PROVINCE OF BRITISH COLUMBIA

SEVENTH ANNUAL REPORT

OF THE

BRITISH COLUMBIA POWER COMMISSION

FOR THE YEAR ENDED MARCH 31st

1952

VICTORIA, B.C.
Printed by DON MCDIARMID, Printer to the Queen's Most Excellent Majesty
1952

To Colonel the Honourable CLARENCE WALLACE, C.B.E.,
Lieutenant-Governor of the Province of British Columbia.

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present the Annual Report of the British Columbia Power Commission for the fiscal year ended March 31st, 1952.

BYRON I. JOHNSON,
Premier.

Victoria, B.C.,
June 30th, 1952.

The Honourable Byron I. Johnson, M.B.E.,
Premier, Parliament Buildings, Victoria, B.C.

SIR,—The Annual Report of the British Columbia Power Commission covering the fiscal year 1951–52 is respectfully submitted herewith in accordance with section 93 of the " Electric Power Act."

We have the honour to be,
Sir,
Your obedient servants,

W. W. FOSTER,
Commissioner.

F. L. SHAW,
Commissioner.

S. R. WESTON,
Chairman.

Victoria, B.C.,
June 30th, 1952.

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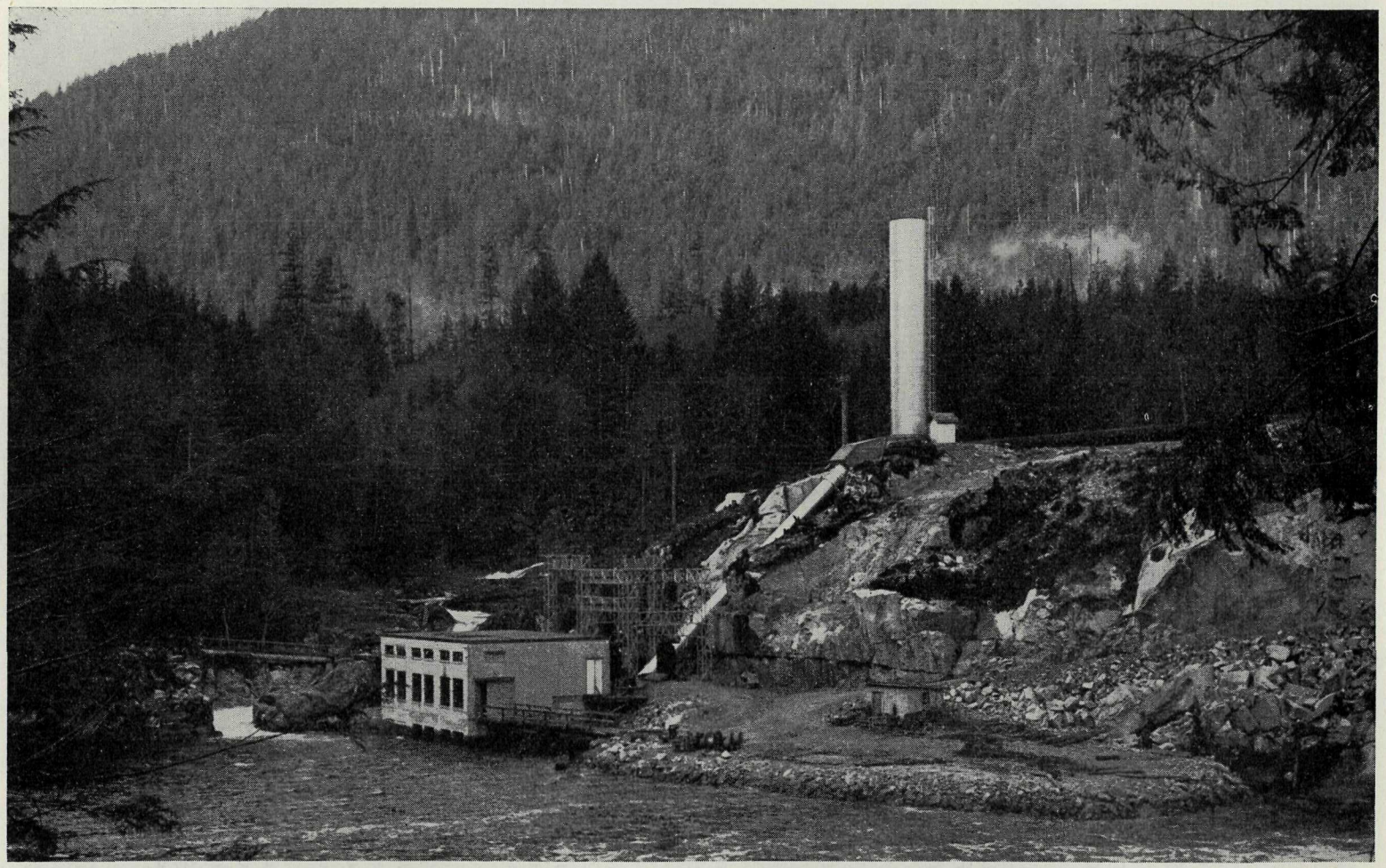


The Commission's latest hydro development—Clowhom Falls, at the head of Salmon Arm, Jervis Inlet. Setting is typical of coastal British Columbia, with forested mountains sloping steeply to the sea.

