growth of the industry within geographic areas and is of interest in measuring the contribution of the industry to the economic growth of the country as a whole. Demand on the province, however, is related to gross capability which is generating capability plus purchases outside the province and is of interest primarily from a utility point of view.

Some care must be exercised in the interpretation of these data. For example, the difference between gross capability and total firm demand is an indication of available reserves of power. Since power producers are not, however, all fully interconnected, reserves of power cannot always be completely utilized. <u>Net Generating Capability</u>: Total net generating capability in Canada in 1958 amounted to 18,628,000 kilowatts, an increase of 13.1 per cent over the 1957 total of 16,469,000 kilowatts. Further annual increases totalling 28.8 per cent over the next four years are expected to result in a net generating capability in 1962 of 23,999,000 kilowatts. The proportion of thermal generation to the total is expected to rise from 14.6 per cent in 1958 to 22.9 per cent in 1962.

Firm Power Peak Load: Firm power peak load within Canada in 1958 was 15,485,000 kilowatts, an increase of 3.8 per cent over the 1957 total of 14,925,000. The forecast for 1962 is 20,137,000 kilowatts, an estimated rise of 30.0 per cent.

<u>Indicated Reserve</u>: The indicated reserve for Canada rose to 2,991,000 kilowatts from 1,394,000 in 1957. By 1962, it will have risen to 3,756,000 kilowatts, a reserve equivalent to 18.6 per cent of firm demand as compared with this year's 19.1 per cent.

Firm Energy Requirement: Firm energy requirement rose 1.0 per cent in 1958 to 87,173,000,000 kilowatt hours from 86,333,000,000 in 1957. A rise of 7.6 per cent to 93,841,000,000 kilowatt hours is forecast for 1959 and an increase of 33.7 per cent to 116,545,000,000 for 1962.

<u>Table I - Summary (Pages 13 to 24)</u>: This table presents capability, firm power peak load, indicated reserve and firm energy requirement summarized for Canada and for each of the provinces. Tables II - V compare provincial rates of growth in each of these categories with that for Canada as a whole.

Table II - Net Generating Capability Within Provinces (Page 25): During the fouryear period ended 1958 net generating capability in Canada increased 39.8 per cent to 18,628,000 kilowatts from 13,328,000. A further rise of 28.8 per cent to 23,999,000 kilowatts is forecast for the next four years. Provincial rates of increase based on actual and forecast data for the period 1954-1962 range from a high of 182.3 per cent in Alberta to a low of 42.2 per cent in Newfoundland, the comparable figure for all Canada being 80.1 per cent.

Table III - Firm Power Peak Load Within Provinces (Page 26): Firm power peak load is expected to rise 30.0 per cent during the next four years compared with an actual increase of 36.3 per cent between 1954 and 1958. In the eight-year period 1954-1962 a growth in firm power peak load of 183.2 per cent is indicated in Saskatchewan and 181.2 per cent in Alberta. The forecast increase for all Canada is 77.3 per cent to 20,137,000 kilowatts from 11,359,000.

Table IV - Firm Energy Requirement Within Provinces (Page 27): In contrast to the decline in the rates of growth forecast for net generating capability and firm power peak load for the next four years, firm energy requirement is expected to rise 33.7 per cent between 1958-1962 compared with an actual increase of 29.4 per cent between 1954 and 1958. The eight-year increase of 73.1 per cent forecast for all Canada compares with a rise of 199.9 per cent forecast for Saskatchewan, 159.5 per cent for Alberta and 140.8 per cent for British Columbia.

<u>Table V - Indicated Reserve (Page 28)</u>: This table shows the relationship between the demand for power and the ability to meet it in each of the provinces and in Canada as a whole. Demand on the province consists of firm power peak load within the province plus any indicated shortage or rejected load plus firm power deliveries outside the province. Gross capability consists of net generating capability (hydro and thermal) within the province plus purchases of firm power under firm obligation from sources outside the province. The difference between gross capability and firm demand is the indicated reserve, and this, expressed as a percentage of total firm demand, can be used as a measurement of the industry's ability to satisfy demand and meet contingencies.

For Canada as a whole the reserve is expected to rise from a low of 6.9 per cent in 1956 to a high of 27.8 per cent in 1960 and then decline to 18.6 per cent in 1962. In 1958, it rose to 19.1 per cent from the year earlier figure of 9.2 per cent. Reserves for individual provinces in 1958 varied from a high of 62.5 per cent in Prince Edward Island to a low of 11.4 per cent in Ontario. Since not all systems are fully interconnected it should be remembered that reserves of power cannot always be completely utilized.

Charts: On pages 6 to 12, five charts are presented to show results of the survey of the electric power industry in Canada in graphic form.

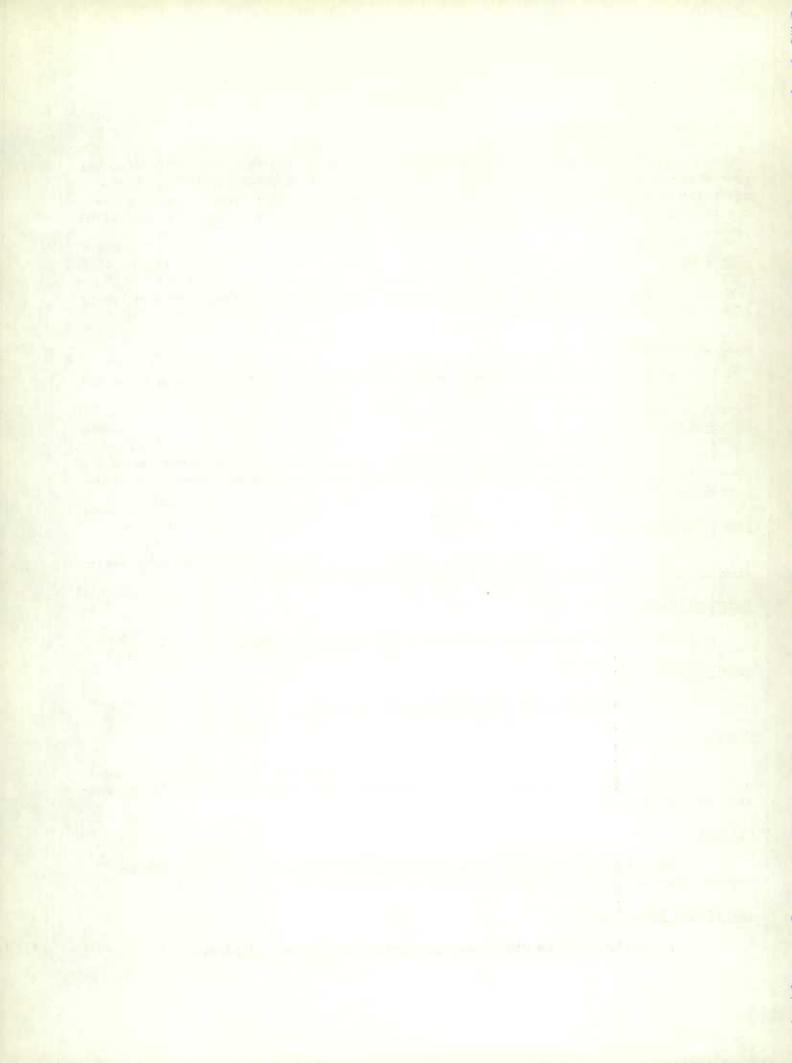
<u>Chart A - Net Generating Capability Within Canada (Page 6)</u>: This chart portrays the rapid growth in ability to produce power and shows the extent to which thermal generation is becoming increasingly important. Total thermal generation is expected to increase from 1,609,000 kilowatts or 12.1 per cent of the net generating capability within Canada in 1954 to 5,494,000 kilowatts or 22.9 per cent in 1962.

<u>Chart B - Net Capability and Firm Demand Within Canada (Page 7)</u>: Chart B provides an indication of the reserves available to meet firm demand for electric power within Canada.

<u>Chart C - Net Generating Capability Within Provinces (Pages 8 - 9)</u>: Chart C illustrates the growth in capability and the comparative importance of hydro and thermal generation within provinces.

<u>Chart D - Net Capability and Firm Demand Within Provinces (Pages 10 - 11)</u>: This chart provides a graphic indication of the year to year ability of each of the provinces to meet its firm demand for electric power.

Chart E - Firm Energy Requirement Within Canada (Page 12): Chart E shows the growth in Canadian firm energy requirement during the period 1950 - 1962.



#### DEFINITIONS

#### NET GENERATING CAPABILITY

The maximum net kilowatt output (after station service) available from the generating facilities of the UTILITY, SYSTEM or INDUSTRIAL ESTABLISHMENT with all equipment available, at the time of the annual FIRM POWER PEAK LOAD, determined as the average kilowatt output for one hour with no allowance for outages of generating units.

### FIRM POWER

Maximum power always to be available, short of major outages caused by storm, explosion, strikes, etc.

#### FIRM OBLICATIONS

Shall include only maximum commitments under contract agreements to accept or deliver power on an irrevocable basis.

#### NET CAPABILITY

The sum of net generating capability and purchases of firm power under firm obligation from other utilities less deliveries of firm power under firm obligation to other utilities.

## FIRM POWER PEAK LOAD

The annual FIRM POWER maximum average net kilowatt load of one hour duration within the UTILITY, SYSTEM or INDUSTRIAL ESTABLISHMENT.

#### INDICATED DEMAND

The sum of firm power peak load and indicated shortage

#### INDICATED RESERVE

Net capability less indicated demand (+ or -).

