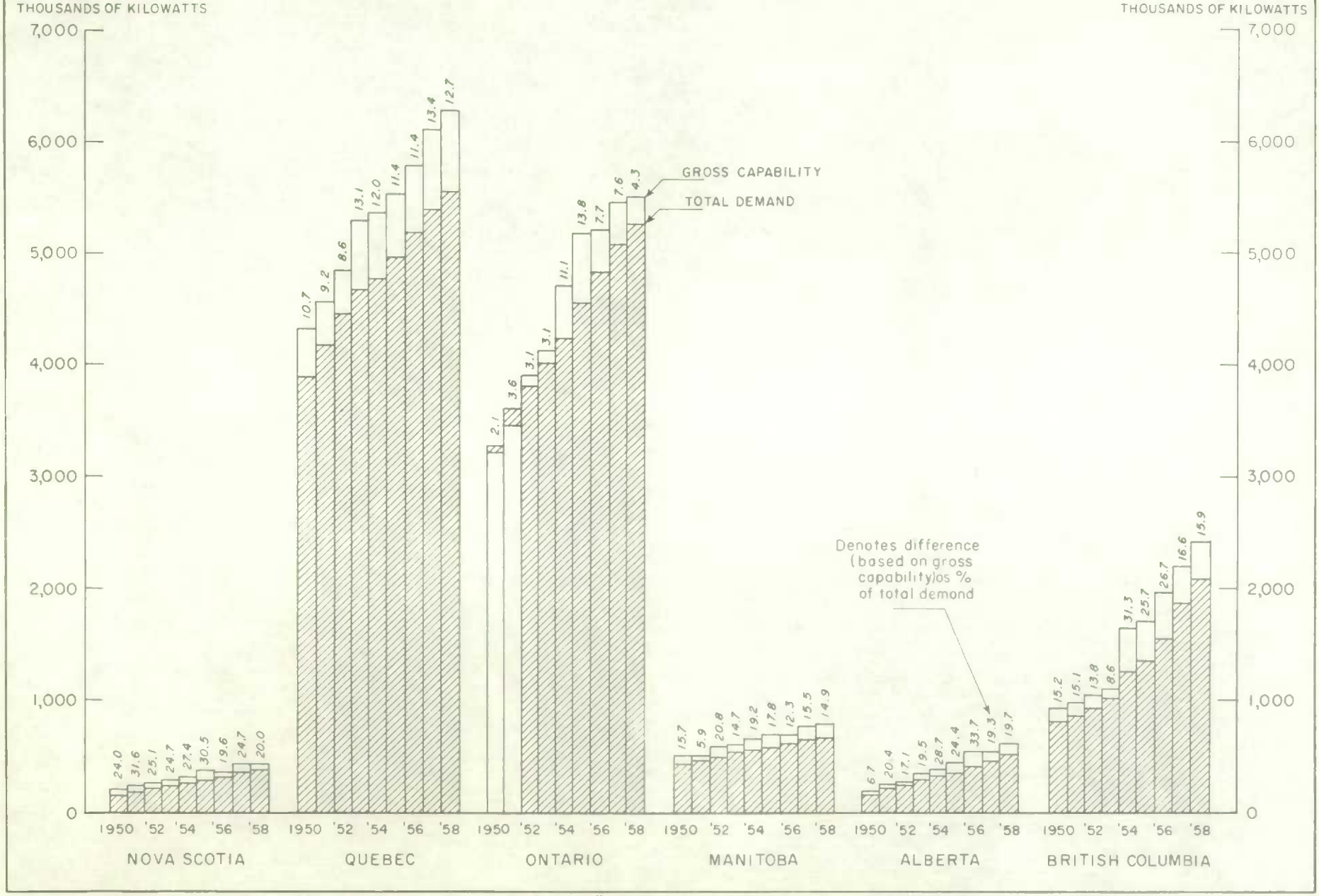
CANADA

ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

As of March, 1955

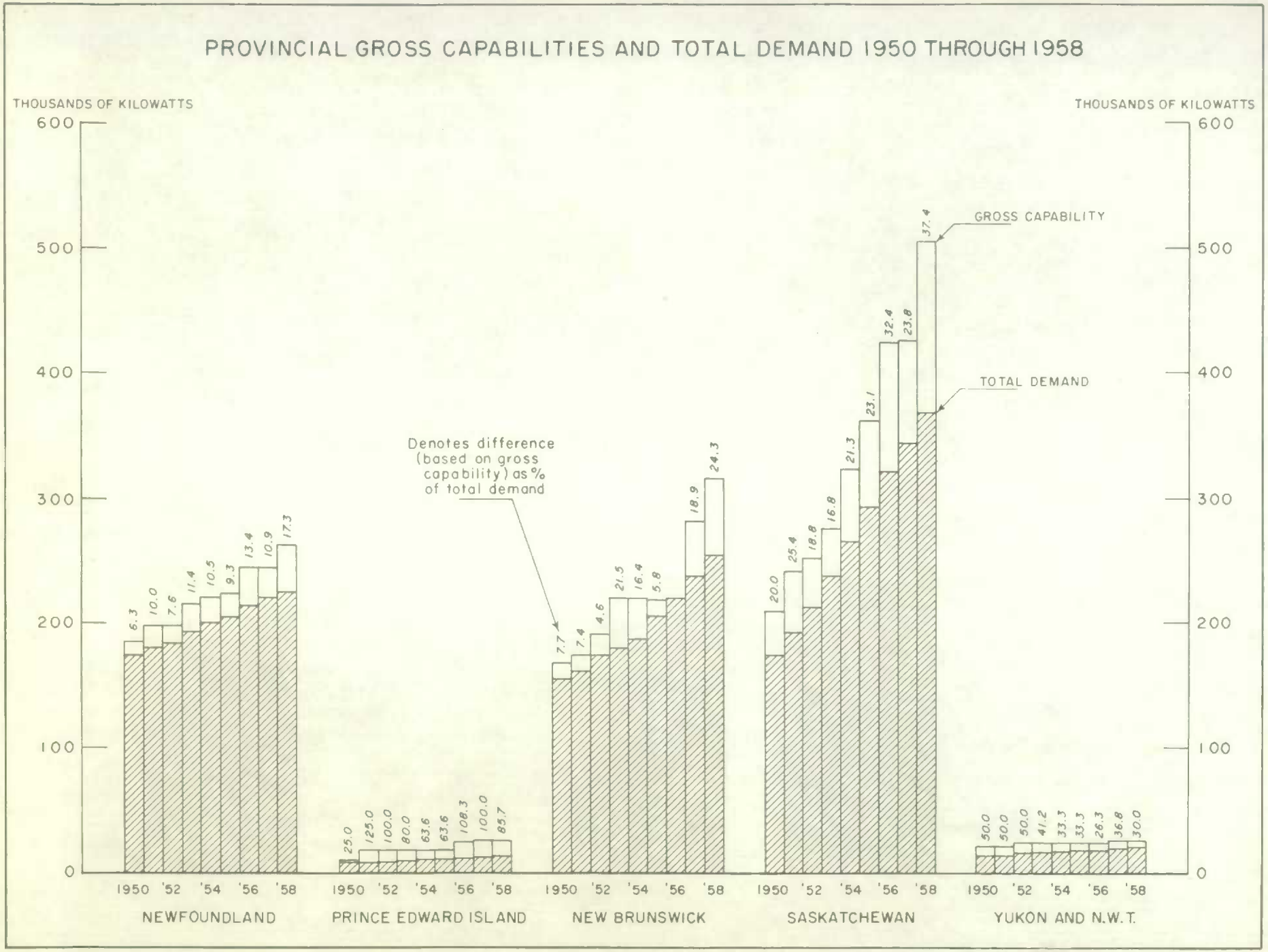
DOMINION BUREAU OF STATISTICS
Public Finance and Transportation Division
Transportation and Public Utilities Section

PROVINCIAL GROSS CAPABILITIES AND TOTAL DEMAND 1950 THROUGH 1958



Addendum to "Annual Electric Power Survey of Capability and Load" as of March 1955, June 28, 1955

PROVINCIAL GROSS CAPABILITIES AND TOTAL DEMAND 1950 THROUGH 1958



Addendum to "Annual Electric Power Survey of Capability and Load" as of March 1955., June 28, 1955

Annual Electric Power Survey
of Capability and Load
as of March, 1955

Errata

Page 5:

Substitute the following for the 4th paragraph:

The rate of growth of gross capability at 9.5 per cent per annum for the period 1950 to 1954 is considerably greater than that forecast for the period 1954 to 1958, 5.8 per cent. Similarly, the rate of growth shown for total demand is greater during the period 1950 to 1954, amounting to 7.4 per cent per annum, as compared with that forecast for the years 1954 to 1958 at 6.7 per cent.