Seventh Annual Report of the British Columbia Power Commission, Fiscal Year Ended March 31st, 1952

I. GENERAL REVIEW

In this, the sixth full year of operation, the facilities provided by the Commission for service to its customers continued to expand. Generating capacities were increased by over 20 per cent with the completion of the Whatshan hydro development during the year. Diesel installations were extended to an even greater extent. The mileage of distribution-lines constructed, mostly in the outlying areas of the various power districts, brought about a rise in the average investment per customer of 16 per cent.

During the twelve-month period ended March 31st, 1952, the number of customers billed increased by 2,600. The distribution system at Clinton, serving 103 customers, was acquired early in 1952. In June, 1951, the properties at Hope and Lillooet were disposed of to the British Columbia Electric Company Limited as authorized by Special Act of the Legislature. Although served by the Commission for less than six years, the number of customers in these two areas had trebled, increasing from 325 to 965 during that time.

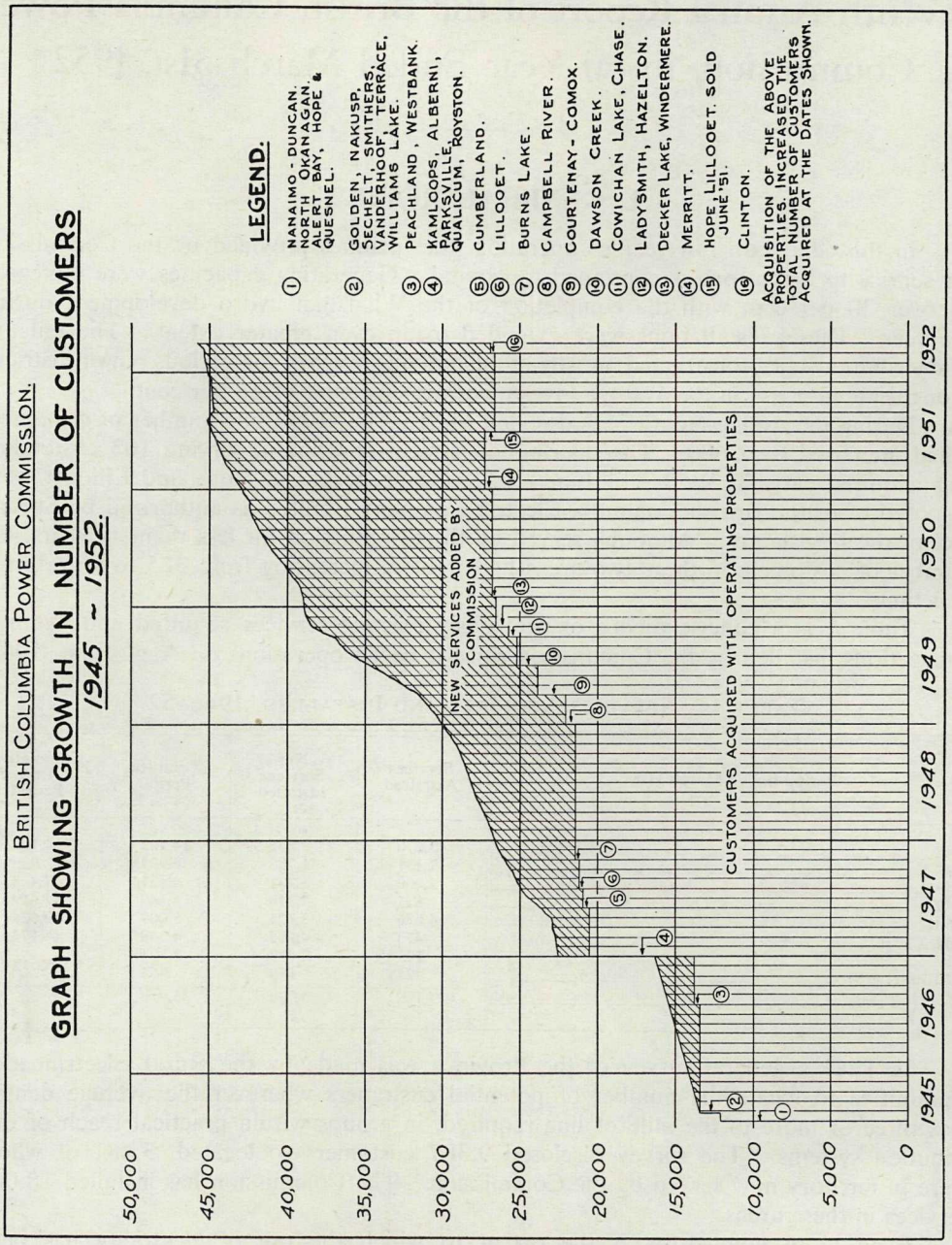
Table 1 is a concise record of previously existing services acquired and net new connections installed by the Commission since it began operations on August 1st, 1945.

TABLE 1.—SERVICES ACQUIRED AND INSTALLED, 1946–52

Period Ended March 31st	Services Acquired	Net Services Installed	Total for Period	Cumulative to End of Period
1946	13,270	832	14,102	14,102
1947	7,151	1,786	8,937	23,039
1948	1,000	3,431	4,431	27,470
1949	831	3,318	4,149	31,619
1950	4,686	3,321	8,007	39,626
1951	473	4,075	4,548	44,174
1952	103	2,600	2,703	45,912
Sold June, 1951	325	640	965	
Totals	27,189	18,723	45,912	.....