## SYSTEM

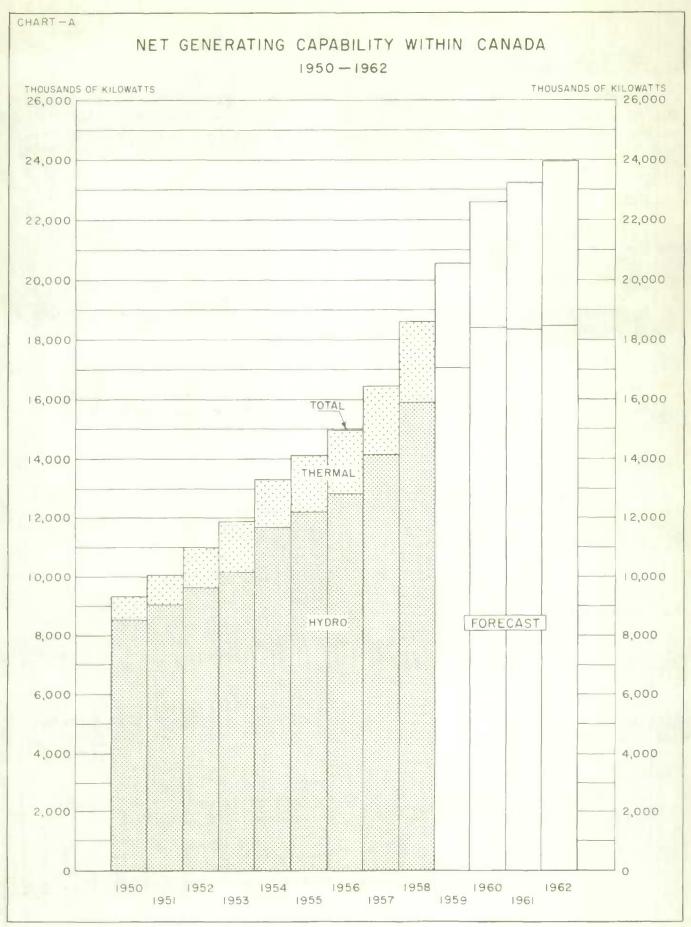
Two or more UTILITIES, having interconnections for the exchange of power, which although they may be separately incorporated, are controlled, managed or operated by one principal UTILITY.

#### UTILITY

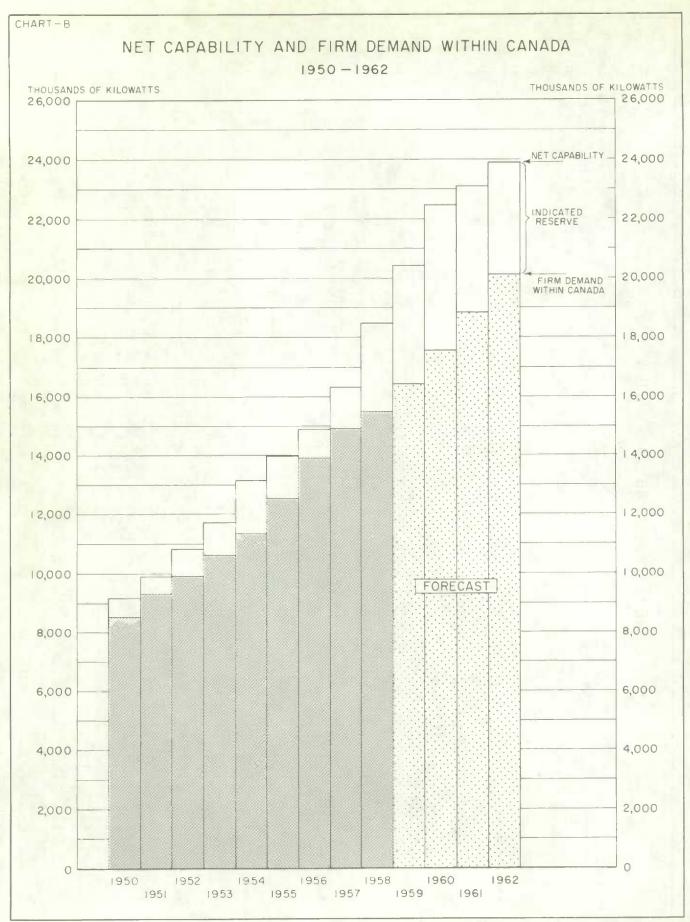
The Company, Commission, or UTILITY reporting or included in a SYSTEM report under Section IV (which generates at least part of its own power).

#### INDUSTRIAL ESTABLISHMENT

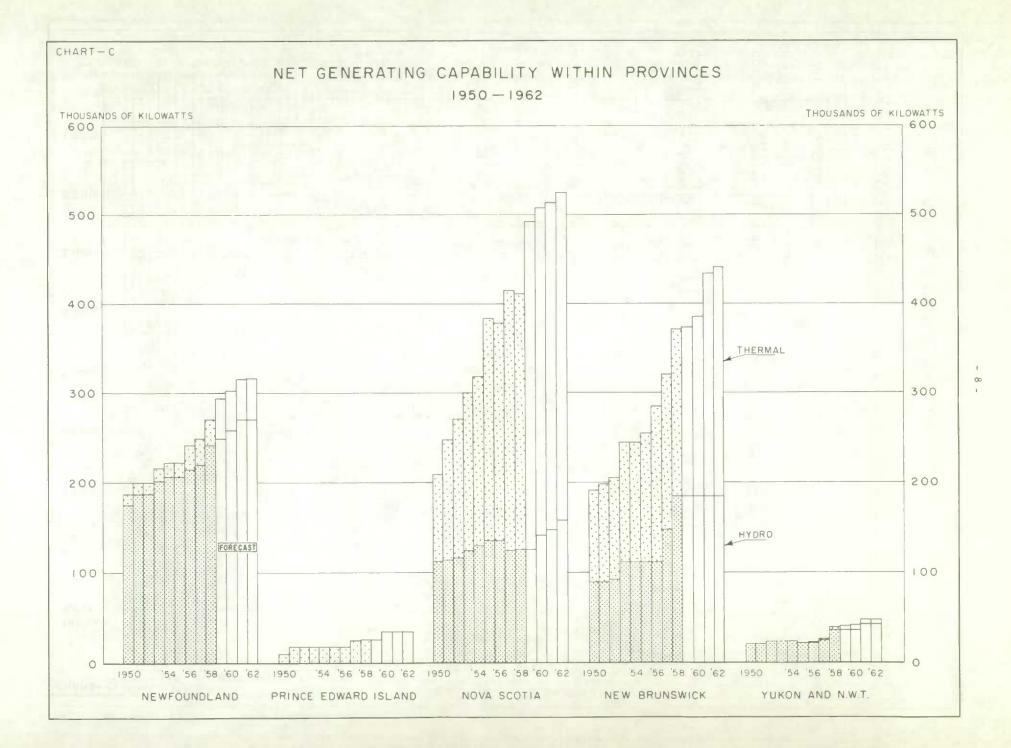
A firm which generates power primarily for use in own plants.

