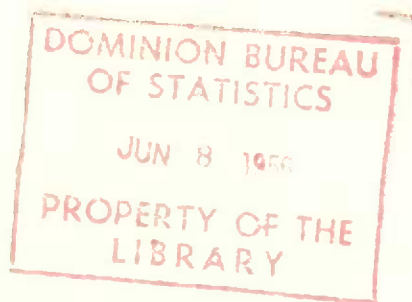


57-204 27



*Second*  
**ANNUAL ELECTRIC POWER SURVEY  
OF CAPABILITY AND LOAD**

March, 1956



**DOMINION BUREAU OF STATISTICS**  
Public Finance and Transportation Division  
Transportation and Public Utilities Section



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**March, 1956**

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## Introduction

This report presents the results of the second annual electric power survey of capability and load which was conducted in March, 1956 by the Dominion Bureau of Statistics in co-operation with the Canadian Electrical Association. The 82 electric power producers covered by this survey include all major private and publicly - operated electric utilities and certain other power-producing companies, part of whose production is generally for sale to the public. These 82 electric power producers generated approximately 98% of the power for sale in Canada and approximately 90% of the total kilowatt hours produced in the country. The figures contained in this report can, therefore, be regarded as representative of the whole electric power industry in Canada. In some provinces, however, the percentage coverage is considerably lower than for the country as a whole.

The first survey covered only capability and firm power peak loads, but, for the second survey, producers were also asked to report annual firm energy requirements. The results are presented for Canada as a whole and for each individual province for the ten years 1950-1959.

Capability and load figures are based on the situation as it existed at the time of each company's annual firm power peak load. Throughout the report, the full amount of contractual commitments for firm power is reported.

Net generating capability, as shown in the tables, is the output of generating facilities after deducting station service. It is based on actual operating experience assuming all equipment available at the time of the annual firm power peak load with no deduction for equipment not operating at that time, and with no allowance made for the effect of unfavourable water and ice conditions. Net generating capability should not be construed as representing the total installed capacity of the facilities on the basis of name-plate ratings.

For the years 1950 to 1955, the net generating capability is shown for installations actually in existence during the month in which the firm power peak load occurred. For the years 1956 to 1959 it is forecast by adding new installations to the 1955 capability and deducting units retired.

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 1) 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 generating capability plus purchases outside the province 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.

### Review of Survey Results

#### Summary:

Net Generating Capability: The generating capability of Canada in 1955 amounted to 13,905 thousand kilowatts, an increase of 6.1 per cent over the 1954 total of 13,101 thousand kilowatts. The generating capability is expected to be 19,339 thousand kilowatts in 1959, an increase of 39.1 per cent over 1955. The proportion of thermal generation to the total is expected to rise from 12.6 per cent in 1955 to 15.4 per cent in 1959.

Firm Power Peak Load: The firm power peak load or demand within Canada amounted to 12,291 thousand kilowatts in 1955, an increase of 10.5 per cent over the 1954 total of 11,125 thousand kilowatts. By 1959 the load is forecast to rise 39 per cent to 17,086 thousand kilowatts.

Indicated Reserve: The indicated reserve in Canada in 1955 was 1,486 thousand kilowatts and is expected to be 2,197 thousand kilowatts in 1959.

Firm Energy Requirement: The indicated firm energy requirement in Canada was 72,633 million kilowatt hours in 1955, an increase of 10.1 per cent over the 1954 total of 65,978 million kilowatt hours. It is expected to climb to 101,508 million kilowatt hours in 1959 or by 39.8 per cent.

Table 1 - Summary (Pages 13 to 24): This table presents the information which was collected from each of the 82 producers of power included in the survey, summarized for each of the provinces and for Canada. It shows the capability, firm power peak load, indicated reserve, and, for the first time, firm energy requirements.

Table II - Net Generating Capability Within Provinces (Page 25): The growth in net generating capability as illustrated in Table II is quite impressive. During the four-year period 1951-1955 the growth for Canada as a whole amounted to 4 million kilowatts or 40.9 per cent over the 1951 total. The indicated

growth of 39.1 per cent during the forecast period 1955 to 1959 represents an additional 5.4 million kilowatts of net generating capability. The total growth, both actual and planned over the period 1951 to 1959, is 96 per cent.

Although the forecast of net generating capability for Canada as a whole shows an increase of 96 per cent for the period 1951 to 1959, it varies considerably for the several provinces from a low of 31.8 per cent for Newfoundland to 204.8 per cent for British Columbia.

Table III - Firm Power Peak Load within Provinces (Page 26): During the period 1951 to 1959 the firm power peak load or demand within Canada is expected to increase by 8 million kilowatts or 87.9 per cent.

Whereas the actual increase in firm power peak demand experienced during the period 1951 to 1955 amounted to 3.2 million kilowatts or 35.2 per cent over the 1951 total, that forecast for the next four years amounts to 4.8 millions or 39 per cent over the 1955 total.

The increase, 1951-1959, for Canada as a whole, reflects a fairly steady and consistent growth from the 9 million kilowatts in 1951 to 17.1 million forecast for 1959. The actual growth experienced in the past four years, 1951 to 1955, amounted to a rate of 7.9 per cent per annum. The increase, forecast for the next four years 1955-1959 inclusive, is equal to a rate of growth of 8.6 per cent per annum.

Table IV - Firm Energy Requirement within Provinces (Page 27): Kilowatt hours needed to meet the firm energy requirement within the country totalled 72,633 million in 1955, an increase of 18,044 million kilowatt hours or 33.1 per cent over the 1951 total of 54,589 million. During the period 1955 to 1959, the firm energy requirement is expected to rise substantially each year to a total of 101,508 million kilowatt hours in 1959, or by 39.8 per cent. By 1959, the energy requirements are forecast to be almost double those in 1951.

Table V - Indicated Reserve (Page 28): The electric utility industry must provide sufficient power to meet demand and to provide for contingencies.

Gross capability for any province may be defined as consisting of net generating capability (hydro plus thermal) plus purchases of firm power under firm obligation from utilities outside the province. Total demand for any province consists of firm power peak load within the province, plus any indicated shortage or rejected load as well as deliveries of firm power to utilities outside the province. In Table V, gross capability is related to total firm demand on the provinces and on Canada. The difference or indicated reserve, expressed as a percentage of total firm demand, shows to what extent productive resources have been able to keep pace with total firm demand in this rapidly growing industry.

For the three years 1951, 1955 and 1959, the indicated reserves in Canada were 621, 1,486 and 2,197 thousand kilowatts, which correspond to reserves of 6.7, 11.9 and 12.8 per cent, respectively, over the total demand in those years. Figures for the various provinces and Canada vary considerably from year to year and are shown in detail in this table.

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.

Chart A - Net Generating Capability within Canada (Page 6 ): 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 has increased from 877 thousand kilowatts or 8.9 per cent of the net generating capability within Canada in 1951 to 2,981 thousand kilowatts or 15.4 per cent forecast for 1959.

Chart B - Net Generating Capability within Provinces (Pages 7-8 ): This chart presents for each of the provinces, the information contained in Chart A. It illustrates the comparative importance of thermal and hydro generation within provinces.

Chart C - Net Capability and Firm Demand within Canada (Page 9 ): Chart C provides an indication of the reserves available to meet firm demand for electric power within Canada.

Chart D - Net Capability and Firm Demand within Provinces (Pages 10-11 ): The fourth 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): This is an illustration of the growth in Canadian firm energy requirements by years for the period 1950 to 1959.



DEFINITIONS

NET GENERATING CAPABILITY

The maximum net kilowatt output (after station service) available from the generating facilities of the UTILITY or SYSTEM 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 OBLIGATIONS

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 less deliveries of firm power under firm obligation.

FIRM POWER PEAK LOAD

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

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 III (which generates at least part of its own power ).