In 1943 a general survey of the Province was made by the Rural Electrification Committee to locate the number of potential customers wherever the average density was three or more to the mile of line required, in groups within practical reach of distribution systems. The survey disclosed 9,387 customers so located, 3,481 of whom were in territory now served by the Commission. The Commission has installed 18,000 services in these areas.

Even more noteworthy is the extent to which the use of electricity has been increased. By modern standards, availability of service must include more than merely lighting, which is non-competitive at almost any level of rates. In six years, average residential consumption has more than doubled, while the charge per kwh has decreased by almost 40 per cent during the same period. This progress, shown in Table 2, is attributable in part to the Commission's uniform promotional rate structure which is now in force in all twenty-five power districts. The disappearance of the last of the old tariffs acquired with predecessor companies was a notable event of the year.


BRITISH COLUMBIA POWER COMMISSION.
GRAPH SHOWING GROWTH IN NUMBER OF CUSTOMERS
1945 ~ 1952.
50,000
45,000
40,000
35,000
30,000
25,000
20,000
15,000
10,000
5,000
0
1945
1946
1947
1948
1949
1950
1951
1952
NEW SERVICES ADDED BY COMMISSION
CUSTOMERS ACQUIRED WITH OPERATING PROPERTIES
LEGEND.
① NANAIMO - DUNCAN. NORTH OKANAGAN. ALERT BAY, HOPE & QUESNEL.
② GOLDEN, NAKUSP. SECHELT, SMITHERS. VANDERHOOF, TERRACE. WILLIAMS LAKE.
③ PEACHLAND, WESTBANK.
④ KAMLOOPS, ALBERNI, PARKSVILLE, QUALICUM, ROYSTON.
⑤ CUMBERLAND.
⑥ LILLOOET.
⑦ BURNS LAKE.
⑧ CAMPBELL RIVER.
⑨ COURTENAY - COMOX.
⑩ DAWSON CREEK.
⑪ COWICHAN LAKE, CHASE.
⑫ LADYSMITH, HAZELTON.
⑬ DECKER LAKE, WINDERMERE.
⑭ MERRITT.
⑮ HOPE, LILLOOET. SOLD JUNE '51.
⑯ CLINTON.
ACQUISITION OF THE ABOVE PROPERTIES INCREASED THE TOTAL NUMBER OF CUSTOMERS ACQUIRED AT THE DATES SHOWN.

The effectiveness of the new schedules continues to be demonstrated both by the undertaking's satisfactory financial position and by the steadily *increasing use* of power per capita and *decreasing cost* of power per kwh. The average monthly consumption was 151 kwh per residential customer and 518 kwh per commercial customer during 1951–52. These figures represent a 20-per-cent and 13-per-cent increase respectively over the average monthly consumption in 1950–51. At the same time the average charge per kwh dropped from 3.3 to 3.1 cents for residential customers and from 3.2 to 2.8 cents for commercial customers. This situation is illustrated by the accompanying graphs.

During the year under review, particular attention was given to the development of sources of power to meet future demands. This aspect of the Commission's work attracted widespread public attention and is therefore dealt with in some detail.

The principal source of power for Vancouver Island is now the Commission's John Hart Development at Campbell River, the original planning of which was begun in 1945. The programme called for completion in three stages, each stage requiring the installation of one pipe-line and surge-tank and two hydro-electric generating units, the capacity of each unit to be 28,000 turbine horse-power or 26,500 electrical horse-power. As each pair of units is installed, progressively greater water-storage capacity is required to ensure their continuous operation.

The second stage of the development has been completed since October, 1949, so that four generating units, with a total capacity of 112,000 turbine horse-power or 106,000 electrical horse-power, are in operation. Water-storage, sufficient only for these four units, is provided by Lower Campbell Lake, dammed at Ladore Falls. The John Hart station, as now installed, has not sufficient machine capacity to supply the peak demand beyond December, 1952, which means that all four units would have to be put into continuous operation about that time.

In a report dated March 17th, 1951, the Commission brought this situation to the attention of the Government and requested authority under the "Electric Power Act" to proceed immediately with Stage III of the John Hart Development. This authority was granted, and the installation of generating units Nos. 5 and 6, bringing the total capacity of the plant to 159,000 electrical horse-power, was begun.

While six units promise sufficient machine capacity to meet the demand until the end of 1955, the potential river-flow in a low-water year would not supply the kilowatt-hour load after December, 1954, unless additional storage is available by that date. Consequently, the Commission applied to the Comptroller of Water Rights, under the provisions of the "Water Act," for permission to store water in Buttle Lake. Buttle Lake was chosen in place of Upper Campbell Lake after a careful investigation of the characteristics of both. This investigation disclosed the following:—

(1) A dam at Buttle Lake would provide 15.63 billion cubic feet of storage. Such a dam would be approximately 45 feet high, would raise the water to a maximum of 29 feet above normal high water and, by reason of the generally steep nature of the shore of the lake, would cause comparatively little flooding of the surrounding land.

(2) A dam, 80 feet high, at the outlet of Upper Campbell Lake would provide 10.38 billion cubic feet of storage, or approximately two-thirds of that obtainable at Buttle Lake. Such storage would not permit the development of the John Hart plant to its maximum capacity. The shore of Upper Campbell Lake is generally flat, and a dam at its outlet would result in the flooding of several thousand acres of land, a logging-railway, a highway, and several established properties. The terrain at the outlet of Upper Campbell Lake is not considered suitable as the site of a dam of the required height.