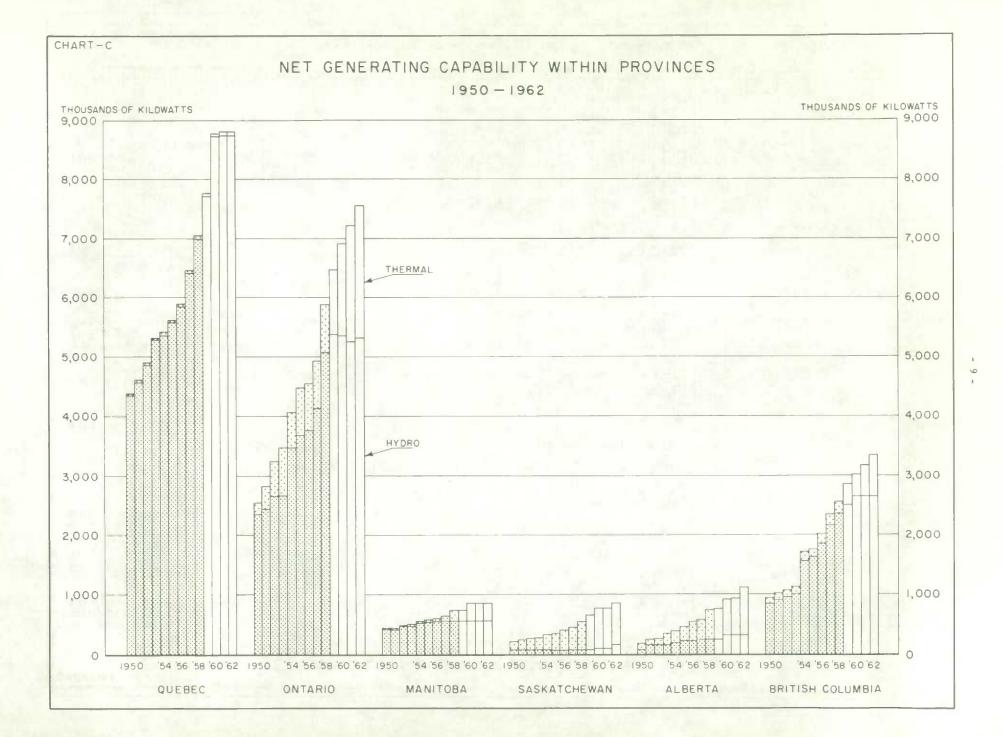


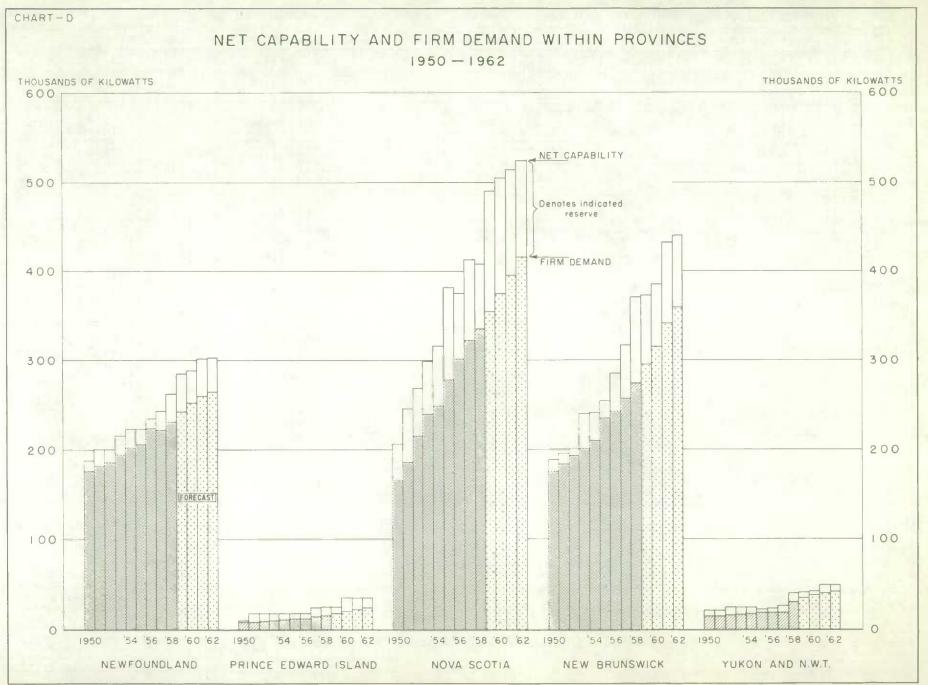
- 6 -

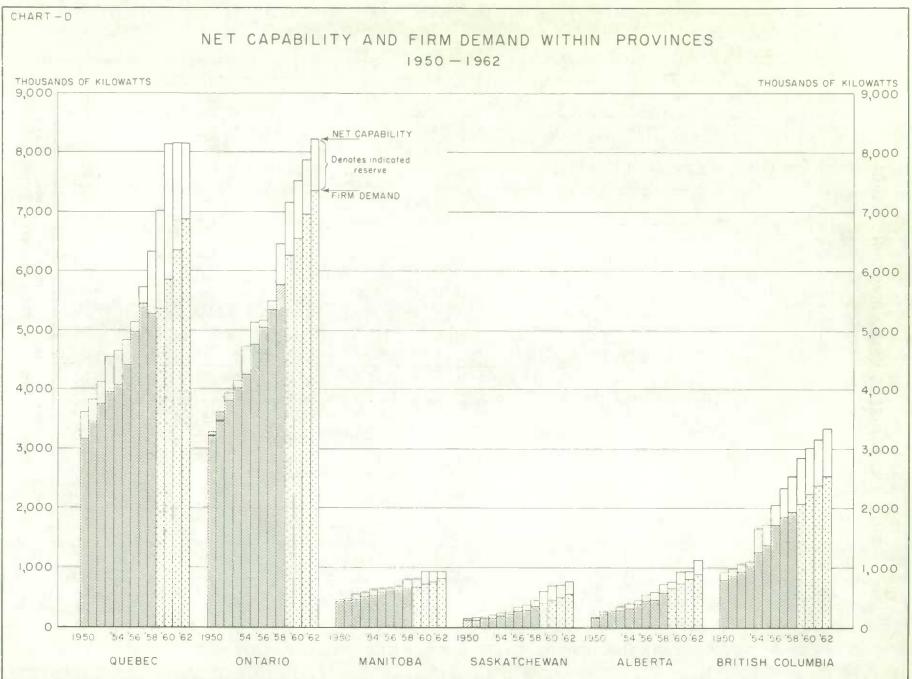


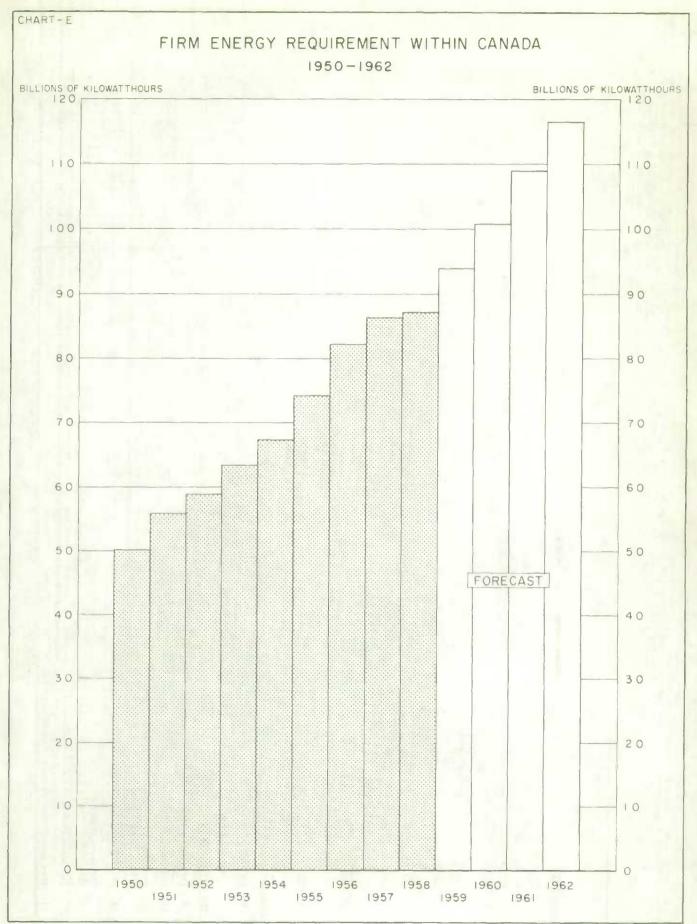
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#### TABLE I

#### SUMMARY - CANADA

#### Thousands of kilowatts

		1950	1953	1954	1955	1956	1957	1958	101	FOR	ECAST	
						2730	2731	1930	1959	1960	1961	1962
CAPABILITY	:											
l. Net	generating capability:								1.1.1.1			
	Hydro Therma l	8,575 788	10,183 1,720	11,719 1,609	12,211 1,936	12,841 2,142	14,143 2,326	15,912 2,716	17,074 3,512	18,419 4,218	18,376 4,855	18,505 5,494
2. Rece	ipts of firm power from:											
	Other provinces United States	~	-	-4	5	56	1.1		-	-	-	-
3. Deli	veries of firm power to:											
	Other provinces United States	176	177	176	166	147	150	152	152	152	106	106
4. Net	capability (1 + 2 - 3)	9,187	11,726	13,156	13,986	14,892	16,319	18,476	20,434	22,485	23,125	23,893
					ACTUAL					FORI	CAST	
FIRM POWER	PEAK LOAD:	-										
5. With	in Canada	8,313	10,553	11,355	12,472	13,870	14,923	15,485	16,433	17,566	18,847	20,137
6. Indi	cated shortage	217	80	4	64	47	2	-			-	-
7. Indi	cated demand within Canada (5 + 6)	8,530	10,633	11,359	12,536	13,917	14,925	15,485	16,433	17,566	18,847	20,137
INDICATED	RESERVE :											
8. Diff	erence (4 - 7)	+ 657	+1,093	+1,797	+1,450	+ 975	+1,394	+2,991	+4,001	+4,919	+4,278	+3,756
					HIL	LIONS	OF KIL	OWATT	HOURS		· · · · · · · · · · · · · · · · · · ·	
FIRM ENERG	Y REQUIREMENT:											
9. Firm	energy requirement within Canada	49,635	63,437	67,331	73,754	80,679	85,753	87,080	93,841	100,971	109,060	116,545
10. Indi	cated shortage	378	3	11	378	1,546	580	93	-	-		-
	cated firm energy requirement in Canada <u>(</u> 9 + 10)	50,013	63,440	67,342	74,132	82,225	86,333	87,173	93,841	100,971	109,060	116,545
12. Deli	veries of firm energy to:											
	Other provinces United States	1,418	1,378	1,357	1,332	1,226	1,172	1,264	1,225	1,223	947	845
(c)	Total (a + b)	1,418	1,378	1,357	1,332	1,226	1,172	1,264	1,225	1,223	947	845
13. Firm	energy requirement on Canada (11 + 12)	51,431	64,818	68,699	75,464	83,451	87,505	88,437	95.066	102,194	110,007	117,390

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#### TABLE I

SUMMARY - NEWFOUNDLAND (including Labrador)

Thousands of kilowatts

		1040	1070	1054					1000	FORE	CAST	
		1950	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962
CAPABILITY												-
1. Net;	generating capability:											
	Hydro Thermal	176	202 15	207 16	207 16	215 27	220 29	243 28	249 45	258 45	271 45	271
2. Rece	ipts of firm power from:											
	Other provinces United States		-	-		-	-		1		-	
3. Deli	veries of firm power to:											
	Other provinces United States	-	-	-	-	6	6	8	8	14	14	14
4. Net	capability (1 + 2 - 3)	188	217	223	223	236	243	263	286	289	302	303
					ACTUA	L				FORE	CAST	
FIRM POWER	PEAK LOAD:											
5. With	in province	1.77	195	201	206	222	222	231	242	252	260	265
6, Indi	cated shortage	-		1	L	2	-				-	-
7. Indi	cated demand within province (5 + 6)	177	195	202	207	224	222	231	242	252	260	265
INDICATED	RESERVE :		·									
8. Diff	erence (4 - 7)	+ 11	+ 22	+ 21	+ 16	+ 12	+ 21	+ 32	+ 44	+ 37	+ 42	+ 38
					MILL	IONSO	FKILO	WATT H	OURS			
FIRM ENERG	Y REQUIREMENT:											
9. Firm	energy requirement within province	1,058	1,190	1,225	1,289	1,374	1,333	1,320	1,366	1,482	1,562	1,676
10. Indi	cated shortage	-	-	9	10	-				-	-	-
	cated firm energy requirement in province (9 + 10)	1,058	1, 190	1,234	1,299	1,374	-1,333	1,320	1,366	1,482	1,562	1,676
12. Deli	veries of firm energy to:											4 <u>, , , , , , , , , , , , , , , , , , , </u>
	Other provinces United States	-	•	:	-	31	46	44	56	88	101	101
(c)	Total (a + b)	-	-	-	-	31	46	44	56	88	101	101
	energy requirement on the fince (11 + 12)	1,058	1,190	1,234	1,299	1,405	1,379	1,364	1,422	1,570	1,663	1,777

#### TABLE I

#### SUMMARY - PRINCE EDWARD ISLAND

#### Thousands of kilowatts

		1950	1953	1954	1955	1956	1957	1958		FORE	CAST	
		1990	1933	1334	1935	1930	1937	1930	1959	1960	1961	1962
CAPABILITY:												
1. Net generat	ting capability:											
(a) Hydro (b) Thermal	L	- 10	18	18	18	18	25	26	26	36	36	36
2. Receipts of	f firm power from:											
(a) Other p (b) United		-	-	-	Es -	•	40 70	-	-	-	-	-
3. Deliveries	of firm power to:											
(a) Other p (b) United		-	-	-	-	-	-	1	-	-	-	-
4. Net capabil	lity (1 + 2 - 3)	10	18	18	18	18	25	26	26	36	36	36
					ACTUA	L				FORE	CAST	
FIRM POWER PEAK I	LOAD:									_		-
5. Within prov	vince	8	10	11	12	12	14	16	18	21	22	24
6. Indicated s	shortage	-	-	-		-			-	-	_	-
7. Indicated d	demand within province (5 + 6)	8	10	11	12	12	14	16	18	21	22	24
INDICATED RESERVE	<u>E</u> :											
8. Difference	(4 - 7)	+ 2	+ 8	+ 7	+ 6	+ 6	+ 11	+ 10	+ 8	+ 15	+ 14	+ 12
					MILL	IONS O	FKILO	WATT H	OURS			
FIRM ENERGY REQUI	IREMENT :									54		
9. Firm energy	y requirement within province	31	41	46	51	53	60	69	76	86	96	107
10. Indicated s	shortage	-	-		-	-	-	-	_		-	-
	firm energy requirement vince (9 + 10)	31	41	46	51	53	60	69	76	86	96	107
12. Deliveries	of firm energy to:										22.3	
(a) Other p (b) United			1	•	-	-	-	-	-	:	-	-
(c) Total (	(a + b)	-	-	-		-	_	-	_	-	-	-
<ol> <li>Firm energy province (1</li> </ol>	y requirement on the 11 + 12)	31	41	46	51	53	60	69	76	86	96	107

