

Of the 435 main-plant internal combustion engines in central electric stations in 1939 228 or 52 p.c., were in Saskatchewan, 89 or 21 p.c. in Alberta and 40 or 9 p.c. in Manitoba.

During 1939, the thermal engines produced 509,013,000 kwh. at a cost for fuel of \$2,017,077, an average of 0.4 cents per kwh. This production was, however, less than 2 p.c. of the total output.

6.—Main-Plant Equipment of Central Electric Stations, by Provinces, and Total Auxiliary Equipment, 1939

NOTE.—kva. means kilo-volt-amperes.

Type of Equipment and Province	Power Plants	Water Wheels and Turbines			Steam Engines, Steam Turbines and Internal Combustion Engines			Dynamos		
		No.	Capacity	Average Capacity	No.	Capacity	Average Capacity	No.	Capacity	Average Capacity
	No.		h. p.	h. p.		h. p.	h. p.		kva.	kva.
MAIN-PLANT EQUIPMENT										
P.E. Island.....	9	7	392	56	12	7,967	664	18	6,256	348
Nova Scotia.....	46	56	95,045	1,697	33	64,704	1,961	89	135,672	1,524
New Brunswick..	12	16	105,760	6,610	15	33,642	2,243	31	118,564	3,825
Quebec.....	96	266	3,630,505	13,649	8	2,750	344	273	3,205,570	1,174
Ontario.....	138	347	2,254,344	6,497	17	1,440	85	362	1,812,081	5,006
Manitoba.....	30	43	500,800	11,647	47	4,769	101	91	411,671	452
Saskatchewan....	138	Nil	-	-	255	164,538	645	249	138,718	557
Alberta.....	71	11	69,140	6,285	121	80,889	669	128	123,282	963
British Columbia and Yukon....	71	80	584,997	7,312	41	5,440	133	122	483,602	396
Totals.....	611	826	7,240,983	8,766	549	366,139	667	1,363	6,435,416	4,722
AUXILIARY-PLANT EQUIPMENT										
	64	Nil	-	-	124	194,139	1,566	116	165,785	1,429
Grand Totals...	675	826	7,240,983	8,766	673	560,278	833	1,479	6,601,201	4,463

Provincial Distribution of Electric Energy.—In the latest year over 82 p.c. of the total generated electric energy was produced in the leading industrial Provinces of Ontario and Quebec. From Table 18 at p. 294 it will be seen that the total electric energy exported in the calendar year 1940 was 2,135,557,000 kwh., or 7.5 p.c. of the estimated production by central electric stations in that year; in 1939 it had amounted to 1,912,633,000 kwh., or 6.7 p.c. of the total amount generated in central electric stations.

7.—Electric Energy Generated in Central Electric Stations, by Provinces, 1934-39

Province	1934	1935	1936	1937	1938	1939
	'000 kwh.	'000 kwh.	'000 kwh.	'000 kwh.	'000 kwh.	'000 kwh.
Prince Edward Island.....	4,902	5,127	5,769	6,524	7,038	7,747
Nova Scotia.....	389,049	389,144	412,294	446,976	404,828	436,269
New Brunswick.....	394,100	390,003	425,849	501,319	465,358	459,546
Quebec.....	11,335,987	12,628,662	13,019,908	14,341,400	13,707,343	15,234,384
Ontario.....	6,113,595	6,653,219	7,927,044	8,528,726	7,538,071	8,007,127
Manitoba.....	1,183,381	1,342,093	1,574,898	1,697,656	1,686,876	1,775,257
Saskatchewan.....	134,033	138,479	145,219	147,143	153,500	167,242
Alberta.....	193,002	208,054	216,770	222,755	232,451	251,806
British Columbia and Yukon	1,449,075	1,528,252	1,674,531	1,795,146	1,958,695	1,998,652
Totals.....	21,197,124	23,283,033	25,402,282	27,687,645	26,151,160	28,338,030