CHART - A

### NET GENERATING CAPABILITY WITHIN CANADA 1950 - 1959

THOUSANDS OF KILOWATTS  
20,000

19,000

18,000

17,000

16,000

15,000

14,000

13,000

12,000

11,000

10,000

9,000

8,000

7,000

6,000

5,000

4,000

3,000

2,000

1,000

0

1950

1953

1956

1959

TOTAL

THERMAL

HYDRO

Source: Table I, item la plus lb

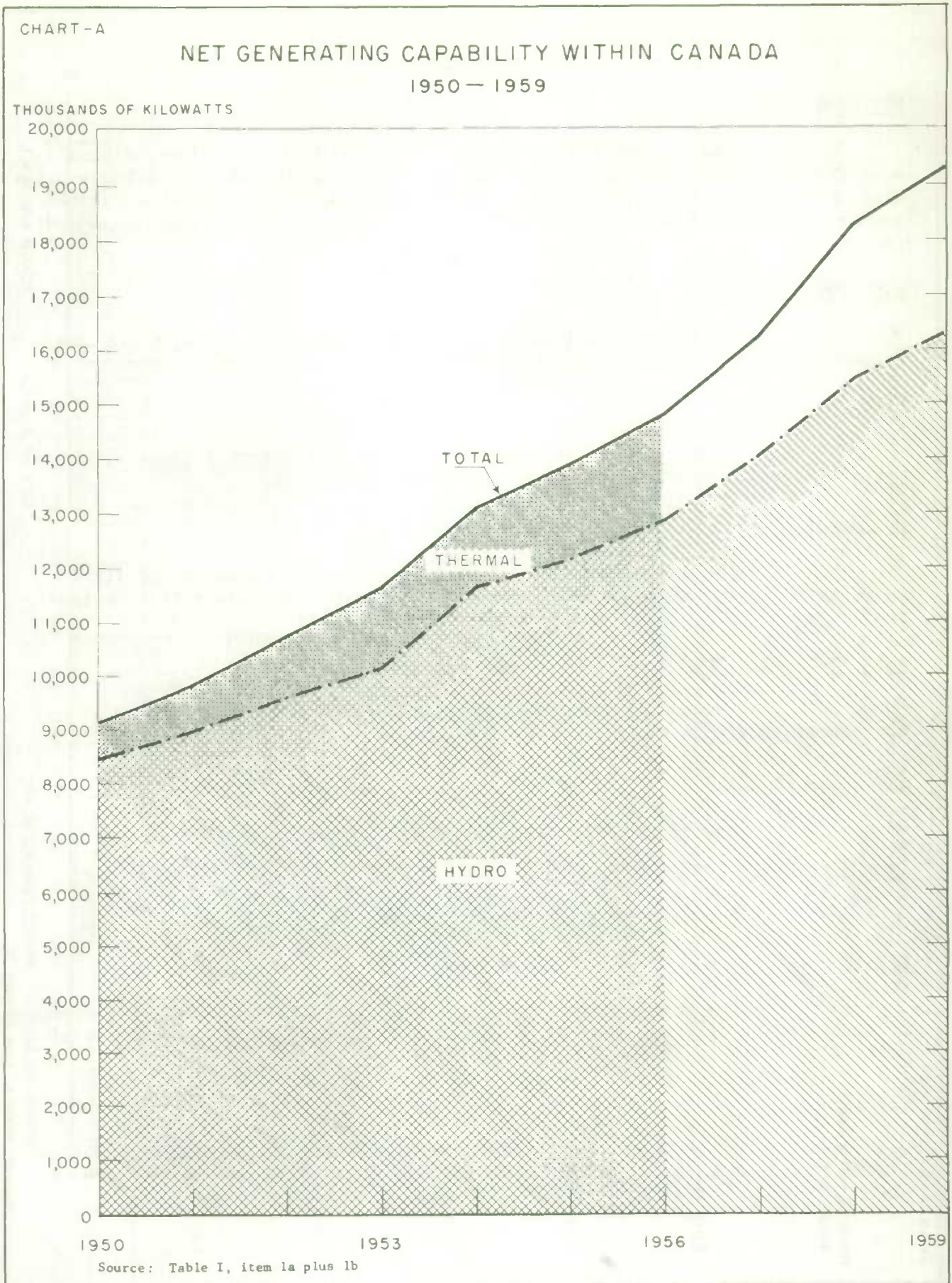


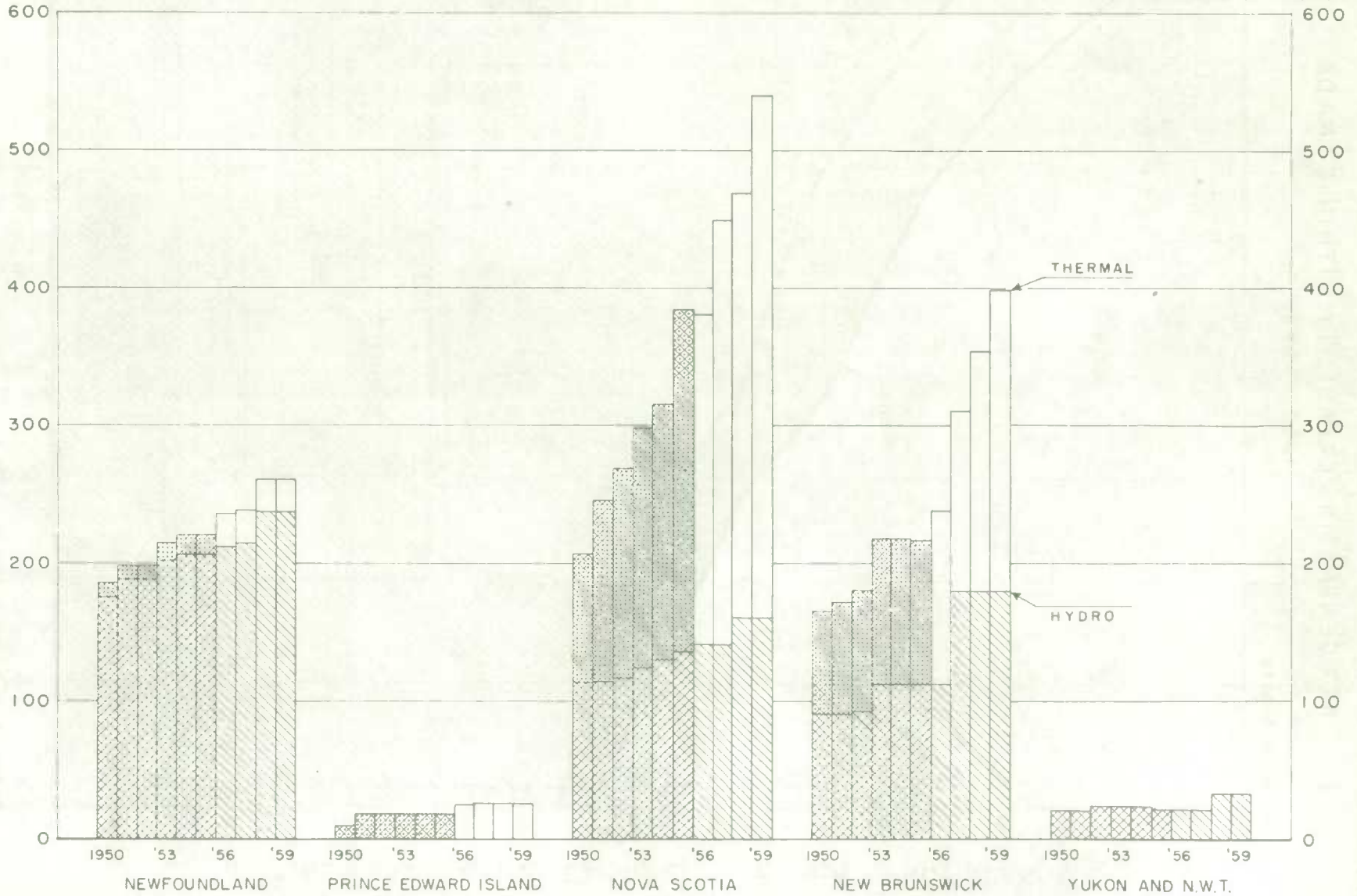
CHART - B

NET GENERATING CAPABILITY WITHIN PROVINCES

1950 — 1959

THOUSANDS OF KILOWATTS

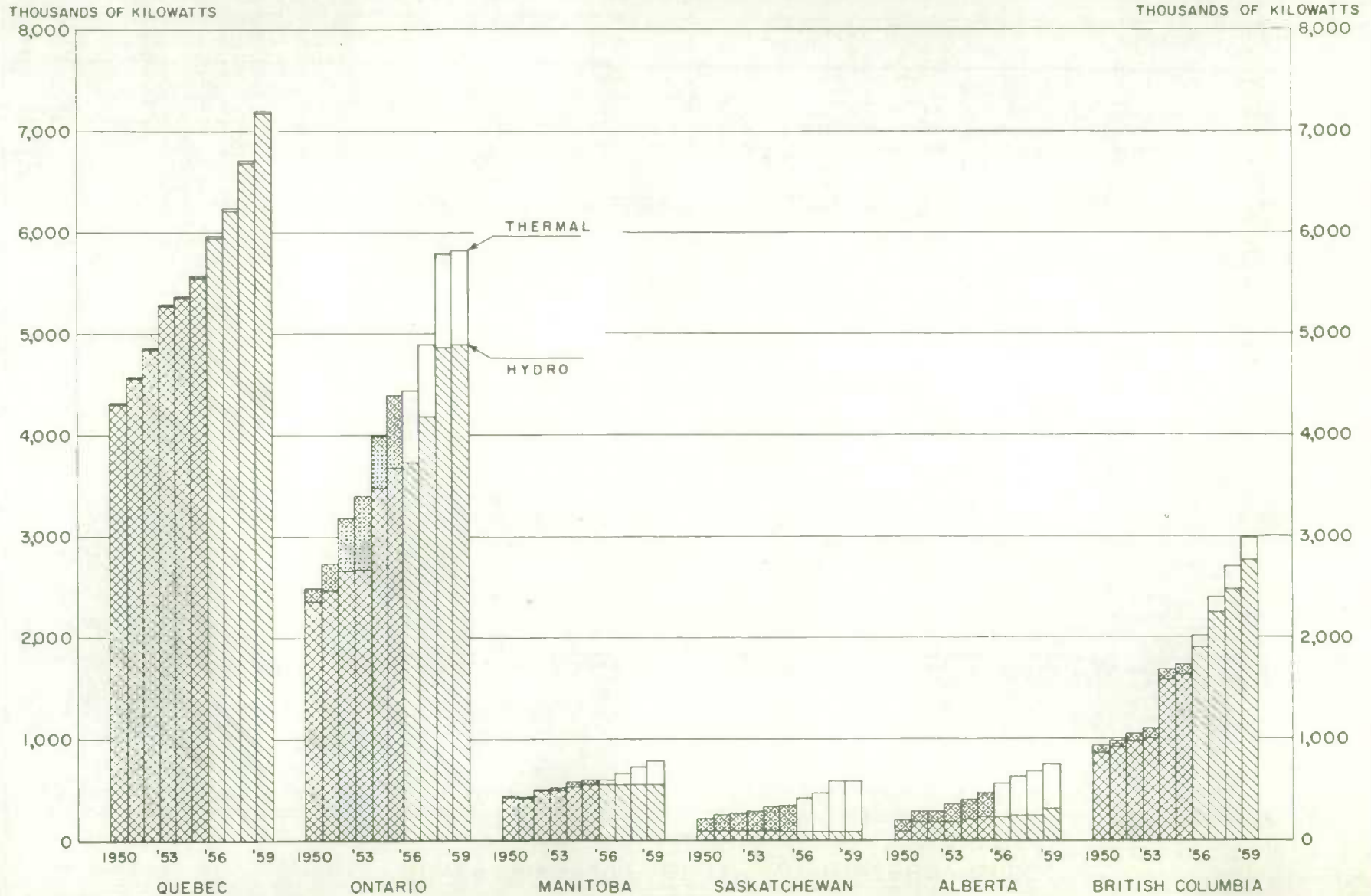
THOUSANDS OF KILOWATTS



Source: Table I, item la plus lb

CHART - B

## NET GENERATING CAPABILITY WITHIN PROVINCES 1950 — 1959

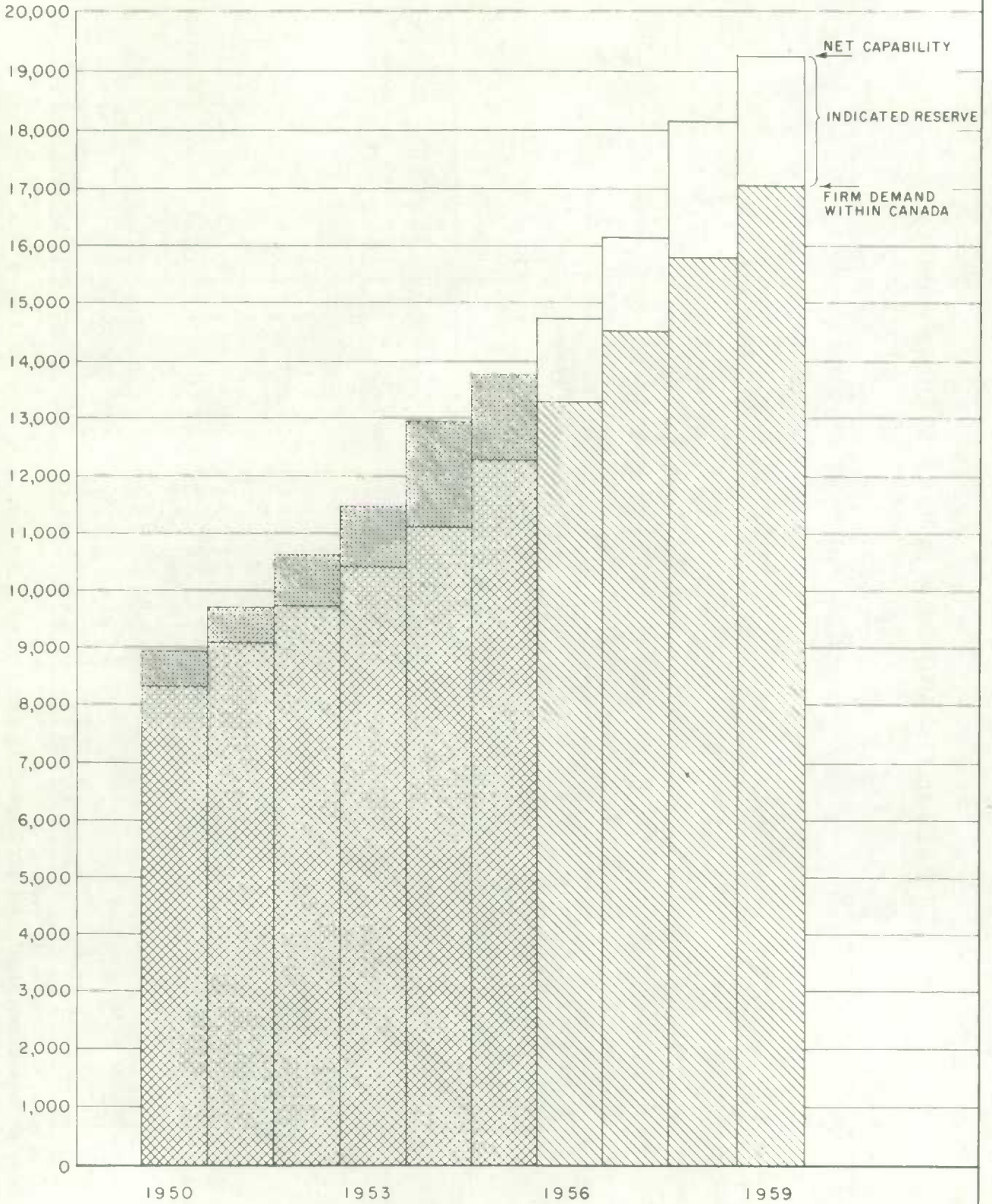


Source: Table I, item 1a plus 1b

CHART - C

### NET CAPABILITY AND FIRM DEMAND WITHIN CANADA 1950 - 1959

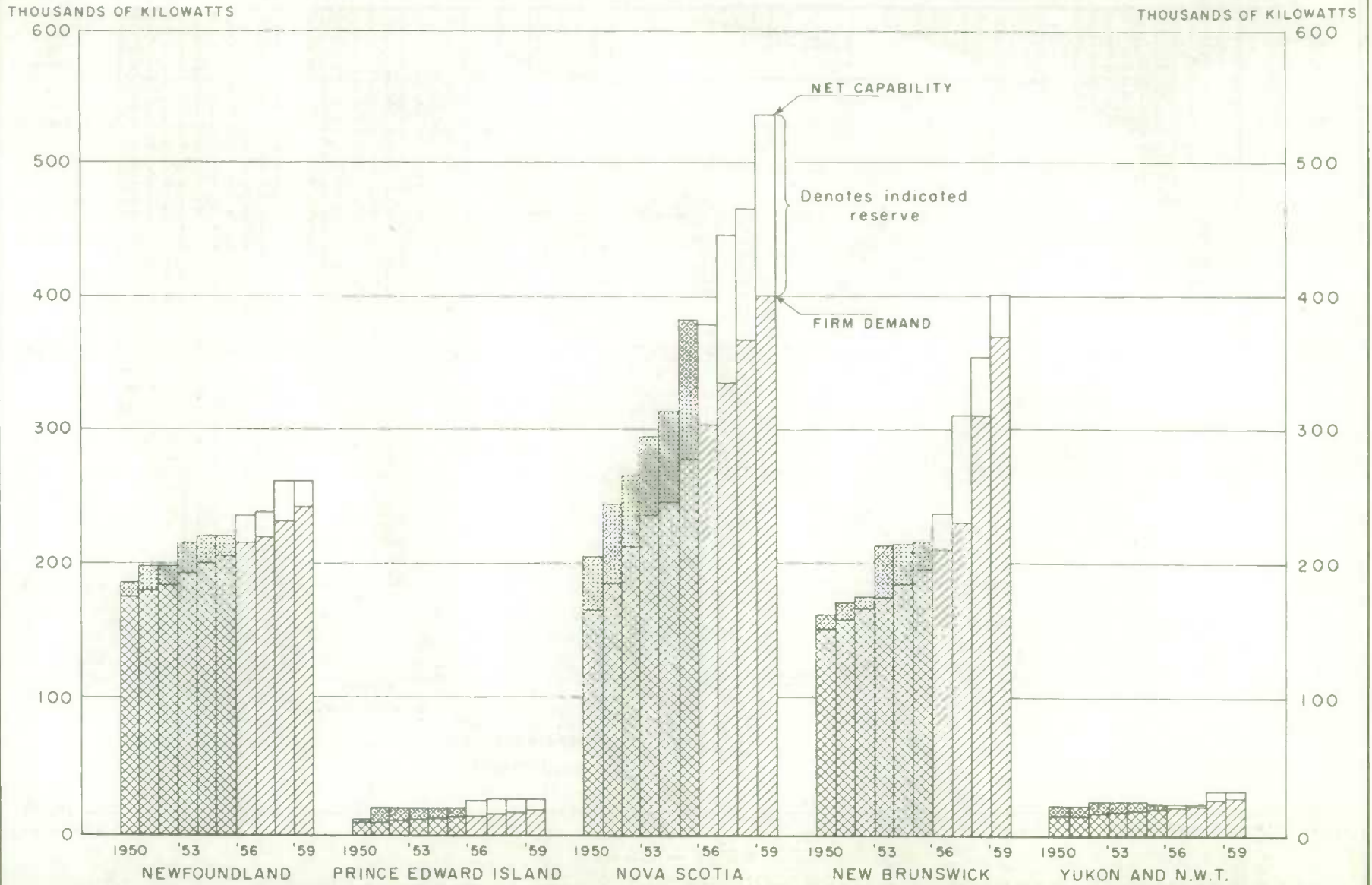
THOUSANDS OF KILOWATTS



Source: Table I, item 4 and Table I, item 7

CHART - D

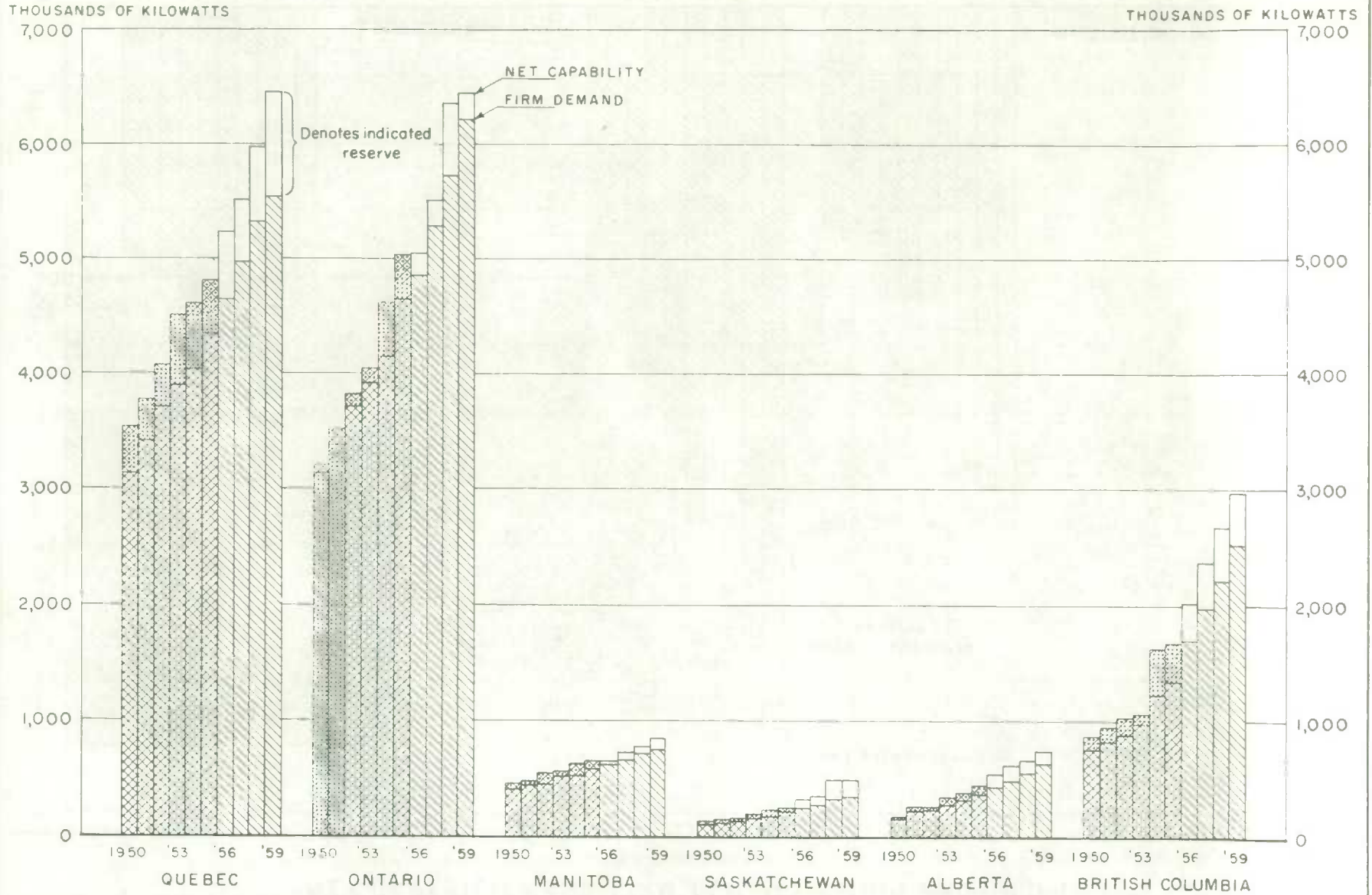
## NET CAPABILITY AND FIRM DEMAND WITHIN PROVINCES 1950 - 1959



Source: Table I, item 4 and Table I, item 7

CHART - D

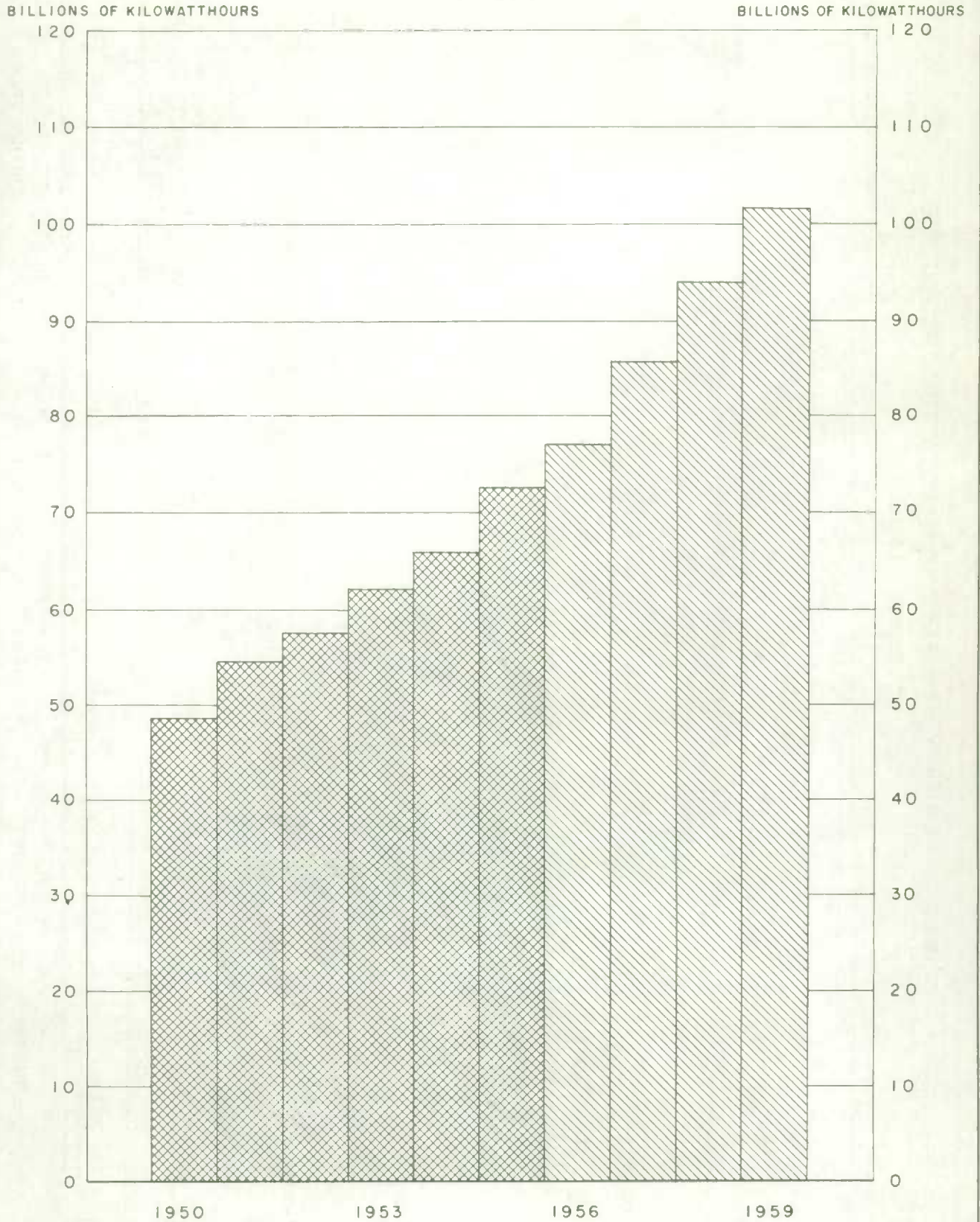
## NET CAPABILITY AND FIRM DEMAND WITHIN PROVINCES 1950 - 1959



Source: Table I, item 4 and Table I, item 7

CHART-E

### FIRM ENERGY REQUIREMENT WITHIN CANADA 1950 - 1959



Source: Table IV



SECOND ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

TABLE I

SUMMARY - NEWFOUNDLAND

Thousands of Kilowatts

	1950	1951	1952	1953	1954	1955	FORECAST			
							1956	1957	1958	1959
<b>CAPABILITY:</b>										
1. Net Generating Capability:										