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#### TABLE I

## SUMMARY - NOVA SCOTIA

						1007	1050		FORE	CAST	
Contraction of the second	1950	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962
CAPABILITY:											
1. Net generating capability:											
<ul><li>(a) Hydro</li><li>(b) Thermal</li></ul>	113 96	124 176	130 188	136 248	136 242	126 289	127 284	127 366	142 366	148 366	159 366
2. Receipts of firm power from:											
<ul><li>(a) Other provinces</li><li>(b) United States</li></ul>	-	-	-	-	-	-	-				
3. Deliveries of firm power to:											
<ul><li>(a) Other provinces</li><li>(b) United States</li></ul>	2	2	2	2	2	2	3	3	3	-	-
4. Net capability (1 + 2 - 3)	207	298	316	382	376	413	408	490	505	514	525
				ACTUA	L				FORE	CAST	
IRM POWER PEAK LOAD:											
5. Within province	163	235	245	278	301	322	335	354	375	395	417
6. Indicated shortage	4	4	3	-	-	-			-		-
7. Indicated demand within province (5 + 6)	167	239	248	278	301	322	335	354	375	395	417
INDICATED RESERVE:											
8. Difference (4 - 7)	+ 40	+ 59	+ 68	+104	+ 75	+ 91	+ 73	+136	+130	+119	+108
				MILL	IONSO	FKILO	WATT H	OURS			
FIRM ENERGY REQUIREMENT:											
9. Firm energy requirement within province	891	1,211	1,277	1,357	1,486	1,466	1,581	1,613	1,725	1,816	1,912
10. Indicated shortage	đα	-	-	_	-	-	-	-		-	-
11. Indicated firm energy requirement within province (9 + 10)	891	1,211	1,277	1,357	1,486	1,466	1,581	1,613	1,725	1,816	1,912
12. Deliveries of firm energy to:											
<ul><li>(a) Other provinces</li><li>(b) United States</li></ul>	6 -	7	7	8	8	8 -	10	11	12	13	14
(c) Total (a + b)	6	7	7	8	8	8	10	11	12	13	14
<ol> <li>Firm energy requirement on the province (11 + 12)</li> </ol>	897	1,218	1,284	1,365	1,494	1,474	1,591	1,624	1,737	1,829	1,926

#### TABLE 1

#### SUMMARY - NEW BRUNSWICK

Thousands of kilowatts

		1950	1953	1954	1055	1056	1057	1058		FORE	CAST	
		1930	1333	1934	1955	1956	1957	1958	1959	1960	1961	1962
CAPAI	BILITY:						5.5					
1.	Net generating capability:											
	<ul><li>(a) Hydro</li><li>(b) Thermal</li></ul>	90 102	112 132	112 132	112 144	112 174	148 173	185 187	185 188	185 201	185 249	185 256
2.	Receipts of firm power from:											
	<ul><li>(a) Other provinces</li><li>(b) United States</li></ul>	2	2	2	4	5	5	8	9	9	7	7 -
3.	Deliveries of firm power to:											
	<ul><li>(a) Other provinces</li><li>(b) United States</li></ul>	5	6	5	5	- 5	- 8	9	9	- 9	- 8	- 8
4.	Net capability (1 + 2 - 3)	189	240	241	255	286	318	371	373	386	433	440
		<u></u>			ACTUA	L				FORE	CAST	
FIRM	POWER PEAK LOAD:						-					
5.	Within province	177	201	210	235	243	258	273	296	317	341	360
6.	Indicated shortage	-	-	-	1	-	-		-	-		-
7.	Indicated demand within province (5 + 6)	177	201	210	236	243	258	273	296	317	341	360
INDI	CATED RESERVE :											
8.	Difference (4 - 7)	+ 12	+ 39	+ 31	+ 19	+ 43	+ 60	+ 98	+ 77	+ 69	+ 92	+ 80
					MILL	IONS O	FKILO	WATT H	OURS			
FIRM	ENERGY REQUIREMENT :											
9.	Firm energy requirement within province	961	1,044	1,189	1,237	1,262	1,389*	1,444	1,527	1,680	1,825	1,944
10.	Indicated shortage	-	-				-	-			-	-
11.	Indicated firm energy requirement within province (9 + 10)	961	1,044	1,189	1,237	1,262	1,389	1,444	1,527	1,680	1,825	1,944
12.	Deliveries of firm energy to:											
	<ul><li>(a) Other provinces</li><li>(b) United States</li></ul>	41	36	59	33	32	29	63	46	44	43	41
	(c) Total (a + b)	41	36	59	33	32	29	63	46	44	43	41
13.	Firm energy requirement on the province (11 + 12)	1,002	1,080	1,248	1,270	1,294	1,418	1,507	1,573	1,724	1,868	1,985

\* Revised.

#### TABLE I

#### SUMMARY - QUEBEC

Thousands of kilowatts

		1950	1953	1954	1955	1956	1957	1958		FORE	CAST	
		1930	1955	1934	1933	1930	1937	1958	1959	1960	1961	1962
CAPA	BILITY:											
1.	Net generating capability:											
	(a) Hydro (b) Thermal	4,370 26	5,300 35	5,378 35	5,583 36	5,854	6,406	6,992 61	7,700	8,812	<b>8,824</b> 71	8,824 71
2,	Receipts of firm power from:											
	<ul><li>(a) Other provinces</li><li>(b) United States</li></ul>	1	1	1 4	1 5	7	7	9	9	16	16	16
3.	Deliveries of firm power to:											
	<ul><li>(a) Other provinces*</li><li>(b) United States</li></ul>	732 56	737 56	719 56	729 56	6 <b>91</b> 56	694 56	673 57	703 57	704 57	707 57	709 57
4.	Net capability (1 + 2 - 3)	3,609	4,543	4,643	4,840	5,154	5,718	6,332	7,010	8,128	8,147	8,145
					ACTUA	L				FORE	CAST	
FIRM	POWER PEAK LOAD:											
5.	Within province	3,174	3,951	4,092	4,367	4,951	5,475	5,292	5,379	5,856	6,362	6,884
б,	Indicated shortage	-	4	•	44	44	2	-0		-	-	-
7.	Indicated demand within province (5 + 6)	3,174	3,955	4,092	4,411	4,995	5,477	5,292	5,379	5,856	6,362	6,884
INDI	CATED RESERVE:											
8.	Difference (4 - 7)	+ 435	+ 588	+ 551	+ 429	+ 159	+ 241	+1,040	+1,631	+2,272	+1,785	+1,261
					MILI	LIONS (	FKIL	OWATT P	OURS			
FIRM	ENERGY REQUIREMENT:											
9.	Firm energy requirement within province	20,442	26,711	27,954	29,479	31,088	31,845	31,491	32,767	36,148	40,086	43,436
10.	Indicated shortage	123	1	1	362	1,546	540	_	-	-	-	
11.	Indicated firm energy requirement within province (9 + 10)	20,565	26,712	27,955	29,841	32,634	32,385	31,491	32,767	36,148	40,086	43,436
12.	Deliveries of firm energy to:	<u>-</u>										
	<ul><li>(a) Other provinces*</li><li>(b) United States</li></ul>	4,425 490	4,434 490	4,331 490	4, <b>260</b> 490	4,117 491	4,075 485	3,971 490	3,979 490	3,987 490	3,989 490	3,991 490
	(c) Total (a + b)	4,915	4,924	4,821	4,750	4,608	4,560	4,461	4,469	4,477	4,479	4,481
13.	Firm energy requirement on the province (11 + 12)	25,480	31,636	32,776	34, 591	37,242	36,945	35,952	37, 236	40,625	44,565	47,917

\* Includes deliveries supplied from Cedars on a short term basis.

#### TABLE I

#### SUMMARY - ONTARIO

Thousands of kilowatts

		1950	1953	1954	lars	107/	1057	100		FORE	CAST	
		1930	1733	1934	1955	1956	1957	1958	1959	1960	1961	1962
CAPABI	LITY:											
1. 1	Net generating capability:											
	(a) Hydro (b) Thermal	2,367 199	2,684 809	3,481 607	3,688 800	3,778 787	4,145 787	5,081 800	5,381 1,181	5,350 1,561	5,267 1,960	5,318 2,245
2. 1	Receipts of firm power from:											
	<ul><li>(a) Other provinces*</li><li>(b) United States</li></ul>	741	746	732	741	702	658	668	697	698	700	702
3. 1	Deliveries of firm power to:											
	<ul><li>(a) Other provinces</li><li>(b) United States</li></ul>	1 85	1 85	1 85	1 85	1 86	1 86	1 86	1 86	2 86	2 41	2 41
4. 1	Net capability (1 + 2 - 3)	3,221	4,153	4,734	5,143	5,180	5,503	6,462	7,172	7,521	7,884	8,222
					ACTUA	L				FORE	CAST	
FIRM P	OWER PEAK LOAD:				-			100				
5. 1	Within province	3,078	3,969	4,261	4,757	5,064	5,369	5,794	6,279	6,565	6,961	7,354
6.	Indicated shortage	213	60		18	<b>D</b> =				-		
7.	Indicated demand within province (5 + 6)	3,291	4,029	4,261	4,775	5,064	5,369	5,794	6,279	6,565	6,961	7,354
NDICA'	TED RESERVE :											
8. 1	Difference (4 - 7)	- 70	+ 124	+ 473	+ 368	+ 116	+ 134	+ 668	+ 893	+ 956	+ 923	+ 86
					мгл	LIONS	OF KILO	WATT H	OURS			
IRM E	NERGY REQUIREMENT :											
9. 1	Firm energy requirement within province	18,016	22,985	23,928	26,376	28,875	30,768	31,401	35,085	36,779	38,692	40,989
10. 1	Indicated shortage	255	2	1	6	-			-			
	Indicated firm energy requirement within province (9 + 10)	18,271	22.987	23,929	26,382	28,875	30,768	31,401	35,085	36,779	38,692	40,989
12. I	Deliveries of firm energy to:											
2	<ul><li>(a) Other provinces</li><li>(b) United States</li></ul>	2 703	3 668	3 624	3 687	4 703	4 658	5 711	5 689	5 689	5 414	5 3 14
	(c) Total (a + b)	705	671	627	690	707	662	716	694	694	419	319
	Firm energy requirement on the province (11 + 12)	18,976	23,658	24,556	27,072	29,582	31,430	32,117	35,779	37,473	39,111	41,308

\* Includes deliveries received from Cedars on a short term basis.