Page 7 Chart:

Differences (based on gross capability) as % of total demand as shown at the top of each bar, 1950 to 1958 read:

7.7	6.2	8.4	9.6	13.9	13.8	12.3	11.8	10.3

Should read:

7.7	6.6	9.1	10.7	16.2	16.1	14.0	13.4	12.3

Dominion Bureau of Statistics, Ottawa.
Public Finance and Transportation Division.

DOMINION BUREAU OF STATISTICS
Public Finance and Transportation Division
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ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

As of March, 1955

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TABLE OF CONTENTS

This is the first report in a new annual series of statistics relating to the electric power industry in Canada. It contains current and projected data of capability and load, for the years 1950 to 1958, inclusive. In view of the important role the electric power industry plays in the Canadian economy and in the development of national resources, it is felt that this type of survey will produce statistics of significance to industry, governments and others concerned.

The results contained in this report are compiled from returns filed by eighty-two producers of electricity, including all of the major private and publicly-operated electric utilities and private industries producing substantial quantities of electric power part of which is usually for sale to the public.

The survey was organized and carried out in co-operation with the Canadian Electrical Association, Inc., committees of which were set up to assist in the planning, development and conduct of this and future surveys.

The co-operation of the Canadian Electrical Association, Inc., representatives serving on committees and others that have contributed by supplying data for this survey is gratefully acknowledged.

Dominion Statistician.

ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

Purpose of Survey

The Dominion Bureau of Statistics in co-operation with the Canadian Electrical Association undertook to survey the principal electric power utilities and other power-producing companies in Canada with the object of obtaining for the present, current and projected data on Capability and Load.

The purpose of this annual survey is to determine both for the country as a whole and by provinces the existing electric power situation and the expected situation for the years ahead, based upon the most up-to-date information available at the time of the survey. The results are presented in summary form on the basis of calendar years.

The 82 power producers included in the survey generated approximately 98 per cent of the kilowatt hour output of electricity generated for sale in 1953. For all practical purposes therefore the forecast and other data contained in this report can be looked upon as being representative of the whole electric power industry in Canada.

The organization, planning and conduct of this survey follows the general pattern, concepts and procedure of similar surveys in the United States, modified where necessary in the light of Canadian conditions.

Concepts and Interpretive Comment

In order to provide an adequate background of data for prior years on the same basis as the new statistics, this first survey covers nine years - five years previous to that in which the survey was taken, the current and three succeeding years. Thus the present report contains data based on actual plant installations and operating results for each of the years 1950 to 1954 inclusive, and forecasts for 1955 to 1958 inclusive. Subsequent surveys will provide retroactive data for two years, and data for the current and three succeeding years, six years in all.

These statistics are predicated on the situation as it existed at the time of each power company's annual firm power peak load for its own customer services, that is, i.e., exclusive of any load resulting from commitments for delivery of firm power to other power-producing utilities.

Generating capability is then established at the time (month) of the annual firm power peak load. Only net kilowatt output (which means after deducting power used in station service) is calculated. This net generating capability refers to the calculated output of the utilities' generating facilities on the basis of actual operating experience, including all equipment available, with no deduction for equipment not operating at the time of the annual firm power peak load, and with no allowance for

the effect of unfavourable water and ice conditions. Thus it will be seen that "Capability, Net Generating", as referred to in these statistics, should not be construed as representing the total capacity of generating facilities on the basis of "name-plate ratings". Rather it is analogous to installed capacity as measured under ideal operating conditions.

For each of the years 1950 to 1954 the capability calculations are based on installations actually in existence for the month in which the firm power peak load occurred. For future years, 1955 to 1958 it is forecast by adding to the 1954 capability the estimated generating capacity of new or additional units or installations, expected to be set up and in operation, and deducting old units to be discontinued or retired.

Other important factors entering into capability and load concepts are those concerning commitments for the purchase and delivery of firm power from and to other utilities. Generally such commitments are covered by more or less formal contractual arrangements. For the purpose of these statistics the full amount of the contractual commitments for firm power are reported.

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. However, since major power producers in every province are not all fully interconnected reserves of power cannot always be completely utilized.

Review of Survey Results

Table I (pages 10 to 20) presents a summary for each province of the information reported. For 1950 to 1954 the firm power peak load actually measured is combined with the indicated shortages or rejected load to derive "demand within province". For future years no attempt has been made to estimate indicated shortages or rejected load.

Table II Capability, Net Generating: Hydro plus Thermal (page 21): A characteristic of the electric power industry is that it must expand its physical facilities in advance of the anticipated demand of its customers. The industry must have not only sufficient capability to meet the demand but also a margin to provide for contingencies such as scheduled and unscheduled equipment outages or unfavourable water and ice conditions.

The growth in net generating capability as illustrated in Table II is quite impressive. During the 4 years 1950 to 1954 the growth amounted to 4 million kilowatts or 43.7 per cent over the 1950 total. Although the rate of growth is somewhat slower during the forecast period 1954 to 1958, a further 3.3 million kilowatts of net generating capability

is scheduled, an increase of 25.1 per cent over 1954. The total growth both actual and planned over the period 1950 to 1958 is 79.8 per cent.

If this rate of growth is continued until 1960 the net generating capability of Canada's electric power industry will have doubled in the decade.

Although the forecast of net generating capability for Canada as a whole shows an increase of 79.8 per cent for the period 1950 to 1958 it varies considerably for the several provinces from a low of 23.8 per cent for the Yukon and the Northwest Territories to 220.9 per cent for Alberta. For most provinces the forecasts reflect a smaller increase during the period 1954 to 1958 than that actually experienced during the four years 1950-1954.

Table III Firm Power Peak Load-Demand Within Province (page 22): During the period 1950 to 1958 the firm power peak load demand within Canada is expected to increase by 6.2 million kilowatts or 74.9 per cent as illustrated in Table III.

Whereas the actual increase in firm power peak load demand experienced during the period 1950-1954 amounted to 2.8 million kilowatts or 33.8 per cent over the 1950 total, that forecast for the next four years amounts to 3.4 millions or 30.7 per cent, over the 1954 total.

The indicated increase, 1950-1958, for Canada as a whole reflects a fairly steady and consistent growth from the 8.3 million kilowatts in 1950 to 14.5 millions forecast for 1958. The actual growth experienced in the past four years 1950-1954 amounted to a rate of 7.5 per cent per annum. The increase forecast for the next four years 1955 to 1958 inclusive is equal to a rate of growth of 7.0 per cent per annum.

Tables IV & V Gross Capability and Total Demand (pages 23 to 28): 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 consumed within the province plus any indicated shortage or rejected load as well as deliveries of firm power to utilities outside the province.

Although provincial totals for net generating capability and for demand within province may be added to arrive at Canada totals it is not possible to add provincial totals of "gross capability" or "total demand" to arrive at Canada totals because of interchanges of power. What appears as a purchase from one province will appear as a delivery in another province and thus inter-provincial exchanges cancel out, and gross capability for Canada is found to be comprised of net generating capability for all provinces plus purchases from outside Canada. Similarly total demand for Canada consists of demand within provinces plus deliveries outside Canada.

Table IV (pages 23 to 25) shows Gross Capability and Total Demand by provinces for selected years 1950, 1954 and 1958, while Table V (pages 26 to 28) shows the relationship between these two factors for each of the years 1950 to 1958 inclusive.