(a) Hydro	176	188	188	202	207	207	212	214	237	237
(b) Thermal	10	10	10	13	14	14	24	24	24	24
2. Purchases of Firm Power under firm obligation from other utilities:										
(a) In other Provinces	-	-	-	-	-	-	-	-	-	-
(b) Outside Canada	-	-	-	-	-	-	-	-	-	-
3. Deliveries of Firm Power to other utilities:										
(a) In other Provinces	-	-	-	-	-	-	-	-	-	-
(b) Outside Canada	-	-	-	-	-	-	-	-	-	-
4. Net Capability (1 + 2 - 3)	186	198	198	215	221	221	236	238	261	261
	ACTUAL						FORECAST			
<b>FIRM POWER PEAK LOAD:</b>										
5. Within Province	175	180	184	193	199	204	216	220	232	242
6. Indicated Shortage or Rejection	-	-	-	-	1	1	xxx	xxx	xxx	xxx
7. Indicated Demand within Province (5 + 6)	175	180	184	193	200	205	216	220	232	242
<b>INDICATED RESERVE:</b>										
8. Difference (4 - 7)	+ 11	+ 18	+ 14	+ 22	+ 21	+ 16	+ 20	+ 18	+ 29	+ 19
	M I L L I O N S     O F     K I L O W A T T H O U R S									
<b>FIRM ENERGY REQUIREMENT:</b>										
9. Firm Energy Requirement within Province	1,050	1,031	1,147	1,180	1,213	1,277	1,330	1,332	1,425	1,467
10. Indicated Shortage or Rejection	-	-	-	-	9	10	xxx	xxx	xxx	xxx
11. Indicated Firm Energy Requirement within Province (9 + 10)	1,050	1,031	1,147	1,180	1,222	1,287	1,330	1,332	1,425	1,467
12. Deliveries of Firm Energy to other utilities:										
(a) In other Provinces	-	-	-	-	-	-	-	-	-	-
(b) Outside Canada	-	-	-	-	-	-	-	-	-	-
(c) Total (a + b)	-	-	-	-	-	-	-	-	-	-
13. Firm Energy Requirement on the Province (11 + 12)	1,050	1,031	1,147	1,180	1,222	1,287	1,330	1,332	1,425	1,467

SECOND ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

