bituminous and lignite coals are used for the steam engines and gasoline, oil distillates, and producer gas for the internal combustion engines.

Of the 358 main-plant internal combustion engines in central electric stations in 1937, 194, or 54 p.c., were in Saskatchewan, 63 or 18 p.c. in Alberta, and 25 or 7 p.c. in Manitoba.

During 1937, the thermal engines produced 511,923,000 kilowatt hours at a cost for fuel of $2,582,729, an average of 0·5 cents per kilowatt hour. This production was, however, less than 2 p.c. of the total output.

5.—Main-Plant Equipment of Central Electric Stations, by Provinces, and Total Auxiliary Equipment, 1937.

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.
MAIN-PLANT EQUIPMENT.	No.		h.p.	h.p.		h.p.	h.p.		kva.	kva.
P. E. Island	9	8	432	54	9	6,235	693	16	5,147	322
Nova Scotia	43	54	85,169	1,577	33	68,751	2,083	87	131,734	1,514
New Brunswick	14	17	106,010	6,236	16	33,489	2,093	33	118,528	3,592
Quebec	96	264	3,510,756	13,298	7	2,660	371	270	3,122,346	11,564
Ontario	135	341	2,223,948	6,522	16	1,415	88	353	1,785,886	5,059
Manitoba	27	41	469,300	11,446	40	4,155	104	82	383,255	4,674
Saskatchewan	115	Nil	–	–	219	139,321	636	215	117,806	548
Alberta	61	18	69,920	3,884	96	60,390	629	109	105,019	963
British Columbia and Yukon	63	76	557,707	7,338	31	2,487	80	109	436,744	4,007
Totals	568	819	7,023,242	8,575	467	318,843	683	1,274	6,206,465	4,872
AUXILIARY-PLANT EQUIPMENT.	Nil	Nil	–	–	128	197,350	1,542	119	167,839	1,410
Grand Totals	568	819	7,023,242	8,575	595	516,193	868	1,393	6,374,304	4,576

Provincial Distribution of Electric Energy.—The distribution by provinces of the electric energy generated in central electric stations throughout Canada is shown in Table 6 for the calendar years 1932-37. In the latest year over 83 p.c. of the total generated electric energy was produced in the leading industrial provinces of Ontario and Quebec. From Table 7 it is seen that the total electric energy exported in the calendar year 1938 was 1,826,515,000 kilowatt hours, or 7·0 p.c. of the estimated production by central electric stations in that year; in 1937 it had amounted to 1,847,099,787 kilowatt hours, or 6·7 p.c. of the total amount generated in central electric stations.

6.—Electric Energy Generated in Central Electric Stations, by Provinces, calendar years 1932-37.

Province.	1932.	1933.	1934.	1935.	1936.	1937.
	'000 kwh.	'000 kwh.	'000 kwh.	'000 kwh.	'000 kwh.	'000 kwh.
Prince Edward Island	4,662	4,765	4,902	5,127	5,769	6,524
Nova Scotia	279,854	330,436	389,049	389,144	412,294	446,976
New Brunswick	427,604	378,687	394,100	390,003	425,849	501,319
Quebec	8,491,128	9,611,084	11,335,987	12,628,662	13,019,908	14,341,400
Ontario	4,258,042	4,381,094	6,113,595	6,653,219	7,927,044	8,528,726
Manitoba	1,087,010	1,077,210	1,183,381	1,342,093	1,574,898	1,697,656
Saskatchewan	135,898	131,164	134,033	138,479	145,219	147,143
Alberta	195,467	182,963	193,002	208,054	216,770	222,755
British Columbia, Yukon	1,172,392	1,241,587	1,449,075	1,528,252	1,674,531	1,795,146
Totals	16,052,057	17,338,990	21,197,124	23,283,033	25,402,282	27,687,645