#### TABLE I

#### SUMMARY - MANITOBA

	1000	1050	1051	1055	1000	1057	1059		FORE	CAST	-
	1950	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962
CAPABILITY:	1.11										
1. Net generating capability:											
(a) Hydro (b) Thermal	418 10	487 23	522 46	547 46	556 46	561 78	566 168	566 168	566 294	566 294	566 294
2. Receipts of firm power from:											
<ul><li>(a) Other provinces</li><li>(b) United States</li></ul>	68	79	80	79	64	69	68	72	74	74	74
3. Deliveries of firm power to:											
<ul><li>(a) Other provinces</li><li>(b) United States</li></ul>	9	9	13	14	14 -	14	-	-	-	-	-
4. Net capability (1 + 2 - 3)	487	580	635	658	652	694	802	806	934	934	934
				ACTUA	L				FORE	CAST	
FIRM POWER PEAK LOAD:											
5. Within province	419	512	533	594	605	608	646	688	730	770	811
6. Indicated shortage	55	64	-	-	-	-	-	-	-	-	-
7. Indicated demand within province (5 + 6)	419	512	533	594	605	608	646	688	730	770	811
INDICATED RESERVE :											
8. Difference (4 - 7)	+ 68	+ 68	+ 102	+ 64	+ 47	+ 86	+ 156	+ 118	+ 204	+ 164	+ 123
				MILL	IONS O	FKILO	WATT H	OURS			
FIRM ENERGY REQUIREMENT:				-			1.1				
9. Firm energy requirement within province	2,218	2,705	2,886	3,122	3,414	3,435	3,557	3,796	4,052	4,303	4,504
10. Indicated shortage	-	-	-	-	-		-	-	-	-	-
<ol> <li>Indicated firm energy requirement within province (9 + 10)</li> </ol>	2,218	2,705	2,886	3,122	3,414	3,435	3,557	3,796	4,052	4,303	4,504
12. Deliveries of firm energy to:											
<ul><li>(a) Other provinces</li><li>(b) United States</li></ul>	79	79	114	114	94	136	-		-	1	-
(c) Total (a + b)	79	79	114	114	94	136	-	-	-	-	-
<ol> <li>Firm energy requirement on the province (11 + 12)</li> </ol>	2,297	2,784	3,000	3,236	3,508	3,571	3,557	3,796	4,052	4,303	4,504

#### TABLE I

#### SUMMARY - SASKATCHEWAN

		1950	1953	1954	1055	105/	1057	1000		FORE	CAST	
		1930	1733	1934	1955	1956	1957	1958	1959	1960	1961	1962
CAPA	BILITY:											
1.	Net generating capability:											
	<ul><li>(a) Hydro</li><li>(b) Thermal</li></ul>	85 129	85 197	85 243	82 257	82 320	87 376	87 451	87 584	107 670	107 670	174 670
2.	Receipts of firm power from:											
	<ul><li>(a) Other provinces</li><li>(b) United States</li></ul>	•	-	-	1	1	:	1	2 -	-	-	-
3.	Deliveries of firm power to:											
	<ul><li>(a) Other provinces</li><li>(b) United States</li></ul>	68	79	80	79	64	72	68	72	74	74	74
4.	Net capability (1 + 2 - 3)	146	203	248	260	338	391	471	601	703	703	770
					ACTUA	L				FORE	CAST	
FIRM	POWER PEAK LOAD:	1.11				100						
5.	Within province	128	169	196	227	278	299	353	405	450	500	555
6.	Indicated shortage	**	-	-	· · ·	-	-					
7.	Indicated demand within province (5 + 6)	128	169	196	227	278	299	353	405	450	500	555
INDI	CATED RESERVE:											
8.	Difference (4 - 7)	+ 18	+ 34	+ 52	+ 33	+ 60	+ 92	+ 118	+ 196	+ 253	+ 203	+ 215
					MILL	IONS O	FKILO	WATT H	OURS			
FIRM	ENERGY REQUIREMENT:					_						
9.	Firm energy requirement within province	405	629	742	877	1,047	1,276	1,422	1,623	1,814	2,025	2,225
10.	Indicated shortage		-		-	**	-		-	-		-
11.	Indicated firm energy requirement within province (9 + 10)	405	629	742	877	1,047	1,276	1,422	1,623	1,814	2,025	2,225
12.	Deliveries of firm energy to:											
	<ul><li>(a) Other provinces</li><li>(b) United States</li></ul>	500	559	558	571	554	503	504	523	523	553	553
	(c) Total (a + b)	500	559	558	571	554	503	504	523	523	553	5 5 3
13.	Firm energy requirement on the province (11 + 12)	905	1,188	1,300	1,448	1,601	1,779	1,926	2,146	2,337	2,578	2,778

#### TABLE I

#### SUMMARY - ALBERTA

						1447	1010		FORE	CAST	
	1950	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962
CAPABILITY:		1111									
1. Net generating capability:							1				
(a) Hydro (b) Thermal	83 108	162 187	202 194	220 238	220 338	238 350	238 496	<b>238</b> 530	318 602	318 614	318 800
2. Receipts of firm power from:											
<ul><li>(a) Other provinces</li><li>(b) United States</li></ul>	-		4	-	4	4	4	4	4	4	4
3. Deliveries of firm power to:											
<ul><li>(a) Other provinces</li><li>(b) United States</li></ul>	3	8	e. 17	3	1	-	1	2	-		-
4. Net capability (1 + 2 - 3)	188	341	400	455	562	592	737	770	924	936	1,122
				ACTUA	L				FORE	CAST	
FIRM POWER PEAK LOAD:											
5. Within province	176	284	313	391	451	476	580	654	722	800	880
6. Indicated shortage	-	-	~	-	-	-	-	do	-	-	-
7. Indicated demand within province (5 + 6)	176	284	313	391	451	476	580	654	722	800	880
INDICATED RESERVE :											
8. Difference (4 - 7)	+ 12	+ 57	+ 87	+ 64	+ 111	+ 116	+ 157	+ 116	+ 202	+ 136	+ 242
				MILL	IONS O	FKILO	WATT H	OURS			
FIRM ENERGY REQUIREMENT :											
9. Firm energy requirement within province	1,023	1,372	1,581	1,859	2,180	2,424	2,760	3,054	3,382	3,727	4,103
10. Indicated shortage	-	~	-	-	-	-	-		-	-	-
<ol> <li>Indicated firm energy requirement within province (9 + 10)</li> </ol>	1,023	1,372	1,581	1,859	2,180	2,424	2,760	3,054	3,382	3,727	4,103
12. Deliveries of firm energy to:											
<ul><li>(a) Other provinces</li><li>(b) United States</li></ul>	14	6	-	1	-	-	-	-			-
(c) Total (a + b)	14	6	-		-	-	-	-din		-	-
<ol> <li>Firm energy requirement on the province (11 + 12)</li> </ol>	1,037	1,378	1,581	1,859	2,180	2,424	2,760	3,054	3,382	3,727	4,103

#### TABLE I

#### SUMMARY - BRITISH COLUMBIA

		1050	1000	105/	1055	10.54				FORE	CAST	
		1950	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962
CA PA	BILITY:							_				·
1.	Net generating capability:											
	(a) Hydro (b) Thermal	852 96	1,003 128	1,578 130	1,614	1,866 153	2,187 163	2,356 212	2,504	2,644 377	2,647 545	2,647 705
2.	Receipts of firm power from:											
	<ul><li>(a) Other provinces</li><li>(b) United States</li></ul>	3	8	ст а	3	52	-	-	-		**	
3.	Deliveries of firm power to:											
	<ul><li>(a) Other provinces</li><li>(b) United States</li></ul>	30	30	4 30	20	4	4	4	4 -	4	4 -	4
4.	Net capability (1 + 2 - 3)	921	1,109	1,674	1,730	2,067	2,346	2,564	2,859	3,017	3,188	3,348
					ACTUA	L				FORE	CAST	
FIRM	POWER PEAK LOAD:									10		
5.	Within province	799	1,010	1,275	1,386	1,724	1,861	1,935	2,083	2,240	2,396	2,546
6.	Indicated shortage		12	-	-	1	•	•		-		-
7.	Indicated demand within province (5 + 6)	799	1,022	1,275	1,386	1,725	1,861	I,935	2,083	2,240	2,396	2,546
INDI	CATED RESERVE:											
8.	Difference (4 - 7)	+ 122	+ 87	+ 399	+ 344	+ 342	+ 485	+ 629	+ 776	+ 777	+ 792	+ 802
					MILL	IONS C	FKILO	WATT H	OURS			
FIRM	ENERGY REQUIREMENT:											
9.	Firm energy requirement within province	4,523	5,466	6,414	8,011	9,802	11,642	11,904	12,757	13,638	14,732	15,445
10.	Indicated shortage		-	-	-	-	40	93		-	-	-
11.	Indicated firm energy requirement within province (9 + 10)	4,523	5,466	6,414	8,011	9,802	11,682	11,997	12,757	13,638	14,732	15,445
12.	Deliveries of firm energy to:											
	<ul><li>(a) Other provinces</li><li>(b) United States</li></ul>	-	184	10 184	10 122	10	9	6	6 -	7	7	7
	(c) Total (a + b)	184	184	194	132	10	9	6	6	7	7	7
13.	Firm energy requirement on the province (11 + 12)	4,707	5,650	6,608	8,143	9,812	11,691	12,003	12,763	13,645	14,739	15,452