TABLE I  
SUMMARY - PRINCE EDWARD ISLAND

Thousands of Kilowatts

	1950	1951	1952	1953	1954	1955	FORECAST				
							1956	1957	1958	1959	
<b>CAPABILITY:</b>											
1. Net Generating Capability											
(a) Hydro	-	-	-	-	-	-	-	-	-	-	-
(b) Thermal	10	18	18	18	18	18	25	26	26	26	
2. Purchases of Firm Power under firm obligation from other utilities:											
(a) In other Provinces	-	-	-	-	-	-	-	-	-	-	-
(b) Outside Canada	-	-	-	-	-	-	-	-	-	-	-
3. Deliveries of Firm Power to other utilities:											
(a) In other Provinces	-	-	-	-	-	-	-	-	-	-	-
(b) Outside Canada	-	-	-	-	-	-	-	-	-	-	-
4. Net Capability (1 + 2 - 3)	10	18	18	18	18	18	25	26	26	26	
	ACTUAL						FORECAST				
<b>FIRM POWER PEAK LOAD:</b>											
5. Within Province	8	8	9	10	11	12	13	14	15	18	
6. Indicated Shortage or Rejection	-	-	-	-	-	-	xxx	xxx	xxx	xxx	
7. Indicated Demand within Province (5 + 6)	8	8	9	10	11	12	13	14	15	18	
<b>INDICATED RESERVE:</b>											
8. Difference (4 - 7)	+ 2	+ 10	+ 9	+ 8	+ 7	+ 6	+ 12	+ 12	+ 11	+ 8	
	MILLIONS						OF KILOWATTHOURS				
<b>FIRM ENERGY REQUIREMENT:</b>											
9. Firm Energy Requirement within Province	31	34	37	41	46	51	56	63	70	77	
10. Indicated Shortage or Rejection	-	-	-	-	-	-	xxx	xxx	xxx	xxx	
11. Indicated Firm Energy Requirement within Province (9 + 10)	31	34	37	41	46	51	56	63	70	77	
12. Deliveries of Firm Energy to other utilities:											
(a) In other Provinces	-	-	-	-	-	-	-	-	-	-	-
(b) Outside Canada	-	-	-	-	-	-	-	-	-	-	-
(c) Total (a + b)	-	-	-	-	-	-	-	-	-	-	-
13. Firm Energy Requirement on the Province (11 + 12)	31	34	37	41	46	51	56	63	70	77	