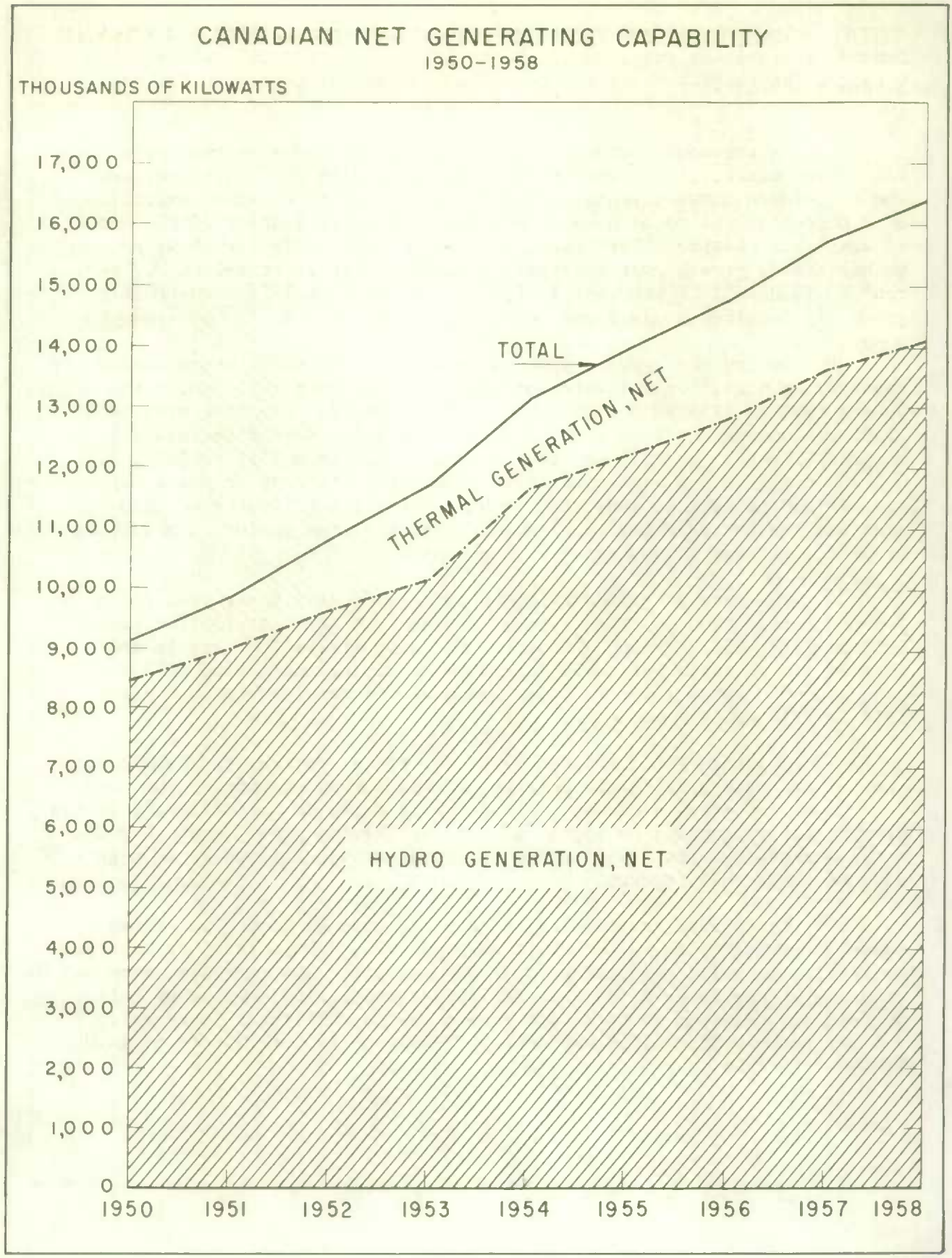
As previously stated the electric power industry must have sufficient capability to meet demand and to provide for contingencies. The difference between gross capability and total firm demand expressed as a percentage of total demand in Table V is an indication of the measure of available reserve. For Canada as a whole this indicator shows a rather steady growth over the years 1950-1954 when it rose from 7.7 per cent in 1950 to 16.2 per cent in 1954. From 1954 to 1958 however it gradually declines to 12.3 per cent.

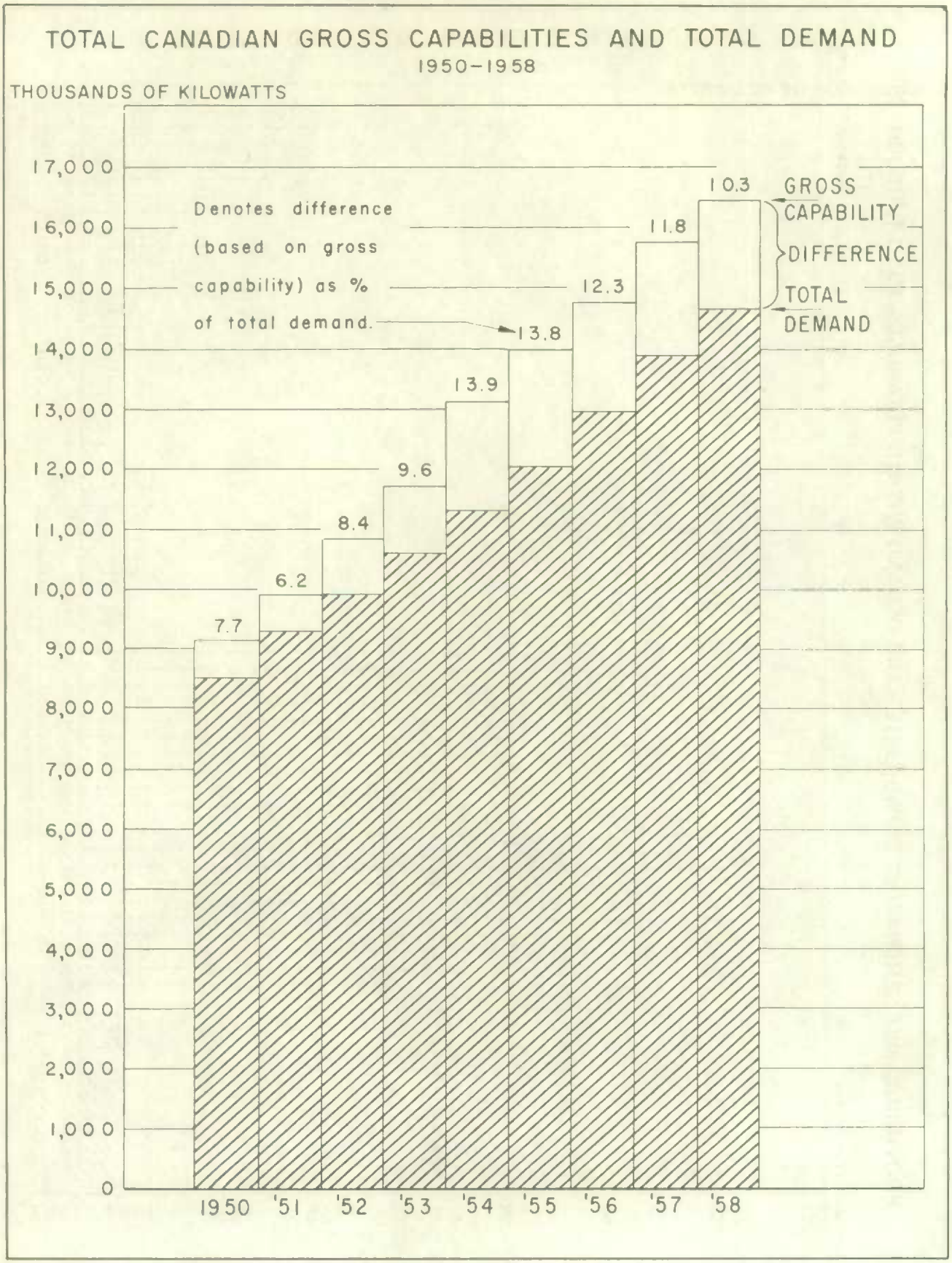
During the 4 years 1950 to 1954 the increase in gross capability amounted to 4 million kilowatts or 43.7 per cent over 1950 and in the period 1954 to 1958 to 3.3 million kilowatts or 25.2 per cent over 1954. Similarly during the four years 1950 to 1954 total demand increased 2.8 million kilowatts or 33.1 per cent over 1950 and from 1954 to 1958, 3.3 millions or 29.6 per cent over 1954. The total increase in gross capability 1950 to 1958 is indicated to be 7.3 million kilowatts or 79.8 per cent and the increase for total demand over the same period is predicted to be 6.2 million kilowatts or 72.5 per cent.