TABLE 2.—STATISTICS RELATING TO THE

Power District	Fiscal Year Ended March 31	Residential Service						Commercial	
		Revenue	Consumption	Number of Customers	Av. Monthly Consumption	Av. Monthly Bill	Revenue per Kwh	Revenue	Consumption
		$	Kwh		Kwh	$	c.	$	Kwh
Alberni	1947	29,556.13	662,644	2,474	90	4.00	4.5	18,405.25	530,739
	1948	122,940.07	2,907,171	2,938	90	3.80	4.2	77,132.03	2,010,020
	1949	136,368.13	3,765,710	3,208	102	3.70	3.6	81,429.61	2,901,691
	1950	147,834.51	4,961,178	3,354	125	3.75	3.0	83,036.08	3,218,867
	1951	170,960.60	6,319,938	3,527	153	4.15	2.7	87,070.95	3,630,063
	1952	200,374.52	7,963,080	3,615	187	4.70	2.5	98,171.61	4,417,944
Alert Bay	1947	5,858.78	53,000	110	43	4.70	11.0	9,219.72	119,000
	1948	6,848.87	96,520	132	68	4.85	7.1	10,076.96	199,110
	1949	8,896.85	194,099	169	108	4.95	4.6	10,817.20	356,670
	1950	11,880.90	312,594	179	151	5.75	3.8	10,458.64	319,851
	1951	15,979.11	449,860	330	165	5.85	3.6	11,364.57	371,979
	1952	23,948.49	673,231	374	159	5.65	3.6	14,091.68	503,667
Burns Lake	1948	2,567.51	14,650	66	48	8.35	17.5	2,488.95	17,195
	1949	5,917.23	32,646	109	34	6.15	18.1	7,293.14	49,924
	1950	5,102.24	77,432	186	53	3.45	6.6	7,367.02	174,199
	1951	10,604.06	203,641	242	78	4.05	5.2	11,271.61	351,894
	1952	17,219.56	423,878	338	122	5.00	4.1	16,882.28	591,829
Campbell River	1949	6,543.76	91,199	713	64	4.60	7.2	4,812.59	75,319
	1950	36,238.20	668,051	794	72	3.95	5.4	24,327.20	563,367
	1951	41,010.51	987,061	922	96	4.00	4.2	25,729.35	869,279
	1952	58,810.50	1,832,349	1,081	152	4.90	3.2	36,259.51	1,611,396
Clinton	1952	323.62	5,898	66	89	4.90	5.5	436.22	11,148
Comox Valley	1947	1,255.30	21,247	93	76	4.50	5.9		
	1948	28,846.60	381,012	837	45	3.40	7.6	9,409.21	221,106
	1949	37,677.14	521,950	860	51	3.70	7.2	11,632.05	270,818
	1950	108,602.24	2,059,626	2,371	77	4.05	5.3	59,351.00	1,548,844
	1951	123,435.83	2,953,547	2,511	101	4.20	4.2	66,144.69	1,884,695
	1952	133,371.58	4,061,701	2,663	133	4.35	3.3	57,567.79	2,441,895
Dawson Creek	1950	37,671.29	576,005	1,031	72	4.70	6.5	53,373.83	839,652
	1951	53,604.86	1,114,412	1,151	86	4.15	4.8	45,911.80	1,429,969
	1952	63,104.75	1,382,433	1,208	97	4.40	4.6	53,875.31	1,683,201
Golden	1947	6,275.26	44,200	124	31	4.35	14.2	7,513.21	74,000
	1948	6,855.41	53,994	141	34	4.30	12.7	8,488.36	98,407
	1949	6,846.84	102,008	158	57	3.80	6.7	8,098.93	210,186
	1950	8,692.40	168,454	173	84	4.35	5.2	9,876.01	290,431
	1951	10,611.69	213,611	197	93	4.65	4.9	9,261.30	284,817
	1952	12,310.42	294,922	211	105	4.70	4.5	9,979.59	315,991
Hazelton	1950	1,676.35	33,625	109	89	4.45	5.0	1,490.47	31,659
	1951	6,613.02	150,347	144	98	4.30	4.4	5,309.95	110,980
	1952	8,656.34	212,376	161	116	4.75	4.1	6,776.09	169,501
Hope	1947	11,103.42	107,300	269	37	3.80	10.3	10,076.62	141,300
	1948	11,470.01	184,792	342	51	3.20	6.2	12,647.95	291,137
	1949	16,558.16	349,212	398	78	3.70	4.7	15,721.28	497,161
	1950	20,696.73	544,149	468	102	3.90	3.8	17,673.17	579,248
	1951	25,597.47	692,109	543	113	4.15	3.7	22,372.45	872,093
	1952	7,785.53	209,913		126	4.65	3.7	7,412.33	262,143

[1] Denotes total number of customers at respective dates of acquisition.