SECOND ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

TABLE I

SUMMARY - NOVA SCOTIA

Thousands of Kilowatts

	1950	1951	1952	1953	1954	1955	FORECAST			
							1956	1957	1958	1959
<b>CAPABILITY:</b>										
1. Net Generating Capability:										
(a) Hydro	113	114	117	124	130	136	141	141	161	161
(b) Thermal	94	132	152	174	186	248	240	308	308	379
2. Purchases of Firm Power under firm obligation from other utilities:										
(a) In other Provinces	-	-	-	-	-	-	-	-	-	-
(b) Outside Canada	-	-	-	-	-	-	-	-	-	-
3. Deliveries of Firm Power to other utilities:										
(a) In other Provinces	2	2	2	2	2	2	2	2	2	3
(b) Outside Canada	-	-	-	-	-	-	-	-	-	-
4. Net Capability (1 + 2 - 3)	205	244	267	296	314	382	379	447	467	537
	ACTUAL						FORECAST			
<b>FIRM POWER PEAK LOAD:</b>										
5. Within Province	161	183	211	233	243	278	304	336	368	400
6. Indicated Shortage or Rejection	4	2	2	4	3	-	xxx	xxx	xxx	xxx
7. Indicated Demand within Province (5 + 6)	165	185	213	237	246	278	304	336	368	400
<b>INDICATED RESERVE:</b>										
8. Difference (4 - 7)	+ 40	+ 59	+ 54	+ 59	+ 68	+ 104	+ 75	+ 111	+ 99	+ 137
	MILLIONS OF KILOWATTHOURS									
<b>FIRM ENERGY REQUIREMENT:</b>										
9. Firm Energy Requirement within Province	881	1,017	1,112	1,201	1,267	1,347	1,463	1,593	1,715	1,847
10. Indicated Shortage or Rejection	-	-	-	-	-	-	xxx	xxx	xxx	xxx
11. Indicated Firm Energy Requirement within Province (9 + 10)	881	1,017	1,112	1,201	1,267	1,347	1,463	1,593	1,715	1,847
12. Deliveries of Firm Energy to other utilities:										
(a) In other Provinces	6	6	7	7	7	8	8	9	10	11
(b) Outside Canada	-	-	-	-	-	-	-	-	-	-
(c) Total (a + b)	6	6	7	7	7	8	8	9	10	11
13. Firm Energy Requirement on the Province (11 + 12)	887	1,023	1,119	1,208	1,274	1,355	1,471	1,602	1,725	1,858

SECOND ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

TABLE I  
SUMMARY - NEW BRUNSWICK  
Thousands of Kilowatts

	1950	1951	1952	1953	1954	1955	FORECAST			
							1956	1957	1958	1959
<b>CAPABILITY:</b>										
1. Net Generating Capability:										
(a) Hydro	90	90	92	112	112	112	112	180	180	180
(b) Thermal	76	82	88	106	106	105	126	131	174	218
2. Purchases of Firm Power under firm obligation from other utilities:										
(a) In other Provinces	2	2	2	2	2	4	5	5	5	7
(b) Outside Canada	-	-	-	-	-	-	-	-	-	-
3. Deliveries of Firm Power to other utilities:										
(a) In other Provinces	-	-	-	-	-	-	-	-	-	-
(b) Outside Canada	5	4	7	6	5	5	5	5	4	4
4. Net Capability (1 + 2 - 3)	163	170	175	214	215	216	238	311	355	401
	ACTUAL						FORECAST			
<b>FIRM POWER PEAK LOAD:</b>										
5. Within Province	151	158	167	175	184	196	211	231	311	371
6. Indicated Shortage or Rejection	-	-	-	-	-	1	xxx	xxx	xxx	xxx
7. Indicated Demand within Province (5 + 6)	151	158	167	175	184	197	211	231	311	371
<b>INDICATED RESERVE:</b>										
8. Difference (4 - 7)	+ 12	+ 12	+ 8	+ 39	+ 31	+ 19	+ 27	+ 80	+ 44	+ 30
	MILLIONS OF KILOWATTHOURS									
<b>FIRM ENERGY REQUIREMENT:</b>										
9. Firm Energy Requirement within Province	828	886	883	901	1,043	1,021	1,098	1,192	1,658	2,090
10. Indicated Shortage or Rejection	-	-	-	-	-	-	xxx	xxx	xxx	xxx
11. Indicated Firm Energy Requirement within Province (9 + 10)	828	886	883	901	1,043	1,021	1,098	1,192	1,658	2,090
12. Deliveries of Firm Energy to other utilities:										
(a) In other Provinces	-	-	-	-	-	-	-	-	-	-
(b) Outside Canada	41	41	33	36	59	33	40	40	40	40
(c) Total (a + b)	41	41	33	36	59	33	40	40	40	40
13. Firm Energy Requirement on the Province (11 + 12)	869	927	916	937	1,102	1,054	1,138	1,232	1,698	2,130

SECOND ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

TABLE I

SUMMARY - QUEBEC

Thousands of Kilowatts

	1950	1951	1952	1953	1954	1955	FORECAST			
							1956	1957	1958	1959
<b>CAPABILITY:</b>										
1. Net Generating Capability:										
(a) Hydro	4,295	4,554	4,844	5,268	5,346	5,548	5,940	6,207	6,689	7,174
(b) Thermal	9	9	11	11	12	13	13	15	15	15
2. Purchases of Firm Power under firm obligation from other utilities:										
(a) In other Provinces	1	1	1	1	1	1	1	1	1	1
(b) Outside Canada	-	-	-	-	4	5	-	-	-	-
3. Deliveries of Firm Power to other utilities:										
(a) In other Provinces	711	713	713	713	694	696	656	656	656	657
(b) Outside Canada	56	56	56	56	56	56	56	56	56	56
4. Net Capability (1 + 2 - 3)	3,538	3,795	4,087	4,511	4,613	4,815	5,242	5,511	5,993	6,477
	ACTUAL						FORECAST			
<b>FIRM POWER PEAK LOAD:</b>										
5. Within Province	3,123	3,412	3,702	3,895	4,037	4,309	4,651	4,981	5,338	5,550
6. Indicated Shortage or Rejection	-	-	-	4	-	44	xxx	xxx	xxx	xxx
7. Indicated Demand within Province (5 + 6)	3,123	3,412	3,702	3,899	4,037	4,353	4,651	4,981	5,338	5,550
<b>INDICATED RESERVE:</b>										
8. Difference (4 - 7)	+ 415	+ 383	+ 385	+ 612	+ 576	+ 462	+ 591	+ 530	+ 655	+ 927
	M I L L I O N S      O F      K I L O W A T T H O U R S									
<b>FIRM ENERGY REQUIREMENT:</b>										
9. Firm Energy Requirement within Province	20,155	22,905	24,197	26,439	27,676	29,196	29,527	32,665	35,144	36,725
10. Indicated Shortage or Rejection	123	215	37	1	1	362	xxx	xxx	xxx	xxx
11. Indicated Firm Energy Requirement within Province (9 + 10)	20,278	23,120	24,234	26,440	27,677	29,558	29,527	32,665	35,144	36,725
12. Deliveries of Firm Energy to other utilities:										
(a) In other Provinces	4,287	4,288	4,304	4,272	4,155	4,049	3,949	4,019	4,026	4,028
(b) Outside Canada	820	834	821	825	848	490	500	500	500	500
(c) Total (a + b)	5,107	5,122	5,125	5,097	5,003	4,539	4,449	4,519	4,526	4,528
13. Firm Energy Requirement on the Province (11 + 12)	25,385	28,242	29,359	31,537	32,680	34,097	33,976	37,184	39,670	41,253

SECOND ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

TABLE I

SUMMARY - ONTARIO

Thousands of Kilowatts

	1950	1951	1952	1953	1954	1955	FORECAST				
							1956	1957	1958	1959	
<b>CAPABILITY:</b>											
1. Net Generating Capability:											
(a) Hydro	2,349	2,458	2,654	2,666	3,463	3,669	3,724	4,176	4,855	4,888	
(b) Thermal	127	276	518	726	524	717	712	711	928	928	
2. Purchases of Firm Power under firm obligation from other utilities:											
(a) In other Provinces	720	722	722	722	707	708	667	667	653	653	
(b) Outside Canada	21	22	23	24	25	33	36	38	39	44	
3. Deliveries of Firm Power to other utilities:											
(a) In other Provinces	1	1	1	1	1	1	1	1	1	1	
(b) Outside Canada	85	85	85	85	85	85	85	85	85	40	
4. Net Capability (1 + 2 - 3)	3,131	3,392	3,831	4,052	4,633	5,041	5,053	5,506	6,389	6,472	
	ACTUAL						FORECAST				
<b>FIRM POWER PEAK LOAD:</b>											
5. Within Province	2,988	3,202	3,713	3,868	4,160	4,655	4,884	5,297	5,726	6,231	
6. Indicated Shortage or Rejection	213	319	1	60	-	18	xxx	xxx	xxx	xxx	
7. Indicated Demand within Province (5 + 6)	3,201	3,521	3,714	3,928	4,160	4,673	4,884	5,297	5,726	6,231	
<b>INDICATED RESERVE:</b>											
8. Difference (4 - 7)	- 70	- 129	+ 117	+ 124	+ 473	+ 368	+ 169	+ 209	+ 663	+ 241	
	MILLIONS OF KILOWATTHOURS										
<b>FIRM ENERGY REQUIREMENT:</b>											
9. Firm Energy Requirement within Province	17,274	19,681	20,916	22,211	23,184	25,589	27,240	29,614	32,102	34,860	
10. Indicated Shortage or Rejection	255	97	9	2	1	6	xxx	xxx	xxx	xxx	
11. Indicated Firm Energy Requirement within Province (9 + 10)	17,529	19,778	20,925	22,213	23,185	25,595	27,240	29,614	32,102	34,860	
12. Deliveries of Firm Energy to other utilities:											
(a) In other Provinces	2	3	3	3	3	3	4	4	4	4	
(b) Outside Canada	703	703	690	668	624	687	690	689	689	502	
(c) Total (a + b)	705	706	693	671	627	690	694	693	693	506	
13. Firm Energy Requirement on the Province (11 + 12)	18,234	20,484	21,618	22,884	23,812	26,285	27,934	30,307	32,795	35,366	