#### TABLE I

## SUMMARY - YUKON AND NORTH WEST TERRITORIES

								1070		FORE	CAST	
		1950	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962
CAPAR	ILITY:	6										
1.	Net generating capability:											
	<ul><li>(a) Hydro</li><li>(b) Thermal</li></ul>	21	24	24	22	22 1	25 1	37 3	37 4	37 5	43 5	43 5
2.	Receipts of firm power from:											
	<ul><li>(a) Other provinces</li><li>(b) United States</li></ul>	-	-	-		-	-		-	-		-
3.	Deliveries of firm power to:											
	<ul><li>(a) Other provinces</li><li>(b) United States</li></ul>	1	-	-			-			-	-	
4.	Net capability (1 + 2 - 3)	21	24	24	22	23	26	40	41	42	48	48
					ACTUA	L				FORE	CAST	
FIRM	POWER PEAK LOAD:											
5.	Within province	14	17	18	19	19	19	30	35	38	40	41
6.	Indicated shortage	-	-	**		-	-	-	-	-	-	-
7.	Indicated demand within province (5 + 6)	14	17	18	19	19	19	30	35	38	40	41
INDI	ATED RESERVE:											
8.	Difference (4 - 7)	+ 7	+ 7	+ 6	+ 3	+ 4	+ 7	+ 10	+ 6	+ 4	+ 8	+ 7
					MILI	LIONS O	FKILO	WATT H	OURS			
FIRM	ENERGY REQUIREMENT :											
9,	Firm energy requirement within province	67	83	89	96	98	115	131	177	185	196	204
10.	Indicated shortage		-	-	-	-	-		-	-		-
11.	Indicated firm energy requirement within province (9 + 10)	67	83	89	96	98	115	131	177	185	196	204
12.	Deliveries of firm energy to:											
	<ul><li>(a) Other provinces</li><li>(b) United States</li></ul>		-	-	-		68 80	-		-	-	
	(c) Total (a + b)	-	-	-	-	-	-		-	-	-	
13.	Firm energy requirement on the province (11 + 12)	67	83	89	96	98	115	131	177	185	196	204

#### TABLE II

#### NET GENERATING CAPABILITY WITHIN PROVINCES\*

Thousands of kilowatts

									FORE	CAST		PER	CENTA GE CH	ANGE
PROVINCE	1950	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1954- 1958	1958- 1962	1954- 1962
Newfoundland (including Labrador)	188	217	223	223	242	249	271	294	303	316	317	21.5	17.0	42.2
Prince Edward Island	10	18	18	18	18	25	26	26	36	36	36	lolo . lo	38.5	100.0
Nova Scotia	209	300	318	384	378	415	411	493	508	514	525	29.2	27.7	65.1
New Brunswick	192	244	244	256	286	321	372	373	386	434	441	52.5	18.5	80.7
Quebec	4,396	5,335	5,413	5,619	5,890	6,461	7,053	7,761	8,873	8,895	8,895	30.3	26.1	64.3
Ontario	2,566	3,493	4,0 <mark>88</mark>	4,488	4,565	4,932	5,881	6,562	6,911	7,227	7,563	43.9	28.6	85.0
Manitoba	428	510	568	593	602	639	734	734	860	860	860	29.2	17.2	51.4
Saskatchewan	214	282	328	339	402	463	538	671	777	777	844	64.0	56,9	157.3
Alberta	191	349	396	458	55B	588	734	768	920	932	1,118	85.4	52,3	182.3
British Columbia	948	1,131	1,708	1,747	2,019	2,350	2,568	2,863	3,021	3,192	3,352	50.4	30.5	96.3
Yukon and N.W.T.	21	24	24	22	23	26	40	41	42	48	48	66.7	20,0	100.0
CANADA	9,363	11,903	13,328	14,147	14,983	16,469	18,628	20,586	22,637	23,231	23,999	39.8	28,8	80.1

\* Hydro plus thermal (Table I, item 1 a + 1 b).

#### TABLE III

FIRM POWER PEAK LOAD WITHIN PROVINCES\*

#### Thousands of kilowatts

									FORE	CAST		PER	CENTAGE CH	ANGE
PROVINCE	1950	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1954- 1958	1958- 1962	1954- 1962
Newfoundland (including Labrador)	177	195	202	207	224	222	231	242	252	260	265	14.4	14.7	31.2
Prince Edward Island	8	10	11	12	12	14	16	18	21	22	24	45.5	50.0	118.2
Nova Scotia	167	239	248	278	301	322	335	354	375	395	417	35.1	24.5	68.1
New Brunswick	177	201	210	236	243	258	· 273	296	317	341	360	30.0	31.9	71.4
Quebec	3,174	3,955	4,092	4,411	4,995	5,477	5,292	5,379	5,856	6,362	6,884	29.3	30,1	68.2
Ontario	3,291	4,029	4,261	4,775	5,064	5,369	5,794	6,279	6,565	6,961	7,354	36.0	26,9	72.6
Manitoba	419	512	533	594	605	608	646	688	730	770	811	21.2	25.5	52,2
Saskatchewan	128	169	196	227	278	299	353	405	450	500	555	80,1	57.2	183,2
Alberta	176	2.84	313	391	451	476	580	654	722	800	880	85.3	51.7	181.2
British Columbia	799	1,022	1,275	1,386	1,725	1,861	1,935	2,083	2,240	2,396	2,546	51,8	31.6	99.7
Yukon and N.W.T.	14	17	18	19	19	19	30	35	38	40	41	66.7	36.7	127.8
CANA DA	8,530	10,633	11,359	12,536	13,917	14,925	15,485	16,433	17,566	18,847	20,137	36.3	30.0	77.3

\* Indicated Firm Demand (Table I, item 7).

## TABLE IV

FIRM ENERGY REQUIREMENT WITHIN PROVINCES\*

Millions of Kilowatt Hours

							100010							
									FORE	CAST		PER	CENTAGE CH	ANGE
PROVINCE	1950	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1954- 1958	1958- 1962	1954- 1962
Newfoundland (including Labrador)	1,058	1,190	1,234	1,299	1,374	1,333	1,320	1,366	1, <mark>482</mark>	1,562	1,676	7.0	27.0	35.8
rince Edward Island	31	41	46	51	53	60	69	76	86	96	107	50.0	55.1	132.6
lova Scotia	891	1,211	1,277	1,357	1,486	1,466	1,581	1,613	1,725	1,816	1,912	23.8	20.9	49.7
New Brunswick	961	1,044	1,189	1,237	1,262	1,389	1,444	1,527	1,680	1,825	1,944	21.4	34.6	63.5
luebec	20,565	26,712	27,955	29,841	32,634	32,385	31,491	32,767	36,148	40,086	43,436	12.6	37.9	55.4
Ontario	18,271	22,987	23,929	26,382	28,875	30,768	31,401	35,085	36,779	38,692	40,989	31.2	30.5	71.3
lanitoba	2,218	2,705	2,886	3,122	3,414	3,435	3,557	3,796	4,052	4,303	4,504	23.3	26.6	56.1
Gaskatchewan	405	629	742	877	1,047	1,276	1,422	1,623	1,814	2,025	2,225	91.6	56.5	199.9
lberta	1,023	1,372	1,581	1,859	2,180	2,424	2,760	3,054	3,382	3,727	4,103	74.6	48.7	159.5
ritish Columbia	4,523	5,466	6,414	8,011	9,802	11,682	11,997	12,757	13,638	14,732	15,445	87.0	28.7	140.8
ukon and N.W.T.	67	83	89	96	98	115	131	177	185	196	204	47.2	55.7	129.2
CANADA	50,013	63,440	67,342	74,132	82,225	86,333	87,173	93,841	100,971	109,060	116,545	29.4	33.7	73.1

\* Table I, item 11.