NOTE.—The average monthly consumption and the average monthly bill are based on the average number of customers for the

SUPPLY OF ELECTRICAL ENERGY, 1946–52

Service				Power Service				Street-lighting Service			Totals			
Number of Customers	Av. Monthly Consumption	Av. Monthly Bill	Revenue per Kwh	Revenue	Consumption	Number of Customers	Revenue per Kwh	Revenue	Consumption	Number of Customers	Revenue	Consumption	Number of Customers	Revenue per Kwh
	Kwh	$	c.	$	Kwh		c.	$	Kwh		$	Kwh		c.
.....	.....	.....	.....	.....	.....	.....	.....	.....	(Date of acquisition: Jan. 1st, 1947.)				2,877	.....
427	425	14.70	3.5	3,456.37	32,633	40	10.6	1,732.96	26,148	2	53,150.71	1,252,164	2,943	4.2
484	365	14.00	3.8	15,913.73	431,583	40	3.7	6,776.41	134,571	2	222,762.24	5,483,345	3,464	4.1
534	472	13.25	2.8	24,387.59	1,028,897	46	2.4	6.376.81	154,383	2	248,562.14	7,850,681	3,790	3.2
526	509	13.10	2.6	31,175.68	1,944,961	52	1.6	7,284.06	173,894	2	269,330.33	10,298,900	3,934	2.6
534	573	13.75	2.4	32,720.48	2,343,641	55	1.4	7,816.70	205,163	2	298,568.73	12,498,805	4,118	2.4
518	698	15.50	2.2	39,731.53	2,716,845	56	1.5	8,662.21	217,684	2	346,939.87	15,315,553	4,191	2.3
.....	.....	.....	.....	.....	.....	.....	.....	.....	(Date of acquisition: Aug. 1st, 1945.)				152	.....
55	180	13.95	7.7	3,734.55	73,700	25	5.1	180.00	3,600	1	18,993.05	249,300	191	7.6
65	274	13.80	5.1	2,610.06	54,640	7	4.8	134.00	300	1	19,669.89	350,570	205	5.6
75	409	12.40	3.0	1,547.41	54,202	8	2.9	169.02	3,800	3	21,430.48	608,771	255	3.5
78	344	11.25	3.3	3,638.55	173,343	10	2.1	750.15	28,796	2	26,728.24	834.584	269	3.2
87	384	11.75	3.1	4,246.50	260,899	10	1.6	1,156.50	55,152	3	32,746.68	1,137,890	430	2.9
88	478	13.40	2.8	5,243.46	300,363	10	1.7	1,664.00	68,631	3	44,947.63	1,545,892	475	2.9
.....	.....	.....	.....	(Date of acquisition: Burns Lake, Nov. 1st, 1947; Decker Lake, Feb. 15th, 1950.)									116[1]	.....
28	126	18.30	14.5	392.85	2,803	4	14.0	125.00	3,872	1	5,574.31	38,520	99	14.5
36	130	19.00	14.6	1,675.04	18,801	8	8.9	362.98	17,544	1	15,248.39	118,915	154	12.8
70	255	10.80	4.2	912.12	47,738	5	1.9	618.16	22,301	1	13,999.54	321,670	262	4.4
82	396	12.70	3.2	4,067.09	162,162	10	2.5	632.60	25,446	1	26,575.36	743,143	335	3.6
104	539	15.35	2.9	8,009.69	296,945	10	2.7	962.05	23,481	2	43,073.58	1,336,133	454	3.2
.....	.....	.....	.....	.....	.....	.....	.....	.....	(Date of acquisition: Jan. 1st, 1949.)				831	.....
120	311	19.90	6.4	944.98	26,896	3	3.5	77.65	1,553	1	12,378.98	194,967	837	6.3
151	324	14.00	4.3	5,745.58	163,895	9	3.5	671.54	27,019	2	66,982.52	1,422,332	956	4.7
188	421	12.45	3.0	8,088.86	368,471	12	2.2	847.50	43,800	2	75,676.22	2,268,611	1,124	3.3
230	636	14.30	2.3	20,668.68	990,851	18	2.0	1,344.00	44,200	2	117,082.69	4,478,796	1,331	2.6
.....	.....	.....	.....	.....	.....	.....	.....	.....	(Date of acquisition: Feb. 1st, 1952.)				103	.....