SECOND ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

TABLE I

SUMMARY - MANITOBA

Thousands of Kilowatts

	1950	1951	1952	1953	1954	1955	FORECAST			
							1956	1957	1958	1959
<b>CAPABILITY:</b>										
1. Net Generating Capability:										
(a) Hydro	418	413	487	487	522	547	547	547	547	547
(b) Thermal	10	10	10	23	46	46	46	106	166	226
2. Purchases of Firm Power under firm obligation from other utilities:										
(a) In other Provinces	68	77	79	79	80	79	80	80	80	80
(b) Outside Canada	-	-	-	-	-	-	-	-	-	-
3. Deliveries of Firm Power to other utilities:										
(a) In other Provinces	9	9	9	9	13	14	14	14	-	-
(b) Outside Canada	-	-	-	-	-	-	-	-	-	-
4. Net Capability (1 + 2 - 3)	487	491	567	580	635	658	659	719	793	853
	ACTUAL						FORECAST			
<b>FIRM POWER PEAK-LOAD:</b>										
5. Within Province	419	454	460	512	533	594	629	663	708	740
6. Indicated Shortage or Rejection	-	-	-	-	-	-	xxx	xxx	xxx	xxx
7. Indicated Demand within Province (5 + 6)	419	454	460	512	533	594	629	663	708	740
<b>INDICATED RESERVE:</b>										
8. Difference (4 - 7)	+ 68	+ 37	+ 107	+ 68	+ 102	+ 64	+ 30	+ 56	+ 85	+ 113
	MILLIONS OF KILOWATTHOURS									
<b>FIRM ENERGY REQUIREMENT:</b>										
9. Firm Energy Requirement within Province	2,216	2,427	2,526	2,670	2,852	3,086	3,271	3,471	3,681	4,021
10. Indicated Shortage or Rejection	-	-	-	-	-	-	xxx	xxx	xxx	xxx
11. Indicated Firm Energy Requirement within Province (9 + 10)	2,216	2,427	2,526	2,670	2,852	3,086	3,271	3,471	3,681	4,021
12. Deliveries of Firm Energy to other utilities:										
(a) In other Provinces	79	79	79	79	114	114	114	114	114	-
(b) Outside Canada	-	-	-	-	-	-	-	-	-	-
(c) Total (a + b)	79	79	79	79	114	114	114	114	114	-
13. Firm Energy Requirement on the Province (11 + 12)	2,295	2,506	2,605	2,749	2,966	3,200	3,385	3,585	3,795	4,021

SECOND ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

TABLE I

SUMMARY - SASKATCHEWAN

Thousands of Kilowatts

	1950	1951	1952	1953	1954	1955	FORECAST			
							1956	1957	1958	1959
<b>CAPABILITY:</b>										
1. Net Generating Capability:										
(a) Hydro	85	85	85	85	85	82	82	82	82	82
(b) Thermal	125	157	168	193	239	253	323	373	497	497
2. Purchases of Firm Power under firm obligation from other utilities										
(a) In other Provinces	-	-	-	-	-	-	-	-	-	-
(b) Outside Canada	-	-	-	-	-	-	-	-	-	-
3. Deliveries of Firm Power to other utilities:										
(a) In other Provinces	68	77	79	79	80	79	80	80	80	80
(b) Outside Canada	-	-	-	-	-	-	-	-	-	-
Net Capability ( 1 + 2 - 3)	142	165	174	199	244	256	325	375	499	499
	ACTUAL						FORECAST			
<b>FIRM POWER PEAK LOAD:</b>										
5. Within Province	107	116	134	159	187	220	250	282	317	353
6. Indicated Shortage or Rejection	-	-	-	-	-	-	xxx	xxx	xxx	xxx
7. Indicated Demand within Province (5 + 6)	107	116	134	159	187	220	250	282	317	353
<b>INDICATED RESERVE:</b>										
8. Difference (4 - 7)	+ 35	+ 49	+ 40	+ 40	+ 57	+ 36	+ 75	+ 93	+ 182	+ 146
	MILLIONS OF KILOWATTHOURS									
<b>FIRM ENERGY REQUIREMENT:</b>										
9. Firm Energy Requirement within Province	405	467	550	629	742	877	1,024	1,178	1,340	1,467
10. Indicated Shortage or Rejection	-	-	-	-	-	-	xxx	xxx	xxx	xxx
11. Indicated Firm Energy Requirement within Province (9 + 10)	405	467	550	629	742	877	1,024	1,178	1,340	1,467
12. Deliveries of Firm Energy to other utilities:										
(a) In other Provinces	500	515	542	559	558	571	571	571	571	571
(b) Outside Canada	-	-	-	-	-	-	-	-	-	-
(c) Total (a + b)	500	515	542	559	558	571	571	571	571	571
13. Firm Energy Requirement on the Province (11 + 12)	905	982	1,092	1,188	1,300	1,448	1,595	1,749	1,911	2,038



SECOND ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

TABLE I

SUMMARY - ALBERTA

Thousands of Kilowatts

	1950	1951	1952	1953	1954	1955	FORECAST			
							1956	1957	1958	1959
<b>CAPABILITY:</b>										
1. Net Generating Capability:										
(a) Hydro	83	162	162	162	202	220	220	237	237	304
(b) Thermal	108	109	119	187	193	236	332	380	436	436
2. Purchases of Firm Power under firm obligation from other utilities:										
(a) In other Provinces	-	-	-	-	4	-	-	3	2	1
(b) Outside Canada	-	-	-	-	-	-	-	-	-	-
3. Deliveries of Firm Power to other utilities:										
(a) In other Provinces	3	5	7	8	-	3	7	-	-	-
(b) Outside Canada	-	-	-	-	-	-	-	-	-	-
4. Net Capability (1 + 2 - 3)	188	266	274	341	399	453	545	620	675	741
	ACTUAL						FORECAST			
<b>FIRM POWER PEAK LOAD:</b>										
5. Within Province	176	220	233	284	310	389	436	493	555	630
6. Indicated Shortage or Rejection	-	-	-	-	-	-	xxx	xxx	xxx	xxx
7. Indicated Demand within Province (5 + 6)	176	220	233	284	310	389	436	493	555	630
<b>INDICATED RESERVE:</b>										
8. Difference (4 - 7)	+ 12	+ 46	+ 41	+ 57	+ 89	+ 64	+ 109	+ 127	+ 120	+ 111
	MILLIONS OF KILOWATTHOURS									
<b>FIRM ENERGY REQUIREMENT:</b>										
9. Firm Energy Requirement within Province	1,023	1,114	1,167	1,372	1,571	1,838	2,030	2,277	2,552	2,869
10. Indicated Shortage or Rejection	-	-	-	-	-	-	xxx	xxx	xxx	xxx
11. Indicated Firm Energy Requirement within Province (9 + 10)	1,023	1,114	1,167	1,372	1,571	1,838	2,030	2,277	2,552	2,869
12. Deliveries of Firm Energy to other utilities:										
(a) In other Provinces	14	20	30	6	-	-	2	-	-	-
(b) Outside Canada	-	-	-	-	-	-	-	-	-	-
(c) Total (a + b)	14	20	30	6	-	-	2	-	-	-
13. Firm Energy Requirement on the Province (11 + 12)	1,037	1,134	1,197	1,378	1,571	1,838	2,032	2,277	2,552	2,869

SECOND ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

TABLE I  
SUMMARY - BRITISH COLUMBIA  
Thousands of Kilowatts

	1950	1951	1952	1953	1954	1955	FORECAST			
							1956	1957	1958	1959
<b>CAPABILITY:</b>										
1. Net Generating Capability:										
(a) Hydro	850	905	966	999	1,574	1,610	1,895	2,239	2,466	2,752
(b) Thermal	72	74	80	96	98	102	111	155	229	232
2. Purchases of Firm Power under firm obligation from other utilities:										
(a) In other Provinces	3	5	7	8	-	3	7	-	-	-
(b) Outside Canada	-	-	-	-	-	-	-	-	-	-
3. Deliveries of Firm Power to other utilities:										
(a) In other Provinces	-	-	-	-	4	-	-	3	2	1
(b) Outside Canada	30	30	30	30	30	20	-	-	-	-
4. Net Capability (1 + 2 - 3)	895	954	1,023	1,073	1,638	1,695	2,013	2,391	2,693	2,983
	ACTUAL						FORECAST			
<b>FIRM POWER PEAK LOAD:</b>										
5. Within Province	773	825	895	974	1,239	1,351	1,702	1,991	2,219	2,523
6. Indicated Shortage or Rejection	-	-	-	12	-	-	xxx	xxx	xxx	xxx
7. Indicated Demand within Province (5 + 6)	773	825	895	986	1,239	1,351	1,702	1,991	2,219	2,523
<b>INDICATED RESERVE:</b>										
8. Difference (4 - 7)	+ 122	+ 129	+ 128	+ 87	+ 399	+ 344	+ 311	+ 400	+ 474	+ 460
	MILLIONS OF KILOWATTHOURS									
<b>FIRM ENERGY REQUIREMENT:</b>										
9. Firm Energy Requirement within Province	4,437	4,651	4,889	5,358	6,284	7,877	9,813	12,169	14,163	15,958
10. Indicated Shortage or Rejection	-	-	-	-	-	-	xxx	xxx	xxx	xxx
11. Indicated Firm Energy Requirement within Province (9 + 10)	4,437	4,651	4,889	5,358	6,284	7,877	9,813	12,169	14,163	15,958
12. Deliveries of Firm Energy to other utilities:										
(a) In other Provinces	-	-	-	-	10	10	10	10	11	11
(b) Outside Canada	184	184	184	184	184	122	-	-	-	-
(c) Total (a + b)	184	184	184	184	194	132	10	10	11	11
13. Firm Energy Requirement on the Province (11 + 12)	4,621	4,835	5,073	5,542	6,478	8,009	9,823	12,179	14,174	15,969