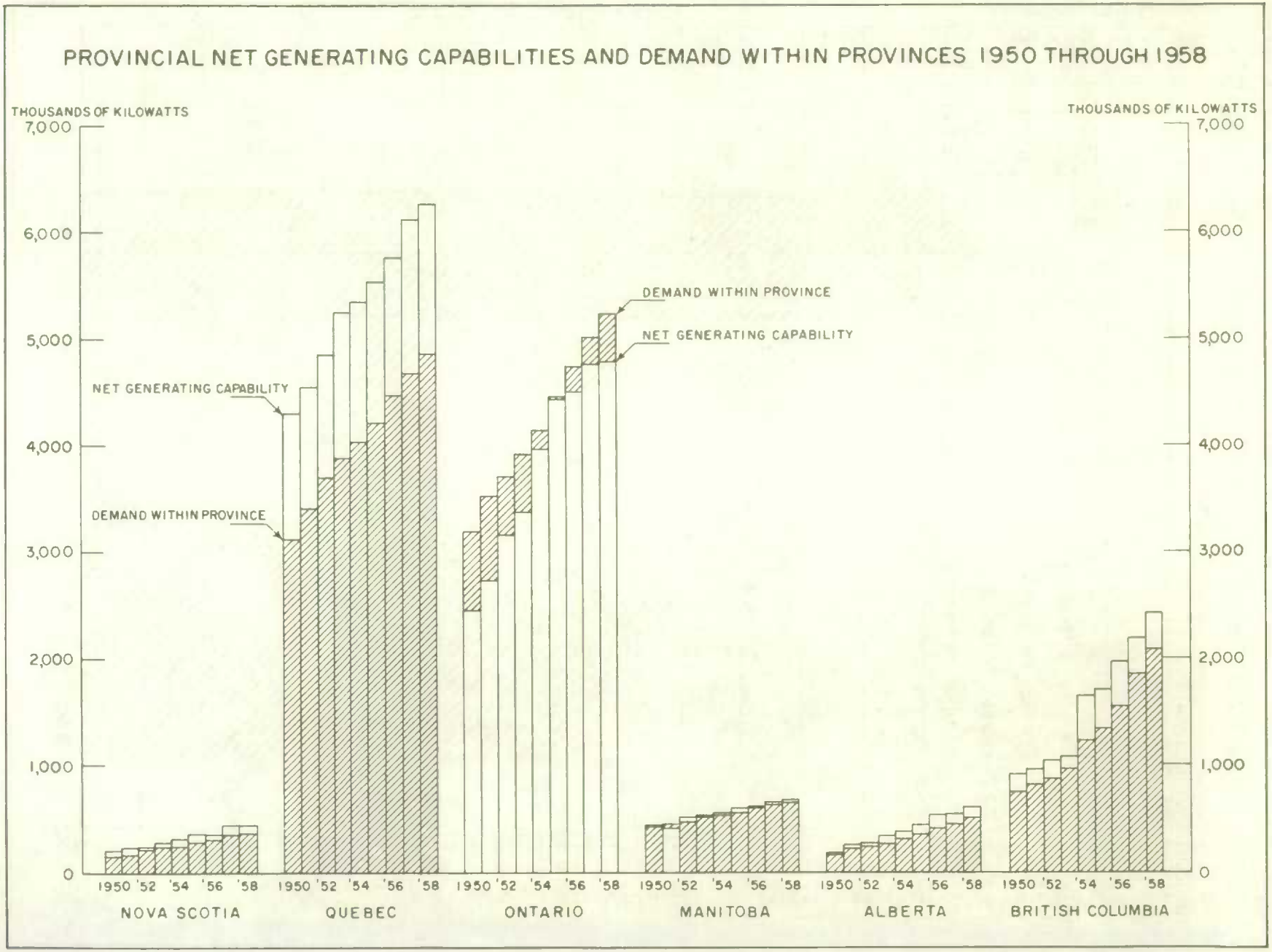
The rate of growth of gross capability at 9.5 per cent per annum for the period 1950 to 1954 is greater than that forecast for the period 1954 to 1958, 5.8 per cent. However, the opposite is the case in the rate of growth shown for total demand which during the period 1950 to 1954 amounted to 10.1 per cent per annum and is forecast for the years 1954 to 1958 at 14.0 per cent.

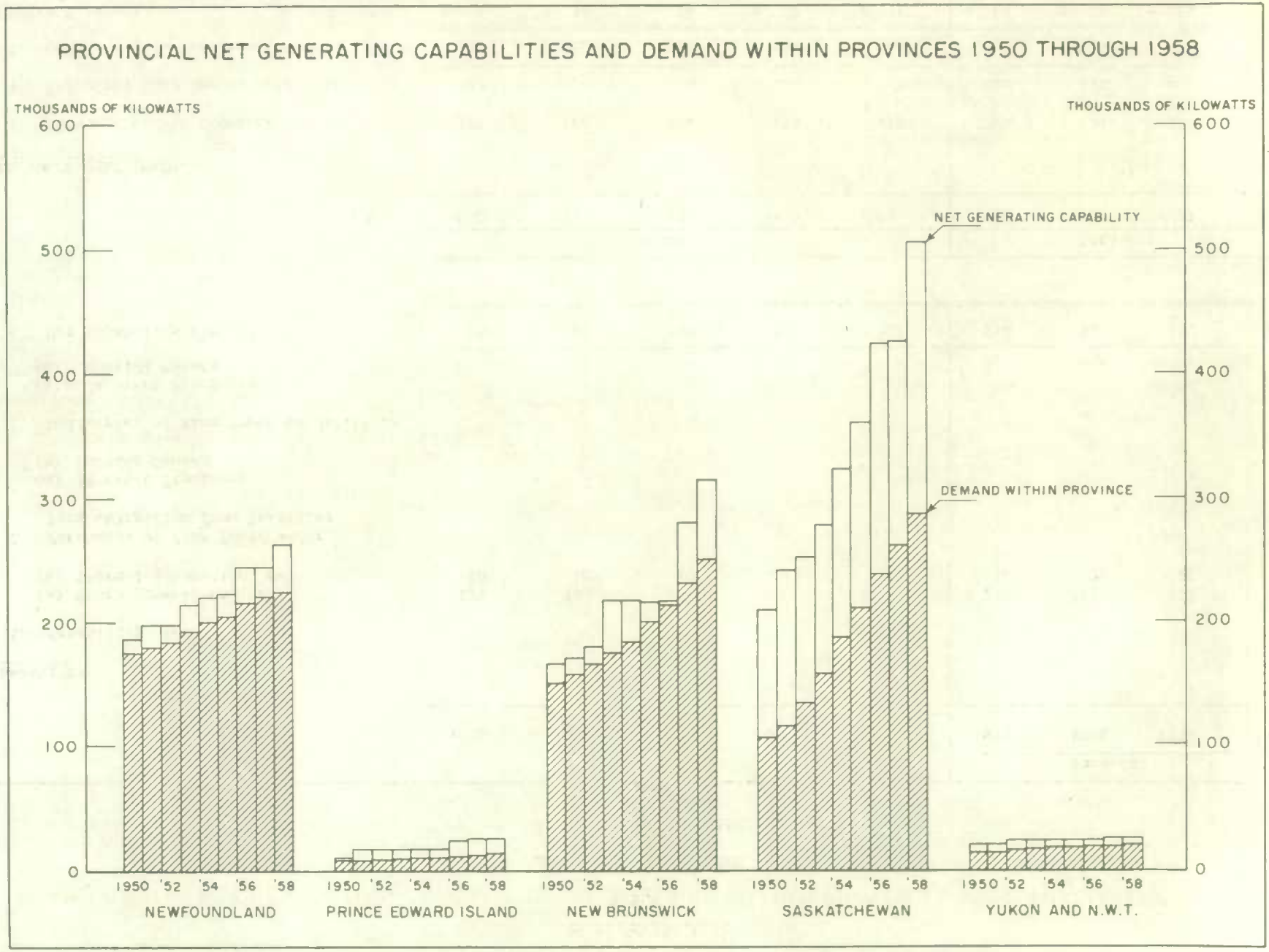
Charts: The charts on pages 6 to 9 portray in graphic form some of the more significant results of this survey concerning the electric power industry in Canada. Attention is drawn to the different scales used in the two charts on pages 8 and 9 showing gross capability and total demand, by provinces, due to the substantial differences in magnitude of the actual figures.

It is also interesting to note the gradual growth in thermal power, as illustrated in the chart on page 6 . While total net thermal generation is still relatively small in Canada, it has increased from 642 thousand kilowatts to 2,295 thousand during the period covered by this survey. In relation to total net generating capability it represented 7.0 per cent in 1950, 11.0 per cent in 1954, and is forecast to be 14.0 per cent in 1958.


CANADIAN NET GENERATING CAPABILITY
1950–1958
THOUSANDS OF KILOWATTS
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
TOTAL
THERMAL GENERATION, NET
HYDRO GENERATION, NET
1950
1951
1952
1953
1954
1955
1956
1957
1958


TOTAL CANADIAN GROSS CAPABILITIES AND TOTAL DEMAND
1950–1958
THOUSANDS OF KILOWATTS
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
Denotes difference (based on gross capability) as % of total demand.
7.7
6.2
8.4
9.6
13.9
13.8
12.3
11.8
10.3
GROSS CAPABILITY
DIFFERENCE
TOTAL DEMAND
1950
'51
'52
'53
'54
'55
'56
'57
'58


PROVINCIAL NET GENERATING CAPABILITIES AND DEMAND WITHIN PROVINCES 1950 THROUGH 1958
THOUSANDS OF KILOWATTS
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0
NET GENERATING CAPABILITY
DEMAND WITHIN PROVINCE
1950 '52 '54 '56 '58
NOVA SCOTIA
QUEBEC
ONTARIO
MANITOBA
ALBERTA
BRITISH COLUMBIA


PROVINCIAL NET GENERATING CAPABILITIES AND DEMAND WITHIN PROVINCES 1950 THROUGH 1958
THOUSANDS OF KILOWATTS
THOUSANDS OF KILOWATTS
600
500
400
300
200
100
0
NET GENERATING CAPABILITY
DEMAND WITHIN PROVINCE
1950 '52 '54 '56 '58
NEWFOUNDLAND
PRINCE EDWARD ISLAND
NEW BRUNSWICK
SASKATCHEWAN
YUKON AND N.W.T.

ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

As of March, 1955

TABLE I

SUMMARY - NEWFOUNDLAND

Thousands of Kilowatts

	Actual					Forecast			
	1950	1951	1952	1953	1954	1955	1956	1957	1958
CAPABILITY:									
1. Capability, Net Generating									
(a) Hydro generation, net	176	188	188	202	207	210	216	216	216
(b) Thermal generation, net	10	10	10	13	14	14	29	29	48
2. Purchases of Firm Power under Firm obligation from Utilities									
(a) In other Provinces	-	-	-	-	-	-	-	-	-
(b) Outside Canada	-	-	-	-	-	-	-	-	-
3. Deliveries of Firm Power to Utilities									
(a) In other Provinces	-	-	-	-	-	-	-	-	-
(b) Outside Canada	-	-	-	-	-	-	-	-	-
4. Net Capability (1+2-3)	186	198	198	215	221	224	245	245	264
FIRM POWER PEAK LOAD:									
5. Consumed Within Province	175	180	184	193	199	205	216	221	225
6. Indicated Shortage or Rejection	-	-	-	-	1	xxx	xxx	xxx	xxx
7. Demand within Province (5+6)	175	180	184	193	200	205	216	221	225
DIFFERENCE (4 - 7)	+ 11	+ 18	+ 14	+ 22	+ 21	+ 19	+ 29	+ 24	+ 39

ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

As of March, 1955

TABLE - I

SUMMARY - PRINCE EDWARD ISLAND

Thousands of Kilowatts

	Actual					Forecast			
	1950	1951	1952	1953	1954	1955	1956	1957	1958
CAPABILITY:									
1. Capability, Net Generating									
(a) Hydro generation, net	-	-	-	-	-	-	-	-	-
(b) Thermal generation, net	10	18	18	18	18	18	25	26	26
2. Purchases of Firm Power under Firm Obligation from Utilities									
(a) In other Provinces	-	-	-	-	-	-	-	-	-
(b) Outside Canada	-	-	-	-	-	-	-	-	-
3. Deliveries of Firm Power to Utilities									
(a) In other Provinces	-	-	-	-	-	-	-	-	-
(b) Outside Canada	-	-	-	-	-	-	-	-	-
4. Net Capability (1+2-3)	10	18	18	18	18	18	25	26	26
FIRM POWER PEAK LOAD:									
5. Consumed Within Province	8	8	9	10	11	11	12	13	14
6. Indicated Shortage or Rejection	-	-	-	-	-	xx	xx	xx	xx
7. Demand Within Province (5+6)	8	8	9	10	11	11	12	13	14
DIFFERENCE (4-7)	+2	+10	+9	+8	+7	+7	+13	+13	+12

ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

As of March, 1955

TABLE - I

SUMMARY - NOVA SCOTIA

Thousands of Kilowatts

	Actual					Forecast			
	1950	1951	1952	1953	1954	1955	1956	1957	1958
CAPABILITY:									
1. Capability, Net Generating									
(a) Hydro generation, net	113	114	117	124	130	135	135	139	139
(b) Thermal generation, net	94	132	152	174	186	246	238	305	305
2. Purchases of Firm Power under Firm Obligation from Utilities									
(a) In other Provinces	-	-	-	-	-	-	-	-	-
(b) Outside Canada	-	-	-	-	-	-	-	-	-
3. Deliveries of Firm Power to Utilities									
(a) In other Provinces	2	2	2	2	2	2	2	2	2
(b) Outside Canada	-	-	-	-	-	-	-	-	-
4. Net Capability (1+2-3)	205	244	267	296	314	379	371	442	442

	Actual					Forecast			
	1950	1951	1952	1953	1954	1955	1956	1957	1958
FIRM POWER PEAK LOAD:									
5. Consumed Within Province	161	183	211	233	243	290	310	354	368
6. Indicated Shortage or Rejection	4	2	2	4	3	xxx	xxx	xxx	xxx
7. Demand Within Province (5+6)	165	185	213	237	246	290	310	354	368
DIFFERENCE (4-7)	+40	+59	+54	+59	+68	+89	+61	+88	+74

ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

As of March, 1955

TABLE - I

SUMMARY - NEW BRUNSWICK

Thousands of Kilowatts

	Actual					Forecast			
	1950	1951	1952	1953	1954	1955	1956	1957	1958
CAPABILITY:									
1. Capability, Net Generating									
(a) Hydro generation, net	90	90	92	112	112	113	113	147	181
(b) Thermal generation, net	76	82	88	106	106	104	105	134	134
2. Purchases of Firm Power under Firm Obligation from Utilities									
(a) In other Provinces	2	2	2	2	2	2	2	2	2
(b) Outside Canada	-	-	-	-	-	-	-	-	-
3. Deliveries of Firm Power to Utilities									
(a) In other Provinces	-	-	-	-	-	-	-	-	-
(b) Outside Canada	5	4	7	6	5	7	6	6	5
4. Net Capability (1+2-3)	163	170	175	214	215	212	214	277	312
	Actual					Forecast			
	1950	1951	1952	1953	1954	1955	1956	1957	1958
FIRM POWER PEAK LOAD:									
5. Consumed Within Province	151	158	167	175	184	200	214	232	250
6. Indicated Shortage or Rejection	-	-	-	-	-	xxx	xxx	xxx	xxx
7. Demand Within Province (5+6)	151	158	167	175	184	200	214	232	250
DIFFERENCE (4-7)	+12	+12	+8	+39	+31	+12	-	+45	+62

ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

As of March, 1955

TABLE - I

SUMMARY - QUEBEC

Thousands of Kilowatts

	Actual					Forecast			
	1950	1951	1952	1953	1954	1955	1956	1957	1958
CAPABILITY:									
1. Capability, Net Generating									
(a) Hydro generation, net	4,295	4,554	4,844	5,268	5,346	5,519	5,771	6,098	6,268
(b) Thermal generation, net	9	9	11	11	12	13	13	15	15
2. Purchases of Firm Power under Firm Obligation from Utilities									
(a) In other Provinces	1	1	1	1	1	1	1	1	1
(b) Outside Canada	-	-	-	-	4	-	-	-	-
3. Deliveries of Firm Power to Utilities									
(a) In other Provinces	711	713	713	713	694	694	653	653	653
(b) Outside Canada	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	4,783	5,076	5,405	5,575
	Actual					Forecast			
	1950	1951	1952	1953	1954	1955	1956	1957	1958
FIRM POWER PEAK LOAD:									
5. Consumed Within Province	3,123	3,412	3,702	3,895	4,037	4,218	4,482	4,683	4,869
6. Indicated Shortage or Rejection	-	-	-	4	-	xxx	xxx	xxx	xxx
7. Demand Within Province (5+6)	3,123	3,412	3,702	3,899	4,037	4,218	4,482	4,683	4,869
DIFFERENCE (4-7)	+415	+383	+385	+612	+576	+565	+594	+722	+706

ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

As of March, 1955

TABLE - I

SUMMARY - ONTARIO

Thousands of Kilowatts

	Actual					Forecast			
	1950	1951	1952	1953	1954	1955	1956	1957	1958
CAPABILITY:									
1. Capability, Net Generating									
(a) Hydro generation, net	2,349	2,458	2,654	2,666	3,463	3,732	3,773	4,042	4,062
(b) Thermal generation, net	127	276	518	726	524	716	730	730	735
2. Purchases of Firm Power under Firm Obligation from Utilities									
(a) In other Provinces	720	722	722	722	707	707	666	666	666
(b) Outside Canada	21	22	23	24	25	32	35	38	41
3. Deliveries of Firm Power to Utilities									
(a) In other Provinces	1	1	1	1	1	1	1	1	1
(b) Outside Canada	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	5,101	5,118	5,390	5,463
	Actual					Forecast			
	1950	1951	1952	1953	1954	1955	1956	1957	1958
FIRM POWER PEAK LOAD:									
5. Consumed Within Province	2,988	3,202	3,713	3,868	4,160	4,471	4,744	5,005	5,237
6. Indicated Shortage or Rejection	213	319	1	60	-	xxx	xxx	xxx	xxx
7. Demand Within Province (5+6)	3,201	3,521	3,714	3,928	4,160	4,471	4,744	5,005	5,237
DIFFERENCE (4-7)	- 70	-129	+117	+124	+473	+630	+374	+385	+226

ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

As of March, 1955

TABLE I

SUMMARY - MANITOBA

Thousands of Kilowatts

	Actual					Forecast			
	1950	1951	1952	1953	1954	1955	1956	1957	1958
CAPABILITY:									
1. Capability, Net Generating									
(a) Hydro generation, net	421	413	503	503	526	561	561	561	561
(b) Thermal generation, net	11	11	11	26	51	51	51	107	136
2. Purchases of Firm Power under Firm obligation from Utilities									
(a) In other Provinces	68	77	79	79	80	82	83	83	83
(b) Outside Canada	-	-	-	-	-	-	-	-	-
3. Deliveries of Firm Power to Utilities									
(a) In other Provinces	9	9	9	9	13	13	13	13	13
(b) Outside Canada	-	-	-	-	-	-	-	-	-
4. Net Capability (1+2-3)	491	492	584	599	644	681	682	738	767
FIRM POWER PEAK LOAD:									
5. Consumed Within Province	423	464	482	521	538	576	606	637	666
6. Indicated Shortage or Rejection	-	-	-	-	-	xxx	xxx	xxx	xxx
7. Demand Within Province (5+6)	423	464	482	521	538	576	606	637	666
DIFFERENCE (4-7)	+68	+28	+102	+78	+106	+105	+76	+101	+101

ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

As of March, 1955

TABLE I

SUMMARY - SASKATCHEWAN
Thousands of Kilowatts

	Actual					Forecast			
	1950	1951	1952	1953	1954	1955	1956	1957	1958
CAPABILITY:									
1. Capability, Net Generating									
(a) Hydro generation, net	85	85	85	85	85	85	85	85	85
(b) Thermal generation, net	125	157	168	193	239	277	340	342	422
2. Purchases of Firm Power under Firm obligation from Utilities									
(a) In Other Provinces	-	-	-	-	-	-	-	-	-
(b) Outside Canada	-	-	-	-	-	-	-	-	-
3. Deliveries of Firm Power to Utilities									
(a) In Other Provinces	68	77	79	79	80	82	83	83	83
(b) Outside Canada	-	-	-	-	-	-	-	-	-
4. Net Capability (1+2-3)	142	165	174	199	244	280	342	344	424
	Actual					Forecast			
	1950	1951	1952	1953	1954	1955	1956	1957	1958
FIRM POWER PEAK LOAD:									
5. Consumed Within Province	107	116	134	159	187	212	238	262	286
6. Indicated Shortage or Rejection	-	-	-	-	-	xxx	xxx	xxx	xxx
7. Demand Within Province (5+6)	107	116	134	159	187	212	238	262	286
DIFFERENCE (4-7)	+ 35	+ 49	+ 40	+ 40	+ 57	+ 68	+104	+ 82	+138

ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

As of March, 1955

TABLE I

SUMMARY - ALBERTA

Thousands of Kilowatts

	Actual					Forecast			
	1950	1951	1952	1953	1954	1955	1956	1957	1958
CAPABILITY:									
1. Capability, Net Generating									
(a) Hydro generation, net	83	162	162	162	202	220	220	220	220
(b) Thermal generation, net	108	109	119	187	193	224	321	323	393
2. Purchases of Firm Power under Firm obligation from Utilities									
(a) In Other Provinces	-	-	-	-	4	4	2	1	-
(b) Outside Canada	-	-	-	-	-	-	-	-	-
3. Deliveries of Firm Power to Utilities									
(a) In Other Provinces	3	5	7	8	-	-	-	-	1
(b) Outside Canada	-	-	-	-	-	-	-	-	-
4. Net Capability (1+2-3)	188	266	274	341	399	448	543	544	612
	Actual					Forecast			
	1950	1951	1952	1953	1954	1955	1956	1957	1958
FIRM POWER PEAK LOAD:									
5. Consumed Within Province	176	220	233	284	310	360	406	456	511
6. Indicated Shortage or Rejection	-	-	-	-	-	xxx	xxx	xxx	xxx
7. Demand Within Province (5+6)	176	220	233	284	310	360	406	456	511
DIFFERENCE (4-7)	+ 12	+ 46	+ 41	+ 57	+ 89	+ 88	+137	+ 88	+101

ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

As of March, 1955

TABLE I

SUMMARY - BRITISH COLUMBIA

Thousands of Kilowatts

	Actual					Forecast			
	1950	1951	1952	1953	1954	1955	1956	1957	1958
CAPABILITY:									
1. Capability, Net Generating									
(a) Hydro generation, net	850	905	966	999	1,574	1,609	1,898	2,117	2,350
(b) Thermal generation, net	72	74	80	96	98	100	85	83	81
2. Purchases of Firm Power under Firm obligation from Utilities									
(a) In Other Provinces	3	5	7	8	-	-	-	-	1
(b) Outside Canada	-	-	-	-	-	1	1	1	2
3. Deliveries of Firm Power to Utilities									
(a) In Other Provinces	-	-	-	-	4	4	2	1	-
(b) Outside Canada	30	30	30	30	30	-	-	-	-
4. Net Capability (1+2-3)	895	954	1,023	1,073	1,638	1,706	1,982	2,200	2,434
	Actual					Forecast			
	1950	1951	1952	1953	1954	1955	1956	1957	1958
FIRM POWER PEAK LOAD:									
5. Consumed Within Province	773	825	895	974	1,239	1,356	1,564	1,887	2,100
6. Indicated Shortage or Rejection	-	-	-	12	-	xxx	xxx	xxx	xxx
7. Demand Within Province (5+6)	773	825	895	986	1,239	1,356	1,564	1,887	2,100
DIFFERENCE (4-7)	+122	+129	+128	+ 87	+399	+350	+418	+313	+334

ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

As of March, 1955

TABLE I

SUMMARY - YUKON AND NORTHWEST TERRITORIES

Thousands of Kilowatts

	Actual					Forecast			
	1950	1951	1952	1953	1954	1955	1956	1957	1958
CAPABILITY:									
1. Capability, Net Generating									
(a) Hydro generation, net	21	21	24	24	24	24	24	26	26
(b) Thermal generation, net	-	-	-	-	-	-	-	-	-
2. Purchases of Firm Power under Firm obligation from Utilities									
(a) In Other Provinces	-	-	-	-	-	-	-	-	-
(b) Outside Canada	-	-	-	-	-	-	-	-	-
3. Deliveries of Firm Power to Utilities									
(a) In Other Provinces	-	-	-	-	-	-	-	-	-
(b) Outside Canada	-	-	-	-	-	-	-	-	-
4. Net Capability (1+2-3)	21	21	24	24	24	24	24	26	26
	Actual					Forecast			
	1950	1951	1952	1953	1954	1955	1956	1957	1958
FIRM POWER PEAK LOAD:									
5. Consumed Within Province	14	14	16	17	18	18	19	19	20
6. Indicated Shortage or Rejection	-	-	-	-	-	xx	xx	xx	xx
7. Demand Within Province (5+6)	14	14	16	17	18	18	19	19	20
DIFFERENCE (4-7)	+ 7	+ 7	+ 8	+ 7	+ 6	+ 6	+ 5	+ 7	+ 6

ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

As of March, 1955

TABLE II

CAPABILITY, NET GENERATING: HYDRO PLUS THERMAL (TABLE I, ITEM I, a + b)

PROVINCE	Thousands of Kilowatts									Percentage Change		
						Forecast						
	1950	1951	1952	1953	1954	1955	1956	1957	1958	1950 - 1954	1954 - 1958	1950 - 1958
Newfoundland	186	198	198	215	221	224	245	245	264	18.8	19.5	41.9
Prince Edward Island	10	18	18	18	18	18	25	26	26	80.0	44.4	160.0
Nova Scotia	207	246	269	298	316	381	373	444	444	52.7	40.5	114.5
New Brunswick	166	172	180	218	218	217	218	281	315	31.3	44.5	89.8
Quebec	4,304	4,563	4,855	5,279	5,358	5,532	5,784	6,113	6,283	24.5	17.3	46.0
Ontario	2,476	2,734	3,172	3,392	3,987	4,448	4,503	4,772	4,797	61.0	20.3	93.7
Manitoba	432	424	514	529	577	612	612	668	697	33.6	20.8	61.3
Saskatchewan	210	242	253	278	324	362	425	427	507	54.3	56.5	141.4
Alberta	191	271	281	349	395	444	541	543	613	106.8	55.2	220.9
British Columbia	922	979	1,046	1,095	1,672	1,709	1,983	2,200	2,431	81.3	45.4	163.7
Yukon & N.W.T.	21	21	24	24	24	24	24	26	26	14.3	8.3	23.8
Canada	9,125	9,868	10,810	11,695	13,110	13,971	14,733	15,745	16,403	43.7	25.1	79.8

ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

As of March, 1955

TABLE III

FIRM POWER PEAK LOAD: DEMAND WITHIN PROVINCE (TABLE I, ITEM 7)

PROVINCE	Thousands of Kilowatts									Percentage Change		
						Forecast						
	1950	1951	1952	1953	1954	1955	1956	1957	1958	1950 - 1954	1954 - 1958	1950 - 1958
Newfoundland	175	180	184	193	200	205	216	221	225	14.3	12.5	28.6
Prince Edward Island	8	8	9	10	11	11	12	13	14	37.5	27.3	75.0
Nova Scotia	165	185	213	237	246	290	310	354	368	49.1	49.6	123.0
New Brunswick	151	158	167	175	184	200	214	232	250	21.9	35.9	65.6
Quebec	3,123	3,412	3,702	3,899	4,037	4,218	4,482	4,683	4,869	29.3	20.6	55.9
Ontario	3,201	3,521	3,714	3,928	4,160	4,471	4,744	5,005	5,237	30.0	25.9	63.6
Manitoba	423	464	482	521	538	576	606	637	666	27.2	23.8	57.4
Saskatchewan	107	116	134	159	187	212	238	262	286	74.8	52.9	167.3
Alberta	176	220	233	284	310	360	406	456	511	76.1	64.8	190.3
British Columbia	773	825	895	986	1,239	1,356	1,564	1,887	2,100	60.3	69.5	171.7
Yukon & N.W.T.	14	14	16	17	18	18	19	19	20	28.6	11.1	42.9
Canada	8,316	9,103	9,749	10,409	11,130	11,917	12,811	13,769	14,546	33.8	30.7	74.9

ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

as of March, 1955

TABLE IV

GROSS CAPABILITY (TABLE I, ITEM I + 2) AND TOTAL DEMAND (TABLE I, ITEM 7 + 3)

1950

Thousands of Kilowatts

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Yukon & N. W. T.	Canada
CAPABILITY:												
1. Capability, Net Generating												
a. Hydro generation net	176	-	113	90	4,295	2,349	421	85	83	850	21	8,483
b. Thermal Generation, net	10	10	94	76	9	127	11	125	108	72	-	642
c. Total	186	10	207	166	4,304	2,476	432	210	191	922	21	9,125
2. Purchases of Firm Power under Firm Obligation from Utilities												
a. In Other Provinces	-	-	-	2	1	720	68	-	-	3	-	xxx
b. Outside Canada	-	-	-	-	-	21	-	-	-	-	-	21
c. Total	-	-	-	2	1	741	68	-	-	3	-	xxx
3. Gross Capability (1c + 2c)	186	10	207	168	4,305	3,217	500	210	191	925	21	9,146
DEMAND:												
4. Firm Power Peak Load												
a. Consumed Within the Province	175	8	161	151	3,123	2,988	423	107	176	773	14	8,099
b. Indicated Shortage or Rejection	-	-	4	-	-	213	-	-	-	-	-	217
c. Demand Within Province	175	8	165	151	3,123	3,201	423	107	176	773	14	8,316
5. Deliveries of Firm Power to Utilities												
a. In Other Provinces	-	-	2	-	711	1	9	68	3	-	-	xxx
b. Outside Canada	-	-	-	5	56	85	-	-	-	30	-	176
c. Total	-	-	2	5	767	86	9	68	3	30	-	xxx
6. Total Demand (4 + 5)	175	8	167	156	3,890	3,287	432	175	179	803	14	8,492

ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

as of March, 1955

TABLE IV

GROSS CAPABILITY (TABLE I, ITEM I + 2) AND TOTAL DEMAND (TABLE I, ITEM 7 + 3)

1954

Thousands of Kilowatts

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Yukon & N.W.T.	Canada
CAPABILITY:												
1. Capability, Net Generating												
a. Hydro generation, net	207	-	130	112	5,346	3,463	526	85	202	1,574	24	11,669
b. Thermal generation, net	14	18	186	106	12	524	51	239	193	98	-	1,441
c. Total	221	18	316	218	5,358	3,987	577	324	395	1,672	24	13,110
2. Purchases of Firm Power under Firm Obligation from Utilities												
a. In other Provinces	-	-	-	2	1	707	80	-	4	-	-	xxx
b. Outside Canada	-	-	-	-	4	25	-	-	-	-	-	29
c. Total	-	-	-	2	5	732	80	-	4	-	-	xxx
3. Gross Capability (1c + 2c)	221	18	316	220	5,363	4,719	657	324	399	1,672	24	13,139
DEMAND:												
4. Firm Power Peak Load												
a. Consumed Within the Province	199	11	243	184	4,037	4,160	538	187	310	1,239	18	11,126
b. Indicated Shortage or Rejection	1	-	3	-	-	-	-	-	-	-	-	4
c. Demand Within Province	200	11	246	184	4,037	4,160	538	187	310	1,239	18	11,130
5. Deliveries of Firm Power to Utilities												
a. In other Provinces	-	-	2	-	694	1	13	80	-	4	-	xxx
b. Outside Canada	-	-	-	5	56	85	-	-	-	30	-	176
c. Total	-	-	2	5	750	86	13	80	-	34	-	xxx
6. Total Demand (4 + 5)	200	11	248	189	4,787	4,246	551	267	310	1,273	18	11,306

ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

as of March, 1955

TABLE IV

GROSS CAPABILITY (TABLE I, ITEM 1 + 2) AND TOTAL DEMAND (TABLE I, ITEM 7 + 3)

1958 (FORECAST)

Thousands of Kilowatts

	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Yukon & N.W.T.	Canada
CAPABILITY:												
1. Capability, Net Generating												
a. Hydro generation, net	216	-	139	181	6,268	4,062	561	85	220	2,350	26	14,108
b. Thermal generation, net	48	26	305	134	15	735	136	422	393	81	-	2,295
c. Total	264	26	444	315	6,283	4,797	697	507	613	2,431	26	16,403
2. Purchases of Firm Power under Firm Obligation from Utilities												
a. In other Provinces	-	-	-	2	1	666	83	-	-	1	-	xxx
b. Outside Canada	-	-	-	-	-	41	-	-	-	2	-	43
c. Total	-	-	-	2	1	707	83	-	-	3	-	xxx
3. Gross Capability (1c + 2c)	264	26	444	317	6,284	5,504	780	507	613	2,434	26	16,446
DEMAND:												
4. Firm Power Peak Load												
a. Consumed within the Province	225	14	368	250	4,869	5,237	666	286	511	2,100	20	14,546
b. Indicated Shortage or Rejection	-	-	-	-	-	-	-	-	-	-	-	-
c. Demand Within Province	225	14	368	250	4,869	5,237	666	286	511	2,100	20	14,546
5. Deliveries of Firm Power to Utilities												
a. In Other Provinces	-	-	2	-	653	1	13	83	1	-	-	xxx
b. Outside Canada	-	-	-	5	56	40	-	-	-	-	-	101
c. Total	-	-	2	5	709	41	13	83	1	-	-	xxx
6. Total Demand (4 + 5)	225	14	370	255	5,578	5,278	679	369	512	2,100	20	14,647

ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

As of March, 1955

TABLE V

GROSS CAPABILITY (TABLE I, ITEM 1 + 2) AND TOTAL DEMAND (TABLE I, ITEM 7 + 3)

	Thousands of Kilowatts									Percentage Change		
						Forecast						
	1950	1951	1952	1953	1954	1955	1956	1957	1958	1950 - 1954	1954 - 1958	1950 - 1958
NEWFOUNDLAND												
1. Gross Capability	186	198	198	215	221	224	245	245	264	18.8	19.5	41.9
2. Total Demand	175	180	184	193	200	205	216	221	225	14.3	12.5	28.6
3. Difference (1-2)	11	18	14	22	21	19	29	24	39	xxx	xxx	xxx
4. Difference expressed as a percentage of Total Demand	6.3	10.0	7.6	11.4	10.5	9.3	13.4	10.9	17.3	xxx	xxx	xxx
PRINCE EDWARD ISLAND												
1. Gross Capability	10	18	18	18	18	18	25	26	26	80.0	44.4	160.0
2. Total Demand	8	8	9	10	11	11	12	13	14	37.5	27.3	75.0
3. Difference (1-2)	2	10	9	8	7	7	13	13	12	xxx	xxx	xxx
4. Difference expressed as a percentage of Total Demand	25.0	125.0	100.0	80.0	63.6	63.6	108.3	100.0	85.7	xxx	xxx	xxx
NOVA SCOTIA												
1. Gross Capability	207	246	269	298	316	381	373	444	444	52.7	40.5	114.5
2. Total Demand	167	187	215	239	248	292	312	356	370	48.5	49.2	121.6
3. Difference (1-2)	40	59	54	59	68	89	61	88	74	xxx	xxx	xxx
4. Difference expressed as a percentage of Total Demand	24.0	31.6	25.1	24.7	27.4	30.5	19.6	24.7	20.0	xxx	xxx	xxx
NEW BRUNSWICK												
1. Gross Capability	168	174	182	220	220	219	220	283	317	31.0	44.1	88.7
2. Total Demand	156	162	174	181	189	207	220	238	255	21.2	34.9	63.5
3. Difference (1-2)	12	12	8	39	31	12	-	45	62	xxx	xxx	xxx
4. Difference expressed as a Percentage of Total Demand	7.7	7.4	4.6	21.5	16.4	5.8	-	18.9	24.3	xxx	xxx	xxx

ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

As of March, 1955

TABLE V

GROSS CAPABILITY (TABLE I, ITEM 1 + 2) AND TOTAL DEMAND (TABLE I, ITEM 7 + 3)