37	301	11.80	3.9	32.78	748	2	4.4	.....	.....	.....	792.62	17,794	105	4.5
.....	(Date of acquisition: Royston, Jan. 1st, 1947; Cumberland, June 5th, 1947; Courtenay-Comox, Apr. 1st, 1949.)												2,593[1]	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,255.30	21,247	93	5.9
75	295	12.50	4.3	2,021.40	78,362	2	2.6	1,422.52	40,175	2	41,699.73	720,655	916	5.8
75	298	12.80	4.3	2,547.31	95,115	3	2.7	2,598.61	77,731	2	54,455.11	965,614	940	5.6
352	395	15.15	3.8	10,727.61	373,740	43	2.9	7,040.13	211,374	4	185,720.98	4,193,584	2,770	4.4
368	436	15.30	3.5	11,406.34	396,791	38	2.9	7,096.72	214,765	4	208,083.58	5,449,798	2,921	3.8
402	525	12.40	2.4	14,554.66	553,337	47	2.6	7,048.34	205,285	4	212,542.37	7,262,218	3,116	2.9
.....	.....	.....	.....	.....	.....	.....	.....	.....	(Date of acquisition: June 30th, 1949.)				1,278	.....
284	370	23.50	6.4	25,294.65	455,775	38	5.6	2,576.25	36,968	2	118,916.02	1,908,400	1,355	6.3
297	415	13.35	3.2	14,660.21	710,574	44	2.1	2,094.00	40,663	2	116,270.87	3,295,618	1,494	3.5
310	467	14.95	3.2	24,483.26	1,165,089	49	2.1	2,217.76	66,363	2	143,681.08	4,297,086	1,569	3.3
.....	.....	.....	.....	.....	.....	.....	.....	.....	(Date of acquisition: Sept. 1st, 1945.)				158	.....
46	135	13.75	10.2	861.04	8,700	7	9.9	954.60	25,000	.....	15,604.11	151,900	177	10.2
54	162	14.00	8.6	745.06	5,914	6	12.6	500.45	.....	.....	16,589.28	158,315	201	10.5
54	317	12.25	3.9	417.82	5,631	5	7.4	796.76	33,104	1	16,160.35	350,929	218	4.6
62	428	14.55	3.4	510.46	7,940	6	6.4	1,302.00	41,899	1	20,380.87	508,724	242	4.0
60	407	13.25	3.3	626.44	14,364	5	4.4	1,320.00	42,923	1	21,819.43	555,715	263	3.9
61	436	13.75	3.2	682.29	22,058	5	3.1	1,372.04	41,089	1	24,344.34	674,060	278	3.6
.....	.....	.....	.....	.....	.....	.....	.....	.....	(Date of acquisition: Nov. 1st, 1949.)				68	.....
41	204	9.60	4.7	643.48	26,128	1	2.5	.....	.....	.....	3,810.30	91,412	151	4.2
49	199	9.50	4.8	2,366.00	100,738	1	2.4	119.90	2,000	2	14,408.87	364,065	196	3.9
50	285	11.40	4.0	2,650.55	132,170	1	2.0	462.25	8,023	2	18,545.23	522,070	214	3.6
.....	.....	.....	.....	.....	.....	.....	.....	.....	(Date of acquisition: Aug. 1st, 1945.)				190	.....
48	284	20.20	7.1	252.60	4,800	4	5.3	286.00	27,676	1	21,718.64	281,076	322	7.7
84	316	13.75	4.4	195.04	5,437	2	3.6	749.00	27,867	1	25,062.00	509,233	429	4.9
91	436	13.80	3.2	1,678.91	75,516	4	2.2	1,110.00	52,680	1	35,068.35	974,569	494	3.6
117	440	13.40	3.1	3,814.88	200,091	8	1.9	1,190.50	54,195	1	43,375.28	1,377,683	594	3.1
143	539	13.80	2.6	8,447.28	334,490	14	2.5	1,420.00	64,600	1	57,837.20	1,963,292	701	2.9
.....	510	14.40	2.8	3,516.21	137,145	.....	2.5	408.57	16,050	.....	19,122.64	625,251	.....	3.0
.....	.....	.....	.....	.....	.....	.....	.....	.....	(Date of sale: June 27th, 1951.)				728	.....