#### TABLE V

#### INDICATED RESERVE\*

#### Thousands of Kilowatts

									FORE	CAST		PER	CENTAGE CH	NGE
	1950	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1954- 1958	1958- 1962	1954- 1962
undland luding Labrador)														
Gross capability Total firm demand on the province	188 177	217 195	223 202	223 207	242 230	249 228	271 2 <b>3</b> 9	294 250	303 266	316 274	317 279	21.5 18.3	17.0 16.7	42.2 38.1
Indicated reserve (1 - 2) Indicated reserve expressed as a % of total firm demand	11 6.2	22 11.2	21 10.4	16 7.7	12 5.2	21 9.2	32 13.4	44 17.6	37 13.9	42 15.3	38 13.6	XXX XXX	3083 2083	XXX XXX
e Edward Island														
Gross capability Total firm demand on the province	10 8	18 10	18 11	18 12	18 12	25 14	26 16	26 18	36 21	36 22	36 24	44.4 45.5	38,5 50.0	100.0 118.2
Indicated reserve (1 - 2) Indicated reserve expressed as a % of total firm demand	2 25.0	8 80.0	7 63.6	6 50.0	6 50.0	11 78,6	10 62.5	8	15 71.4	14 63.6	12 50.0	ХХХ	xxx xxx	XXX XXX
	æ	_												
Scotia														
Gross capability Total firm demand on the province	209 169	300 241	318 250	384 280	378 303	415 324	411 338	493 357	508 378	514 395	525 417	29.2 35.2	27.7 23.4	65.1 66.8
Indicated reserve (1 - 2)	40	59	68	104	75	91	73	136	130	119	108	жж	XXXX	жжж
of total firm demand	23.7	24.5	27.2	37.1	24.8	28.1	21.6	38.1	34.4	30,1	25.9	XXX	ххх	XXX
Brunswick														
Gross capability Total firm demand on the province	194 182	246 207	246 215	260 241	291 248	326 266	380 282	382 305	395 326	441 349	448 368	54.5 31.2	17.9 30.5	82.1 71.2
Indicated reserve (1 - 2) Indicated reserve expressed as a % of total firm demand	12	39 18,8	31	19	43	60 22.6	98 34,8	25.2	69 21.2	92 26,4	80	XXX	XXX	××× ×××
	undland luding Labrador) Gross capability Total firm demand on the province Indicated reserve (1 - 2) Indicated reserve expressed as a % of total firm demand e Edward Island Gross capability Total firm demand on the province Indicated reserve (1 - 2) Indicated reserve expressed as a % of total firm demand Scotia Gross capability Total firm demand on the province Indicated reserve (1 - 2) Indicated reserve (1 - 2) Indicated reserve expressed as a % of total firm demand Cross capability Total firm demand on the province Indicated reserve (1 - 2) Indicated reserve (1 - 2)	undland luding Labrador)         Gross capability Total firm demand on the province         Indicated reserve (1 - 2)         Indicated reserve expressed as a % of total firm demand         6.2         e Edward Island         Gross capability Total firm demand on the province         Indicated reserve (1 - 2)         Indicated reserve (1 - 2)         Indicated reserve expressed as a % of total firm demand         Scotia         Gross capability Total firm demand on the province         Indicated reserve (1 - 2)         Indicated re	undland luding Labrador)19501953Gross capability Total firm demand on the province177195Indicated reserve (1 - 2) Indicated reserve expressed as a 7, of total firm demand1122e Edward Island6.211.2Gross capability Total firm demand on the province1018 10Indicated reserve (1 - 2) Indicated reserve expressed as a 7, of total firm demand1018 10Indicated reserve (1 - 2) Indicated reserve expressed as a 7, of total firm demand28 10Scotia209300 169241Indicated reserve (1 - 2) Indicated reserve expressed as a 7, of total firm demand23.724.5Scotia23.724.5300Scotia firm demand on the province169241Indicated reserve (1 - 2) Indicated reserve (1 - 2)1239	undland luding Labrador)195019531954Gross capability Total firm demand on the province188 177217 195202Indicated reserve $(1 - 2)$ Indicated reserve expressed as a 7 of total firm demand11 2221 21 22Gross capability Total firm demand on the province10 818 1016 11e Edward Island10 810 1110 11Gross capability Total firm demand on the province2 8 77 25.08 60.0Indicated reserve (1 - 2) Indicated reserve expressed as a 7 of total firm demand on the province209 169300 241Gross capability Total firm demand on the province169 241240 250Indicated reserve (1 - 2) Indicated reserve expressed as a 7 of total firm demand20,7 21,724,5 27,2Indicated reserve (1 - 2) Indicated reserve (1 - 2) <td>undland luding Labrador)       undland luding Labrador)         Gross capability Total firm demand on the province       188 177       217 195       223 202       223 207         Indicated reserve (1 - 2) Indicated reserve expressed as a % of total firm demand       11       22       21       16         Cross capability of total firm demand       10       18       18       18       18         Cross capability Total firm demand on the province       10       18       18       18       11       12         Indicated reserve (1 - 2) Indicated reserve expressed as a % of total firm demand       2       8       7       6         Scotia       209       300       318       384       384         Total firm demand on the province       169       241       250       280         Indicated reserve (1 - 2)       40       59       68       104         Indicated reserve (1 - 2)       40       59       68       104         Indicated reserve (1 - 2)       40       59       68       104         Indicated reserve (1 - 2)       194       246       246       260         Indicated reserve (1 - 2)       194       246       246       260         Indicated reserve (1 - 2)       194       2</td> <td>undland luding Lebrador)       1950       1953       1954       1955       1956         Undland luding Lebrador)       Gross capability Total firm demand on the province       188       217       223       223       242         Indicated reserve (1 - 2)       Indicated reserve expressed as a 7, of total firm demand       11       22       21       16       12         e Edward Island       6.2       11.2       10.4       7.7       5.2         e Edward Island       70       11       12       12       12         Indicated reserve (1 - 2)       10       18       18       18       18         Indicated reserve (1 - 2)       2       8       7       6       6         Indicated reserve (1 - 2)       2       8       7       6       6         Scotia       7       50.0       50.0       50.0       50.0       50.0         Scotia       7       40       59       68       104       75         Indicated reserve (1 - 2)       40       59       68       104       75         Indicated reserve (1 - 2)       23,7       24.5       27.2       37.1       24.8         Frunswick       194       246       246<td>1950       1953       1954       1955       1956       1957         undland liding labrador)       188       217       223       223       242       249         Total firm demand on the province       177       195       202       207       230       228         Indicated reserve (1 - 2)       11       22       21       16       12       21         Indicated reserve expressed as a %       6.2       11.2       10.4       7.7       5.2       9.2         e Edward Island       10       18       18       18       18       25       11       12       12       14         Gross capability       100       18       18       18       18       25       11       12       12       14         Indicated reserve (1 - 2)       2       8       7       6       6       11       12       12       14         Indicated reserve expressed as a %       209       300       51.6       50.0       78.6       324         Indicated reserve (1 - 2)       20       300       31.8       384       37.8       415         Indicated reserve (1 - 2.)       40       59       68       104       75</td><td>undland luding Labrador)       1950       1953       1954       1955       1956       1957       1958         Gross capability Total firm demand on the province       188       217       223       223       242       249       271         Indicated reserve (1 - 2) Indicated reserve (2 - 2)       11       22       21       16       12       21       32         e Edward Island       6.2       11.2       10.4       7.7       5.2       9.2       13.4         e Edward Island       10       18       18       18       18       18       25       26         Indicated reserve (1 - 2)       10       18       18       18       18       25       26         Indicated reserve (1 - 2)       20       80.0       63.6       50.0       50.0       76.6       62.5         Scotia       209       300       318       384       378       415       411         Indicated reserve (1 - 2)       40       59       68       104       75       91       73         Indicated reserve expressed as a 7, of total firm demand on the province       19       24       245       27.2       37.1       24.8       28.1       21.6         <th< td=""><td>Indiand         Instant         Instant         Instant         Instant         Instant           Indiand         Indiand         Instant         Inst</td><td><math display="block">\begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td><td>PORECAST           PORECAST           PORECAST           Indicate reserve (1 - 2)           Indicated reserve expressed as a 7, of total firm demand           Indicated reserve expressed as a 7, of total firm demand on the province           Imagemand on the province           <th< td=""><td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td><td><math display="block">\begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td><td><math display="block">\frac{1950}{1951} \frac{1954}{1952} \frac{1954}{1955} \frac{1955}{1956} \frac{1957}{1956} \frac{1957}{1958} \frac{1956}{1959} \frac{1960}{1960} \frac{1961}{1961} \frac{1962}{1962} \frac{1953}{1958} \frac{1958}{1962} </math></td></th<></td></th<></td></td>	undland luding Labrador)       undland luding Labrador)         Gross capability Total firm demand on the province       188 177       217 195       223 202       223 207         Indicated reserve (1 - 2) Indicated reserve expressed as a % of total firm demand       11       22       21       16         Cross capability of total firm demand       10       18       18       18       18         Cross capability Total firm demand on the province       10       18       18       18       11       12         Indicated reserve (1 - 2) Indicated reserve expressed as a % of total firm demand       2       8       7       6         Scotia       209       300       318       384       384         Total firm demand on the province       169       241       250       280         Indicated reserve (1 - 2)       40       59       68       104         Indicated reserve (1 - 2)       40       59       68       104         Indicated reserve (1 - 2)       40       59       68       104         Indicated reserve (1 - 2)       194       246       246       260         Indicated reserve (1 - 2)       194       246       246       260         Indicated reserve (1 - 2)       194       2	undland luding Lebrador)       1950       1953       1954       1955       1956         Undland luding Lebrador)       Gross capability Total firm demand on the province       188       217       223       223       242         Indicated reserve (1 - 2)       Indicated reserve expressed as a 7, of total firm demand       11       22       21       16       12         e Edward Island       6.2       11.2       10.4       7.7       5.2         e Edward Island       70       11       12       12       12         Indicated reserve (1 - 2)       10       18       18       18       18         Indicated reserve (1 - 2)       2       8       7       6       6         Indicated reserve (1 - 2)       2       8       7       6       6         Scotia       7       50.0       50.0       50.0       50.0       50.0         Scotia       7       40       59       68       104       75         Indicated reserve (1 - 2)       40       59       68       104       75         Indicated reserve (1 - 2)       23,7       24.5       27.2       37.1       24.8         Frunswick       194       246       246 <td>1950       1953       1954       1955       1956       1957         undland liding labrador)       188       217       223       223       242       249         Total firm demand on the province       177       195       202       207       230       228         Indicated reserve (1 - 2)       11       22       21       16       12       21         Indicated reserve expressed as a %       6.2       11.2       10.4       7.7       5.2       9.2         e Edward Island       10       18       18       18       18       25       11       12       12       14         Gross capability       100       18       18       18       18       25       11       12       12       14         Indicated reserve (1 - 2)       2       8       7       6       6       11       12       12       14         Indicated reserve expressed as a %       209       300       51.6       50.0       78.6       324         Indicated reserve (1 - 2)       20       300       31.8       384       37.8       415         Indicated reserve (1 - 2.)       40       59       68       104       75</td> <td>undland luding Labrador)       1950       1953       1954       1955       1956       1957       1958         Gross capability Total firm demand on the province       188       217       223       223       242       249       271         Indicated reserve (1 - 2) Indicated reserve (2 - 2)       11       22       21       16       12       21       32         e Edward Island       6.2       11.2       10.4       7.7       5.2       9.2       13.4         e Edward Island       10       18       18       18       18       18       25       26         Indicated reserve (1 - 2)       10       18       18       18       18       25       26         Indicated reserve (1 - 2)       20       80.0       63.6       50.0       50.0       76.6       62.5         Scotia       209       300       318       384       378       415       411         Indicated reserve (1 - 2)       40       59       68       104       75       91       73         Indicated reserve expressed as a 7, of total firm demand on the province       19       24       245       27.2       37.1       24.8       28.1       21.6         <th< td=""><td>Indiand         Instant         Instant         Instant         Instant         Instant           Indiand         Indiand         Instant         Inst</td><td><math display="block">\begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td><td>PORECAST           PORECAST           PORECAST           Indicate reserve (1 - 2)           Indicated reserve expressed as a 7, of total firm demand           Indicated reserve expressed as a 7, of total firm demand on the province           Imagemand on the province           <th< td=""><td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td><td><math display="block">\begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td><td><math display="block">\frac{1950}{1951} \frac{1954}{1952} \frac{1954}{1955} \frac{1955}{1956} \frac{1957}{1956} \frac{1957}{1958} \frac{1956}{1959} \frac{1960}{1960} \frac{1961}{1961} \frac{1962}{1962} \frac{1953}{1958} \frac{1958}{1962} </math></td></th<></td></th<></td>	1950       1953       1954       1955       1956       1957         undland liding labrador)       188       217       223       223       242       249         Total firm demand on the province       177       195       202       207       230       228         Indicated reserve (1 - 2)       11       22       21       16       12       21         Indicated reserve expressed as a %       6.2       11.2       10.4       7.7       5.2       9.2         e Edward Island       10       18       18       18       18       25       11       12       12       14         Gross capability       100       18       18       18       18       25       11       12       12       14         Indicated reserve (1 - 2)       2       8       7       6       6       11       12       12       14         Indicated reserve expressed as a %       209       300       51.6       50.0       78.6       324         Indicated reserve (1 - 2)       20       300       31.8       384       37.8       415         Indicated reserve (1 - 2.)       40       59       68       104       75	undland luding Labrador)       1950       1953       1954       1955       1956       1957       1958         Gross capability Total firm demand on the province       188       217       223       223       242       249       271         Indicated reserve (1 - 2) Indicated reserve (2 - 2)       11       22       21       16       12       21       32         e Edward Island       6.2       11.2       10.4       7.7       5.2       9.2       13.4         e Edward Island       10       18       18       18       18       18       25       26         Indicated reserve (1 - 2)       10       18       18       18       18       25       26         Indicated reserve (1 - 2)       20       80.0       63.6       50.0       50.0       76.6       62.5         Scotia       209       300       318       384       378       415       411         Indicated reserve (1 - 2)       40       59       68       104       75       91       73         Indicated reserve expressed as a 7, of total firm demand on the province       19       24       245       27.2       37.1       24.8       28.1       21.6 <th< td=""><td>Indiand         Instant         Instant         Instant         Instant         Instant           Indiand         Indiand         Instant         Inst</td><td><math display="block">\begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td><td>PORECAST           PORECAST           PORECAST           Indicate reserve (1 - 2)           Indicated reserve expressed as a 7, of total firm demand           Indicated reserve expressed as a 7, of total firm demand on the province           Imagemand on the province           <th< td=""><td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td><td><math display="block">\begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td><td><math display="block">\frac{1950}{1951} \frac{1954}{1952} \frac{1954}{1955} \frac{1955}{1956} \frac{1957}{1956} \frac{1957}{1958} \frac{1956}{1959} \frac{1960}{1960} \frac{1961}{1961} \frac{1962}{1962} \frac{1953}{1958} \frac{1958}{1962} </math></td></th<></td></th<>	Indiand         Instant         Instant         Instant         Instant         Instant           Indiand         Indiand         Instant         Inst	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	PORECAST           PORECAST           PORECAST           Indicate reserve (1 - 2)           Indicated reserve expressed as a 7, of total firm demand           Indicated reserve expressed as a 7, of total firm demand on the province           Imagemand on the province <th< td=""><td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td><td><math display="block">\begin{array}{ c c c c c c c c c c c c c c c c c c c</math></td><td><math display="block">\frac{1950}{1951} \frac{1954}{1952} \frac{1954}{1955} \frac{1955}{1956} \frac{1957}{1956} \frac{1957}{1958} \frac{1956}{1959} \frac{1960}{1960} \frac{1961}{1961} \frac{1962}{1962} \frac{1953}{1958} \frac{1958}{1962} </math></td></th<>	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\frac{1950}{1951} \frac{1954}{1952} \frac{1954}{1955} \frac{1955}{1956} \frac{1957}{1956} \frac{1957}{1958} \frac{1956}{1959} \frac{1960}{1960} \frac{1961}{1961} \frac{1962}{1962} \frac{1953}{1958} \frac{1958}{1962} $