SECOND ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

TABLE I

SUMMARY - YUKON & NORTH WEST TERRITORIES

Thousands of Kilowatts

	1950	1951	1952	1953	1954	1955	FORECAST			
							1956	1957	1958	1959
<u>CAPABILITY:</u>										
1. Net Generating Capability:										
(a) Hydro	21	21	24	24	24	22	22	22	33	33
(b) Thermal	-	-	-	-	-	-	-	-	-	-
2. Purchases of Firm Power under firm obligation from other utilities:										
(a) In other Provinces	-	-	-	-	-	-	-	-	-	-
(b) Outside Canada	-	-	-	-	-	-	-	-	-	-
3. Deliveries of Firm Power to other utilities:										
(a) In other Provinces	-	-	-	-	-	-	-	-	-	-
(b) Outside Canada	-	-	-	-	-	-	-	-	-	-
4. Net Capability (1 + 2 - 3)	21	21	24	24	24	22	22	22	33	33
	ACTUAL						FORECAST			
<u>FIRM POWER PEAK LOAD:</u>										
5. Within Province	14	14	16	17	18	19	20	21	26	28
6. Indicated Shortage or Rejection	-	-	-	-	-	-	xxx	xxx	xxx	xxx
7. Indicated Demand within Province (5 + 6)	14	14	16	17	18	19	20	21	26	28
<u>INDICATED RESERVE:</u>										
8. Difference (4 - 7)	+ 7	+ 7	+ 8	+ 7	+ 6	+ 3	+ 2	+ 1	+ 7	+ 5
	MILLIONS OF KILOWATTHOURS									
<u>FIRM ENERGY REQUIREMENT:</u>										
9. Firm Energy Requirement within Province	67	64	66	83	89	96	99	99	120	127
10. Indicated Shortage or Rejection	-	-	-	-	-	-	xxx	xxx	xxx	xxx
11. Indicated Firm Energy Requirement within Province (9 + 10)	67	64	66	83	89	96	99	99	120	127
12. Deliveries of Firm Energy to other utilities:										
(a) In other Provinces	-	-	-	-	-	-	-	-	-	-
(b) Outside Canada	-	-	-	-	-	-	-	-	-	-
(c) Total (a + b)	-	-	-	-	-	-	-	-	-	-
13. Firm Energy Requirement on the Province (11 + 12)	67	64	66	83	89	96	99	99	120	127

SECOND ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

TABLE I

SUMMARY - CANADA

Thousands of Kilowatts

	1950	1951	1952	1953	1954	1955	FORECAST			
							1956	1957	1958	1959
<b>CAPABILITY:</b>										
1. Net Generating Capability:										
(a) Hydro	8,480	8,990	9,619	10,129	11,665	12,153	12,895	14,045	15,487	16,358
(b) Thermal	641	877	1,174	1,547	1,436	1,752	1,952	2,229	2,803	2,981
2. Purchases of Firm Power under firm obligation from other utilities:										
(a) In other Provinces	-	-	-	-	-	-	-	-	-	-
(b) Outside Canada	21	22	23	24	29	38	36	38	39	44
3. Deliveries of Firm Power to other utilities:										
(a) In other Provinces	-	-	-	-	-	-	-	-	-	-
(b) Outside Canada	176	175	178	177	176	166	146	146	145	100
4. Net Capability (1 + 2 - 3)	8,966	9,714	10,638	11,523	12,954	13,777	14,737	16,166	18,184	19,283
	ACTUAL						FORECAST			
<b>FIRM POWER PEAK LOAD:</b>										
5. Within Canada	8,095	8,772	9,724	10,320	11,121	12,227	13,316	14,529	15,815	17,086
6. Indicated Shortage or Rejection	217	321	3	80	4	64	xxx	xxx	xxx	xxx
7. Indicated Demand within Canada (5 + 6)	8,312	9,093	9,727	10,400	11,125	12,291	13,316	14,529	15,815	17,086
<b>INDICATED RESERVE:</b>										
8. Difference (4 - 7)	+ 654	+ 621	+ 911	+ 1,123	+ 1,829	+ 1,486	+ 1,421	+ 1,637	+ 2,369	+ 2,197
	MILLIONS OF KILOWATTHOURS									
<b>FIRM ENERGY REQUIREMENT:</b>										
9. Firm Energy Requirement within Canada	48,367	54,277	57,490	62,085	65,967	72,255	76,951	85,653	93,970	101,508
10. Indicated Shortage or Rejection	378	312	46	3	11	378	xxx	xxx	xxx	xxx
11. Indicated Firm Energy Requirement within Canada (9 + 10)	48,745	54,589	57,536	62,088	65,978	72,633	76,951	85,653	93,970	101,508
12. Deliveries of Firm Energy to other utilities:										
(a) In other Provinces	-	-	-	-	-	-	-	-	-	-
(b) Outside Canada	1,748	1,762	1,728	1,713	1,715	1,332	1,230	1,229	1,229	1,042
(c) Total (a + b)	1,748	1,762	1,728	1,713	1,715	1,332	1,230	1,229	1,229	1,042
13. Firm Energy Requirement on Canada (11 + 12)	50,493	56,351	59,264	63,801	67,693	73,965	78,181	86,882	95,199	102,550

SECOND ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

TABLE II

NET GENERATING CAPABILITY WITHIN PROVINCES\*

Thousands of Kilowatts

P R O V I N C E							F O R E C A S T				P E R C E N T A G E C H A N G E		
	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1951-1955	1955-1959	1951-1959
Newfoundland	186	198	198	215	221	221	236	238	261	261	11.6	18.1	31.8
Prince Edward Island	10	18	18	18	18	18	25	26	26	26	0.0	44.4	44.4
Nova Scotia	207	246	269	298	316	384	381	449	469	540	56.1	40.6	119.5
New Brunswick	166	172	180	218	218	217	238	311	354	398	26.2	83.4	131.4
Quebec	4,304	4,563	4,855	5,279	5,358	5,561	5,953	6,222	6,704	7,189	21.9	29.3	57.5
Ontario	2,476	2,734	3,172	3,392	3,987	4,386	4,436	4,887	5,783	5,816	60.4	32.6	112.7
Manitoba	428	423	497	510	568	593	593	653	713	773	40.2	30.4	82.7
Saskatchewan	210	242	253	278	324	335	405	455	579	579	38.4	72.8	139.3
Alberta	191	271	281	349	395	456	552	617	673	740	68.3	62.3	173.1
British Columbia	922	979	1,046	1,095	1,672	1,712	2,006	2,394	2,695	2,984	74.9	74.3	204.8
Yukon and N. W. T.	21	21	24	24	24	22	22	22	33	33	4.8	50.0	57.1
Canada	9,121	9,867	10,793	11,676	13,101	13,905	14,847	16,274	18,290	19,339	40.9	39.1	96.0

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

SECOND ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

TABLE III

FIRM POWER PEAK LOAD WITHIN PROVINCES\*

Thousands of Kilowatts

P R O V I N C E	1950	1951	1952	1953	1954	1955	F O R E C A S T				P E R C E N T A G E C H A N G E		
							1956	1957	1958	1959	1951- 1955	1955- 1959	1951- 1959
Newfoundland	175	180	184	193	200	205	216	220	232	242	13.9	18.0	34.4
Prince Edward Island	8	8	9	10	11	12	13	14	15	18	50.0	50.0	125.0
Nova Scotia	165	185	213	237	246	278	304	336	368	400	50.3	43.9	116.2
New Brunswick	151	158	167	175	184	197	211	231	311	371	24.7	88.3	134.8
Quebec	3,123	3,412	3,702	3,899	4,037	4,353	4,651	4,981	5,338	5,550	27.6	27.5	62.7
Ontario	3,201	3,521	3,714	3,928	4,160	4,673	4,884	5,297	5,726	6,231	32.7	33.3	77.0
Manitoba	419	454	460	512	533	594	629	663	708	740	30.8	24.6	63.0
Saskatchewan	107	116	134	159	187	220	250	282	317	353	89.7	60.5	204.3
Alberta	176	220	233	284	310	389	436	493	555	630	76.8	62.0	186.4
British Columbia	773	825	895	986	1,239	1,351	1,702	1,991	2,219	2,523	63.8	86.8	205.8
Yukon and N. W. T.	14	14	16	17	18	19	20	21	26	28	35.7	47.4	100.0
<b>Canada</b>	<b>8,312</b>	<b>9,093</b>	<b>9,727</b>	<b>10,400</b>	<b>11,125</b>	<b>12,291</b>	<b>13,316</b>	<b>14,529</b>	<b>15,815</b>	<b>17,086</b>	<b>35.2</b>	<b>39.0</b>	<b>87.9</b>

\* Indicated Firm Demand (Table 1, item 7)