whole year rather than on the actual number shown, which is at the end of the fiscal year.

TABLE 2.—STATISTICS RELATING TO THE SUPPLY

Power District	Fiscal Year Ended March 31	Residential Service						Commercial	
		Revenue	Consumption	Number of Customers	Av. Monthly Consumption	Av. Monthly Bill	Revenue per Kwh	Revenue	Consumption
		$	Kwh		Kwh	$	c.	$	Kwh
Houston									
	1951	2,765.95	50,995	63	94	5.10	5.4	1,652.71	33,715
	1952	5,397.75	123,651	82	149	6.50	4.4	2,851.20	83,031
Kamloops									
	1947	29,586.47	835,165	2,354	118	4.25	3.6	34,612.54	656,614
	1948	113,315.36	3,176,827	2,588	107	3.80	3.6	136,481.20	2,647,482
	1949	124,136.04	3,717,417	2,778	116	3.85	3.3	157,761.03	3,034,725
	1950	148,675.32	4,512,023	3,257	124	4.10	3.3	189,534.87	3,815,925
	1951	175,898.82	5,405,709	3,546	131	4.30	3.3	214,193.92	4,546,975
	1952	202,195.05	6,735,688	3,709	154	4.60	3.0	187,839.43	4,769,416
Lake Cowichan									
	1950	9,645.54	111,310	412	54	4.70	8.7	8,351.60	110,564
	1951	19,004.41	316,770	456	61	3.65	6.0	9,990.24	238,092
	1952	24,872.10	499,190	509	86	4.30	5.0	12,480.61	331,332
Lake Windermere									
	1951	11,167.21	222,981	278	81	4.05	5.0	9,322.58	253,256
	1952	17,723.60	456,291	313	115	4.70	4.1	12,570.49	377,856
Lillooet									
	1948	3,643.72	46,091	82	68	5.35	7.9	3,872.34	109,177
	1949	5,782.38	83,536	81	83	5.75	6.9	6,714.59	192,801
	1950	7,769.87	98,745	150	70	5.50	7.9	8,205.45	248,445
	1951	9,489.21	113,450	162	63	5.25	8.4	8,500.60	254,891
	1952	2,596.75	30,829		62	5.20	8.4	2,281.86	68,068
Merritt									
	1951	4,262.80	60,984	388	53	3.70	7.0	2,944.07	93,220
	1952	18,213.40	293,263	397	62	3.85	6.2	11,975.47	322,835
Nakusp									
	1947	7,952.72	75,000	217	30	3.20	10.6	3,804.34	48,400
	1948	9,347.76	99,211	230	37	3.45	9.4	5,317.30	79,093
	1949	11,278.30	203,261	272	66	3.65	5.5	5,399.76	129,445
	1950	13,435.91	288,992	285	86	4.00	4.7	6,761.13	168,762
	1951	14,956.98	347,610	296	99	4.25	4.3	7,276.23	195,984
	1952	17,499.74	394,212	410	102	4.55	4.4	7,898.01	230,500
Nanaimo-Duncan						(Date of acquisition: Nanaimo-Dun			
	1947	299,777.93	5,933,381	7,477	72	3.65	5.1	140,757.69	3,506,220
	1948	378,033.10	7,839,393	8,278	83	4.00	4.8	188,970.81	4,394,887
	1949	377,682.07	9,802,055	9,102	94	3.60	3.8	230,543.15	7,473,774
	1950	439,755.84	13,787,333	10,696	116	3.70	3.2	269,599.68	9,910,654
	1951	533,452.06	18,342,407	11,457	137	4.00	2.9	284,898.18	11,860,216
	1952	632,634.81	23,504,327	11,886	168	4.50	2.7	303,459.89	13,045,396
North Okanagan									
	1947	173,236.77	4,169,895	4,167	87	3.60	4.2	112,465.09	2,715,790
	1948	203,025.85	5,242,519	4,791	97	3.75	3.9	133,269.83	3,107,124
	1949	256,731.80	7,034,583	5,660	111	4.05	3.6	158,666.22	3,772,011
	1950	315,280.21	9,163,547	6,296	125	4.30	3.4	170,180.39	3,937,094
	1951	363,571.94	10,892,651	6,992	134	4.50	3.3	189,948.09	4,486,445
	1952	403,901.89	12,712,482	7,067	149	4.75	3.2	185,266.79	5,400,563
Peachland-Westbank									
	1947	5,984.54	68,059	244	36	3.15	8.8	3,212.77	41,002
	1948	11,098.89	180,318	312	53	3.25	6.2	5,943.78	116,398
	1949	15,424.04	331,954	360	80	3.75	4.6	7,444.17	172,653
	1950	18,778.35	445,273	398	96	4.05	4.2	9,135.29	255,698
	1951	19,902.87	494,949	403	103	4.15	4.0	8,710.20	219,192
	1952	22,501.99	591,971	407	121	4.60	3.8	9,435.23	215,682

[1] Denotes total number of customers at respective dates of acquisition.

NOTE.—The average monthly consumption and the average monthly bill are based on the average number of customers for the