	Thousands of Kilowatts									Percentage Change		
						Forecast						
	1950	1951	1952	1953	1954	1955	1956	1957	1958	1950 - 1954	1954 - 1958	1950 - 1958
QUEBEC												
1. Gross Capability	4,305	4,564	4,856	5,280	5,363	5,533	5,785	6,114	6,284	24.6	17.2	46.0
2. Total Demand	3,890	4,181	4,471	4,668	4,787	4,968	5,191	5,392	5,578	23.1	16.5	43.4
3. Difference (1-2)	415	383	385	612	576	565	594	722	706	xxx	xxx	xxx
4. Difference expressed as a percentage of Total Demand	10.7	9.2	8.6	13.1	12.0	11.4	11.4	13.4	12.7	xxx	xxx	xxx
ONTARIO												
1. Gross Capability	3,217	3,478	3,917	4,138	4,719	5,187	5,204	5,476	5,504	46.7	16.6	71.1
2. Total Demand	3,287	3,607	3,800	4,014	4,246	4,557	4,830	5,091	5,278	29.2	24.3	60.6
3. Difference (1-2)	- 70	- 129	117	124	473	630	374	385	226	xxx	xxx	xxx
4. Difference expressed as a percentage of Total Demand	2.1	3.6	3.1	3.1	11.1	13.8	7.7	7.6	4.3	xxx	xxx	xxx
MANITOBA												
1. Gross Capability	500	501	593	608	657	694	695	751	780	31.4	18.7	56.0
2. Total Demand	432	473	491	530	551	589	619	650	679	27.5	23.2	57.2
3. Difference (1-2)	68	28	102	78	106	105	76	101	101	xxx	xxx	xxx
4. Difference expressed as a percentage of Total Demand	15.7	5.9	20.8	14.7	19.2	17.8	12.3	15.5	14.9	xxx	xxx	xxx
SASKATCHEWAN												
1. Gross Capability	210	242	253	278	324	362	425	427	507	54.3	56.5	141.4
2. Total Demand	175	193	213	238	267	294	321	345	369	52.6	38.2	110.9
3. Difference (1-2)	35	49	40	40	57	68	104	82	138	xxx	xxx	xxx
4. Difference expressed as a percentage of Total Demand:	20.0	25.4	18.8	16.8	21.3	23.1	32.4	23.8	37.4	xxx	xxx	xxx

ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD

As of March, 1955

TABLE V

GROSS CAPABILITY (TABLE I, ITEM 1 + 2) AND TOTAL DEMAND (TABLE I, ITEM 7 + 3)

	Thousands of Kilowatts									Percentage Change		
						Forecast						
	1950	1951	1952	1953	1954	1955	1956	1957	1958	1950 - 1954	1954 - 1958	1950 - 1958
ALBERTA												
1. Gross Capability	191	271	281	349	399	448	543	544	613	108.9	53.6	220.9
2. Total Demand	179	225	240	292	310	360	406	456	512	73.2	65.2	186.0
3. Difference (1-2)	12	46	41	57	89	88	137	88	101	xxx	xxx	xxx
4. Difference expressed as a percentage of Total Demand	6.7	20.4	17.1	19.5	28.7	24.4	33.7	19.3	19.7	xxx	xxx	xxx
BRITISH COLUMBIA												
1. Gross Capability	925	984	1,053	1,103	1,672	1,710	1,984	2,201	2,434	80.8	45.6	163.1
2. Total Demand	803	855	925	1,016	1,273	1,360	1,566	1,888	2,100	58.5	65.0	161.5
3. Difference (1-2)	122	129	128	87	399	350	418	313	334	xxx	xxx	xxx
4. Difference expressed as a percentage of Total Demand	15.2	15.1	13.8	8.6	31.3	25.7	26.7	16.6	15.9	xxx	xxx	xxx
YUKON & NORTHWEST TERRITORIES												
1. Gross Capability	21	21	24	24	24	24	24	26	26	14.3	8.3	23.8
2. Total Demand	14	14	16	17	18	18	19	19	20	28.6	11.1	42.9
3. Difference (1-2)	7	7	8	7	6	6	5	7	6	xxx	xxx	xxx
4. Difference expressed as a percentage of Total Demand	50.0	50.0	50.0	41.2	33.3	33.3	26.3	36.8	30.0	xxx	xxx	xxx
CANADA												
1. Gross Capability	9,146	9,890	10,833	11,719	13,139	14,004	14,769	15,784	16,446	43.7	25.2	79.8
2. Total Demand	8,492	9,278	9,927	10,586	11,306	12,065	12,958	13,916	14,647	33.1	29.6	72.5
3. Difference (1-2)	654	612	906	1,133	1,833	1,939	1,811	1,868	1,799	xxx	xxx	xxx
4. Difference expressed as a percentage of Total Demand	7.7	6.6	9.1	10.7	16.2	16.1	14.0	13.4	12.3	xxx	xxx	xxx

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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.

ELECTRIC POWER SURVEY COMMITTEE

Mr. W.K. Murray,
Nova Scotia Light and Power Co. Ltd.,
Halifax, Nova Scotia.

Mr. A.J. Cyr,
New Brunswick Electric Power Commission,
Fredericton, New Brunswick.

Mr. J.C. Antliff,
Quebec Hydro-Electric Commission,
Montreal, Quebec.

Dr. Huet Massue,
Shawinigan Water and Power Co. Ltd.,
Montreal, Quebec.

Mr. W.S. Preston,
Hydro-Electric Power Commission of Ontario,
Toronto, Ontario.

Mr. C.P. Haltalin,
Winnipeg Electric Company,
Winnipeg, Manitoba.

Mr. W.A. Reed,
Saskatchewan Power Corporation,
Regina, Saskatchewan.

Mr. M.M. Williams,
Calgary Power Ltd.,
Calgary, Alberta.

Mr. H.W. Smith,
British Columbia Electric Company Ltd.,
Vancouver, British Columbia.

Mr. J.H. Lowther,
Dominion Bureau of Statistics,
Ottawa, Ontario.

The function of Area Representatives is primarily one of acting in a direct liaison capacity between the several company representatives in his respective area and the Dominion Bureau of Statistics on all matters relating to the survey ; to co-ordinate and to assist in interpreting survey results. Area representatives may convene meetings of their respective Power Area Committee to determine and review factors and conditions which might appropriately be taken into account in projecting capability and load data for future years, having regard to general economic conditions and prospective developments in the area.

DOMINION BUREAU OF STATISTICS

PUBLIC FINANCE AND TRANSPORTATION DIVISION

TRANSPORTATION AND PUBLIC UTILITIES SECTION

AND

THE CANADIAN ELECTRICAL ASSOCIATION

ANNUAL ELECTRIC POWER SURVEY OF CAPABILITY AND LOAD
(as of March, 1955)

(Note: Separate reports must be submitted for non-integrated parts of a UTILITY)

I. .....
(Name of Reporting UTILITY or SYSTEM)

II. .....
(Province in which located)

III. Names of UTILITIES included if report submitted on a SYSTEM basis.

Note: ALL UTILITIES included in a SYSTEM report must be located in the same Province. A separate report must be submitted for any UTILITY located in another Province.

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IV. Definitions

For the purpose of these statistics, the definitions given on page 4 shall apply.

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V. CAPABILITY
(at time of annual – Calendar Year – FIRM POWER PEAK LOAD)

Thousands of Kilowatts

					Forecast			
1950	1951	1952	1953	1954	1955	1956	1957	1958

1. **CAPABILITY, NET GENERATING (from UTILITY'S own generation)**
   (a) Hydro generation, net.
   (b) Thermal generation, net.

* 2. **Purchases of FIRM POWER under FIRM OBLIGATION from other UTILITIES:**
   (c) Outside Province
   (Total VIII (A) below)
   (d) Within Province
   (Total VIII (B) below)

* 3. **Deliveries of FIRM POWER to other UTILITIES: –**
   (e) Outside Province
   (Total IX (C) below)
   (f) Within Province
   (Total IX (D) below)

4. Net Total (a+b+c+d-e-f)

VI. FIRM POWER PEAK LOAD

5. Consumed within UTILITY or SYSTEM
   (g) Month in which peak load occurred

Note: State below under 6 any indicated shortage within UTILITY or SYSTEM at time of FIRM POWER PEAK LOAD (VI. 5 above) because of inability to meet maximum firm peak demand.

6. Indicated Shortage if any (see Note VI. 5 above)

7. Total (VI. 5 + VI. 6)

VII. Difference between V. 4 and VI. 7 (+ or -)

Thousands of Kilowatts

VIII. Purchases of FIRM POWER from Other UTILITIES								
A. Outside Province								
(List UTILITIES supplying power)								
1.								
2.								
3.								
Total – must equal V. 2(c) above								
B. Within Province								
(List UTILITIES supplying power)								
1.								
2.								
3.								
4.								
5.								
6.								
7.								
Total – must equal V. 2(d) above								
IX. Deliveries of FIRM POWER to other UTILITIES								
C. Outside Province								
(List UTILITIES to which supplied)								
1.								
2.								
3.								
Total – must equal V. 3(e) above								
D. Within Province								
(List UTILITIES to which supplied)								
1.								
2.								
3.								
4.								
5.								
6.								
7.								
Total – must equal V. 3(f) above								

* These items refer to the Maximum Contractual Commitments at the time of the FIRM POWER PEAK LOAD and not to the actual amounts purchased or delivered.

DEFINITIONS

CAPABILITY, NET GENERATING

The maximum net kilowatt output (after station service) available from the generating facilities of the UTILITYor 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, fuel shortage, etc.

FIRM OBLIGATIONS

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

FIRM POWER PEAK LOAD

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

SYSTEM

Defined as 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

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