SECOND ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

TABLE IV  
FIRM ENERGY REQUIREMENT WITHIN PROVINCES\*

Millions of Kilowatt Hours

P R O V I N C E	A C T U A L						F O R E C A S T				P E R C E N T A G E C H A N G E		
	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1951- 1955	1955- 1959	1951- 1959
Newfoundland	1,050	1,031	1,147	1,180	1,222	1,287	1,330	1,332	1,425	1,467	24.8	14.0	42.3
Prince Edward Island	31	34	37	41	46	51	56	63	70	77	50.0	51.0	126.5
Nova Scotia	881	1,017	1,112	1,201	1,267	1,347	1,463	1,593	1,715	1,847	32.4	37.1	81.6
New Brunswick	828	886	883	901	1,043	1,021	1,098	1,192	1,658	2,090	15.2	104.7	135.9
Quebec	20,278	23,120	24,234	26,440	27,677	29,558	29,527	32,665	35,144	36,725	27.8	24.2	58.8
Ontario	17,529	19,778	20,925	22,213	23,185	25,595	27,240	29,614	32,102	34,860	29.4	36.2	76.3
Manitoba	2,216	2,427	2,526	2,670	2,852	3,086	3,271	3,471	3,681	4,021	27.2	30.3	65.7
Saskatchewan	405	467	550	629	742	877	1,024	1,178	1,340	1,467	87.8	67.3	214.1
Alberta	1,023	1,114	1,167	1,372	1,571	1,838	2,030	2,277	2,552	2,869	65.0	56.1	157.5
British Columbia	4,437	4,651	4,889	5,358	6,284	7,877	9,813	12,169	14,163	15,958	69.4	102.6	243.1
Yukon and N. W. T.	67	64	66	83	89	96	99	99	120	127	50.0	32.3	98.4
Canada	48,745	54,589	57,536	62,088	65,978	72,633	76,951	85,653	93,970	101,508	33.1	39.8	85.9

\* Table I, item 11

SECOND ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

TABLE V

INDICATED RESERVE\*

Thousands of Kilowatts

							FORECAST				PERCENTAGE CHANGE		
	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1951-1955	1955-1959	1951-1959
<u>Newfoundland</u>													
1. Gross Capability	186	198	198	215	221	221	236	238	261	261	11.6	18.1	31.8
2. Total Firm Demand on the Province	175	180	184	193	200	205	216	220	232	242	13.9	18.0	34.4
3. Indicated Reserve (1 - 2)	11	18	14	22	21	16	20	18	29	19	xxx	xxx	xxx
4. Indicated Reserve expressed as a % of Total Firm Demand	6.3	10.0	7.6	11.4	10.5	7.8	9.3	8.2	12.5	7.9	xxx	xxx	xxx
<u>Prince Edward Island</u>													
1. Gross Capability	10	18	18	18	18	18	25	26	26	26	0.0	44.4	44.4
2. Total Firm Demand on the Province	8	8	9	10	11	12	13	14	15	18	50.0	50.0	125.0
3. Indicated Reserve (1 - 2)	2	10	9	8	7	6	12	12	11	8	xxx	xxx	xxx
4. Indicated Reserve expressed as a % of Total Firm Demand	25.0	125.0	100.0	80.0	63.6	50.0	92.3	85.7	73.3	44.4	xxx	xxx	xxx
<u>Nova Scotia</u>													
1. Gross Capability	207	246	269	298	316	384	381	449	469	540	56.1	40.6	119.5
2. Total Firm Demand on the Province	167	187	215	239	248	280	306	338	370	403	49.7	43.9	115.5
3. Indicated Reserve (1 - 2)	40	59	54	59	68	104	75	111	99	137	xxx	xxx	xxx
4. Indicated Reserve expressed as a % of Total Firm Demand	24.0	31.6	25.1	24.7	27.4	37.1	24.5	32.8	26.8	34.0	xxx	xxx	xxx
<u>New Brunswick</u>													
1. Gross Capability	168	174	182	220	220	221	243	316	359	405	27.0	83.3	132.8
2. Total Firm Demand on the Province	156	162	174	181	189	202	216	236	315	375	24.7	85.6	131.5
3. Indicated Reserve (1 - 2)	12	12	8	39	31	19	27	80	44	30	xxx	xxx	xxx
4. Indicated Reserve expressed as a % of Total Firm Demand	7.7	7.4	4.6	21.5	16.4	9.4	12.5	33.9	14.0	8.0	xxx	xxx	xxx

\* Gross Capability (Table I, item 1 + 2) Less Total Firm Demand on the Provinces (Table I, item 7 + 3)



SECOND ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

TABLE V

INDICATED RESERVE\*

Thousands of Kilowatts

							FORECAST				PERCENTAGE CHANGE		
	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1951-1955	1955-1959	1951-1959
<u>Quebec</u>													
1. Gross Capability	4,305	4,564	4,856	5,280	5,363	5,567	5,954	6,223	6,705	7,190	22.0	29.2	57.5
2. Total Firm Demand on the Province	3,890	4,181	4,471	4,668	4,787	5,105	5,363	5,693	6,050	6,263	22.1	22.7	49.8
3. Indicated Reserve (1 - 2)	415	383	385	612	576	462	591	530	655	927	xxx	xxx	xxx
4. Indicated Reserve expressed as a % of Total Firm Demand	10.7	9.2	8.6	13.1	12.0	9.0	11.0	9.3	10.8	14.8	xxx	xxx	xxx
<u>Ontario</u>													
1. Gross Capability	3,217	3,478	3,917	4,138	4,719	5,127	5,139	5,592	6,475	6,513	47.4	27.0	87.3
2. Total Firm Demand on the Province	3,287	3,607	3,800	4,014	4,246	4,759	4,970	5,383	5,812	6,272	31.9	31.8	73.9
3. Indicated Reserve (1 - 2)	- 70	- 129	117	124	473	368	169	209	663	241	xxx	xxx	xxx
4. Indicated Reserve expressed as a % of Total Firm Demand	-	-	3.1	3.1	11.1	7.7	3.4	3.9	11.4	3.8	xxx	xxx	xxx
<u>Manitoba</u>													
1. Gross Capability	496	500	576	589	648	672	673	733	793	853	34.4	26.9	70.6
2. Total Firm Demand on the Province	428	463	469	521	546	608	643	677	708	740	31.3	21.7	59.8
3. Indicated Reserve (1 - 2)	68	37	107	68	102	64	30	56	85	113	xxx	xxx	xxx
4. Indicated Reserve expressed as a % of Total Firm Demand	15.9	8.0	22.8	13.1	18.7	10.5	4.7	8.3	12.0	15.3	xxx	xxx	xxx
<u>Saskatchewan</u>													
1. Gross Capability	210	242	253	278	324	335	405	455	579	579	38.4	72.8	139.3
2. Total Firm Demand on the Province	175	193	213	238	267	299	330	362	397	433	54.9	44.8	124.4
3. Indicated Reserve (1 - 2)	35	49	40	40	57	36	75	93	182	146	xxx	xxx	xxx
4. Indicated Reserve expressed as a % of Total Firm Demand	20.0	25.4	18.8	16.8	21.3	12.0	22.7	25.7	45.8	33.7	xxx	xxx	xxx

\* Gross Capability (Table I, item 1 + 2) Less Total Firm Demand on the Provinces (Table I, item 7 + 3)

SECOND ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

TABLE V

INDICATED RESERVE\*

Thousands of Kilowatts

							FORECAST				PERCENTAGE CHANGE		
	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1951- 1955	1955- 1959	1951- 1959
<u>Alberta</u>													
1. Gross Capability	191	271	281	349	399	456	552	620	675	741	68.3	62.5	173.4
2. Total Firm Demand on the Province	179	225	240	292	310	392	443	493	555	630	74.2	60.7	180.0
3. Indicated Reserve (1 - 2)	12	46	41	57	89	64	109	127	120	111	xxx	xxx	xxx
4. Indicated Reserve expressed as a % of Total Firm Demand	6.7	20.4	17.1	19.5	28.7	16.3	24.6	25.8	21.6	17.6	xxx	xxx	xxx
<u>British Columbia</u>													
1. Gross Capability	925	984	1,053	1,103	1,672	1,715	2,013	2,394	2,695	2,984	74.3	74.0	203.3
2. Total Firm Demand on the Province	803	855	925	1,016	1,273	1,371	1,702	1,994	2,221	2,524	60.4	84.1	195.2
3. Indicated Reserve (1 - 2)	122	129	128	87	399	344	311	400	474	460	xxx	xxx	xxx
4. Indicated Reserve expressed as a % of Total Firm Demand	15.2	15.1	13.8	8.6	31.3	25.1	18.3	20.1	21.3	18.2	xxx	xxx	xxx
<u>Yukon and N. W. T.</u>													
1. Gross Capability	21	21	24	24	24	22	22	22	33	33	4.8	50.0	57.1
2. Total Firm Demand on the Province	14	14	16	17	18	19	20	21	26	28	35.7	47.4	100.0
3. Indicated Reserve (1 - 2)	7	7	8	7	6	3	2	1	7	5	xxx	xxx	xxx
4. Indicated Reserve expressed as a % of Total Firm Demand	50.0	50.0	50.0	41.2	33.3	15.8	10.0	4.8	26.9	17.9	xxx	xxx	xxx
<u>Canada</u>													
1. Gross Capability	9,142	9,889	10,816	11,700	13,130	13,943	14,883	16,312	18,329	19,383	41.0	39.0	96.0
2. Total Firm Demand on Canada	8,488	9,268	9,905	10,577	11,301	12,457	13,462	14,675	15,960	17,186	34.4	38.0	85.4
3. Indicated Reserve (1 - 2)	654	621	911	1,123	1,829	1,486	1,421	1,637	2,369	2,197	xxx	xxx	xxx
4. Indicated Reserve expressed as a % of Total Firm Demand	7.7	6.7	9.2	10.6	16.2	11.9	10.6	11.2	14.8	12.8	xxx	xxx	xxx

\* Gross Capability (Table I, item 1 + 2) Less Total Firm Demand on the Provinces (Table I, item 7 + 3)

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The Canadian Electrical Association Statistical Policy 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-at-large.

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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. For this reason Area Representatives must have the complete co-operation of Company representatives in securing the information required for the power survey.







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