\* Gross capability (Table 1, item 1 + 2) less total firm demand on the provinces (Table 1, item 7 + 3).

#### TABLE V

#### INDICATED RESERVE\*

#### Thousands of Kilowatts

									FORE	CAST		PER	CENTAGE CH	ANGE
	1950	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1954- 1958	1958- 1962	1954- 1962
			1											
Quebec														
<ol> <li>Gross capability</li> <li>Total firm demand on the province</li> </ol>	4,397 3,962	5,336 4,748	5,418 4,867	5,625 5,196	5,901 5,742	6,468 6,227	7,062 6,022	7,770 6,139	8,889 6,617	8,911 7,126	8,911 7,650	30.3 23.7	26.2 27.0	64.5 57.2
													_	_
<ol> <li>Indicated reserve (1 - 2)</li> <li>Indicated reserve expressed as a %</li> </ol>	435	588	551	429	159	241	1,040	1,631	2,272	1,785	1,261	XXX	XXX	XXX
of total firm demand	11.0	12.4	11.3	8.3	2.8	3.9	17.3	26.6	34.3	25.0	16.5	жжж	жжж	жжж
Ontario														
<ol> <li>Gross capability</li> <li>Total firm demand on the province</li> </ol>	3,307 3,377	4,239 4,115	4,820 4,347	5,229 4,861	5,267 5,151	5,590 5,456	6,549 5,881	7,259 6,366	7,609 6,653	7,927 7,004	8,265 7,397	35.9 35.3	26.2 25.8	71.5
<ol> <li>Indicated reserve (1 - 2)</li> <li>Indicated reserve expressed as a %</li> </ol>	- 70	124	473	368	116	134	668	893	956	923	868	ххх	xxx	XXX
of total firm demand	-	3.1	11.1	7.7	2.3	2.5	11.4	14.0	14.4	13.2	11.7	ххх	ххх	XXX
Manitoba														
1. Gross capability	496	589	648	672	666	708	802	806	934	934	934	23.8	16.5	44.1
2. Total firm demand on the province	428	521	546	608	619	622	646	688	730	770	811	18.3	25.5	44.1
<ol> <li>Indicated reserve (1 - 2)</li> <li>Indicated reserve expressed as a %</li> </ol>	68	68	102	64	47	86	156	118	204	164	123	ххх	2003	xxx
of total firm demand	15,9	13.1	18.7	10.5	7.6	13.8	24.1	17.2	27.9	21.3	15.2	ххх	XXX	хжх
Saskatchewan											<u> </u>			
1. Gross capability	214	282	328	339	402	463	539	673	777	777	0//	(1.2	54.4	
2. Total firm demand on the province	196	248	276	306	342	371	421	477	524	574	844 629	64.3 52.5	56.6	157.3 127.9
3. Indicated reserve (1 - 2)	18	34	52	33	60	92	118	196	253	203	215	жж	ХХХ	ххх
<ol> <li>Indicated reserve expressed as a % of total firm demand</li> </ol>	20.0	16.8	21.3	12.0	17.5	24.8	28.0	41.1	48.3	35.4	34.2	жх	XXX	xxx

\* Gross capability (Table 1, item 1 + 2) less total firm demand on the provinces (Table 1, item 7 + 3).

#### TABLE V

#### INDICATED RESERVE\*

#### Thousands of Kilowatts

									FORE	CAST		PER	CENTAGE CHA	NGE
	1950	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1954- 1958	1958- 1962	1954- 1962
lberta										-				_
<ol> <li>Gross capability</li> <li>Total firm demand on the province</li> </ol>	191 179	349 292	400 313	458 394	562 451	<b>592</b> 476	738 581	772 656	924 722	936 800	1,122 880	84.5 85.6	52.0 51.5	180.5 181.2
<ol> <li>Indicated reserve (1 - 2)</li> <li>Indicated reserve expressed as a % of total firm demand</li> </ol>	12	57 19.5	87 27.8	64 16.2	111 24.6	116 24.4	157 27.0	116 17.7	202 28.0	136 17.0	242 27.5	XXX	хжж хжж	жжж
ritish Columbia														
<ol> <li>Gross capability</li> <li>Total firm demand on the province</li> </ol>	951 829	1,139 1,052	1,708 1,309	1,750 1,406	2,071 1,729	2,350 1,865	2,568 1,939	2,863 2,087	3,021 2,244	3,192 2,400	3,352 2,550	50.4 48.1	30.5 31.5	<b>96.3</b> 94.8
<ol> <li>Indicated reserve (1 - 2)</li> <li>Indicated reserve expressed as a % of total firm demand</li> </ol>	122	87 8.3	399 30.5	344 24.5	342 19.8	485 26.0	629 32.4	776 37.2	777 34.6	792 33.0	802 31.5	XXX	xxx xxx	xxx x x x
ukon and N.W.T.														
<ol> <li>Gross capability</li> <li>Total firm demand on the province</li> </ol>	21 14	24 17	24 18	22 19	23 19	26 19	40 30	41 35	42 38	48 40	48 41	66.7 66.7	20.0 36.7	100.0
<ol> <li>Indicated reserve (1 - 2)</li> <li>Indicated reserve expressed as a % of total firm demand</li> </ol>	7 50.0	7 41.2	6 33.3	3 15.8	4 21.1	7 36.8	10 33.3	6 17.1	4	8	7 17.1	XXX	XXX	000 000
CANA DA														
<ol> <li>Gross capability</li> <li>Total firm demand on Canada</li> </ol>	9,363 8,706	11,903 10,810	13,332 11,535	14,152 12,702	15,039 14,064	16,469 15,075	18,628 15,637	20,586 16,585	22,637	23,231 18,953	23,999 20,243	39.7 35.6	28.8 29.5	80.0 75.5
<ol> <li>Indicated reserve (1 - 2)</li> <li>Indicated reserve expressed as a % of total firm demand</li> </ol>	657 7.5	1,093 10.1	1,797 15.6	1,450 11.4	975 6.9	1,394 9.2	2,991 19.1	4,001 24.1	4,919 27.8	4,278 22.6	3,756	ххх ххх	ххх ххх	2000

\* Gross capability (Table 1, item 1 + 2) less total firm demand on the provinces (Table 1, item 7 + 3).

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Mr. D. Cass-Beggs, General Manager, Saskatchewan Power Corporation, Regina, Saskatchewan.

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The Policy Sub-Committee serves as an over-all co-ordinating agency for these surveys, the connecting link between the Dominion Bureau of Statistics, The Canadian Electrical Association and the interests of the electric power utility industry-atlarge.

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Members of the Surveys Sub-Committee serve as area representatives. The function of an area representative is primarily to act as the direct liaison between the company representatives in his area and the Dominion Bureau of Statistics on all matters relating to the power survey.