OF ELECTRICAL ENERGY, 1946–52—*Continued*

Service				Power Service				Street-lighting Service			Totals			
Number of Customers	Av. Monthly Consumption	Av. Monthly Bill	Revenue per Kwh	Revenue	Consumption	Number of Customers	Revenue per Kwh	Revenue	Consumption	Number of Customers	Revenue	Consumption	Number of Customers	Revenue per Kwh
	Kwh	$	c.	$	Kwh		c.	$	Kwh		$	Kwh		c.
.....	.....	.....	.....	.....	.....	.....		(Date of commencement of operation: May 10th, 1950.)					.....	.....
17	244	12.00	4.9	40.62	1,060	1	3.8	216.00	4,250	1	4,675.28	90,020	82	5.2
15	449	15.40	3.4	144.69	2,140	1	6.8	269.92	9,000	1	8,663.56	217,822	99	4.0
.....	.....	.....	.....	.....		(Date of acquisition: Kamloops, Jan. 1st, 1947; Chase, Sept. 30th, 1949.)							3,101[1]	.....
609	392	20.60	5.3	11,258.70	452,823	116	2.5	1,553.75	62,870	1	77,011.46	2,007,472	3,080	3.9
650	335	18.25	5.2	72,421.50	3,473,306	120	2.1	4,809.85	199,320	1	327,027.91	9,496,935	3,359	3.5
710	363	18.90	5.2	70,700.45	3,164,181	118	2.2	4,772.75	197,149	1	357,370.27	10,113,472	3,607	3.5
779	423	21.00	5.0	99,468.88	4,723,241	118	2.1	3,687.81	170,104	2	441,366.88	13,221,293	4,156	3.3
822	465	21.95	4.7	118,516.97	6,019,243	133	2.0	7,319.61	258,171	3	515,929.32	16,230,098	4,504	3.2
821	479	18.85	3.9	126,074.30	6,859,516	145	1.8	9,997.53	397,717	3	526,106.31	18,762,337	4,678	2.8
.....	.....	.....	.....	.....	.....	.....	.....	.....	(Date of acquisition: Sept. 30th, 1949.)				467	.....
72	287	23.35	7.6	16.00	9	1	.....	89.76	2,992	1	18,102.90	224,875	486	8.0
79	271	11.35	4.2	43.22	2	1	.....	248.31	8,277	1	29,286.18	563,141	537	5.2
80	352	13.30	3.8	3,116.25	149,912	3	2.2	521.57	14,900	1	40,990.53	995,334	593	4.1
.....	.....	.....	.....	.....	.....	.....	.....	.....	(Date of acquisition: Jan. 31st, 1950.)				104	.....
82	302	11.10	3.7	2,418.18	76,770	3	3.2	123.75	4,886	1	23,031.72	557,893	364	4.1
87	367	12.20	3.3	5,061.87	211,190	6	2.4	300.00	11,940	1	35,655.96	1,057,277	407	3.4
.....	.....	.....	.....	.....	.....	.....	.....	.....	(Date of acquisition: Aug. 1st, 1947.)				135	.....
45	316	11.20	3.5	781.38	13,545	14	5.8	.....	.....	.....	8,297.44	168,813	141	4.9
40	358	12.45	3.5	1,696.03	33,621	14	5.0	.....	.....	.....	14,193.00	309,958	135	4.6
45	471	15.55	3.3	2,166.62	83,936	15	2.6	351.40	15,960	1	18,493.34	447,086	211	4.2
46	457	15.25	3.3	2,281.59	104,895	12	2.2	594.00	23,790	1	20,865.40	497,026	221	4.2
.....	445	14.90	3.3	486.81	20,979	.....	2.3	163.08	4,820	.....	5,528.50	124,696	.....	4.4
.....	.....	.....	.....	.....	.....	.....	.....	.....	(Date of sale: June 27th, 1951.)				237	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	(Date of acquisition: Dec. 30th, 1950.)				473	.....
80	397	12.55	3.2	775.71	54,550	7	1.4	659.00	25,400	1	8,641.58	234,154	476	3.7
81	337	12.45	3.7	4,440.88	238,704	7	1.9	2,845.38	93,329	1	37,475.13	948,131	486	4.0
.....	.....	.....	.....	.....	.....	.....	.....	.....	(Date of acquisition: Sept. 1st, 1945.)				250	.....
52	76	6.00	7.9	529.68	7,500	12	7.1	.....	.....	.....	12,286.74	130,900	281	9.4
65	114	7.70	6.7	383.11	2,440	5	15.7	.....	.....	.....	15,048.17	180,744	300	8.4
65	167	7.00	4.2	361.70	5,195	8	7.0	301.79	6,314	1	17,341.55	344,215	346	5.0
68	211	8.45	4.0	421.08	6,860	7	6.1	360.00	7,690	1	20,978.12	472,304	361	4.5
67	243	9.05	3.7	676.49	18,146	9	3.7	372.00	7,620	1	23,281.70	569,360	373	4.1
85	278	9.50	3.4	707.47	18,279	9	3.9	426.71	8,827	2	26,531.93	651,818	506	4.1
can, etc., Aug. 1st, 1945; Parksville-Qualicum, Jan. 1st, 1947; Chemainus, Mar. 15th, 1947; Ladysmith, Nov. 1st, 1949.)													8,608[1]	.....
1,048	310	12.45	4.0	198,306.40	13,187,560	294	1.5	12,563.58	446,398	4	651,405.60	23,073,559	8,823	2.8
1,203	320	13.80	4.3	223,901.54	14,448,894	307	1.5	13,680.38	474,242	5	804,585.83	27,157,416	9,793	3.0
1,503	444	13.70	3.1	213,174.35	15,227,253	131	1.4	13,940.97	467,616	4	835,340.54	32,970,698	10,740	2.5
1,684	511	13.90	2.7	180,688.34	14,405,610	149	1.3	16,476.86	610,789	13	906,520.72	37,831,986	12,542	2.4
1,811	567	13.65	2.4	153,102.85	13,175,567	144	1.2	21,175.79	823,658	14	992,628.88	44,201,848	13,426	2.2
1,787	604	14.05	2.3	181,147.89	13,149,065	150	1.4	24,027.65	851,661	14	1,141,270.24	50,550,449	13,837	2.3
.....	.....	.....	.....	.....	.....	.....	.....	.....	(Date of acquisition: Aug. 1st, 1945.)				4,477	.....
795	303	12.55	4.2	125,087.98	7,566,512	226	1.7	9,571.83	434,708	8	420,361.67	14,886,905	5,196	2.8
889	306	13.15	4.3	138,914.71	8,205,735	244	1.7	9,900.79	449,066	8	485,111.18	17,004,444	5,932	2.9
976	335	14.10	4.2	142,438.12	7,959,110	244	1.8	10,672.98	489,535	13	568,509.12	19,255,239	6,893	2.9
1,031	325	14.05	4.3	158,882.09	8,936,704	249	1.8	12,034.99	490,284	8	656,377.68	22,527,629	7,584	2.9
1,094	345	14.60	4.2	171,728.37	9,029,754	249	1.9	13,465.83	568,998	8	738,714.23	24,977,848	8,343	3.0
1,125	404	13.85	3.4	188,191.04	10,126,748	222	1.9	17,629.80	578,984	8	794,989.52	28,818,777	8,422	2.8
.....	.....	.....	.....	.....	.....	.....	.....	.....	(Date of acquisition: Aug. 7th, 1946.)				288	.....
45	114	8.90	7.8	2,841.19	79,335	12	3.6	325.01	10,952	2	12,363.51	199,348	303	6.2
55	192	9.80	5.1	4,372.84	297,533	15	1.5	660.00	23,946	2	22,075.51	618,195	384	3.6
64	245	10.55	4.3	6,594.36	368,399	16	1.8	730.00	27,291	2	30,192.57	900,297	442	3.4
71	320	11.40	3.6	8,529.56	433,152	20	2.0	870.00	34,070	2	37,313.20	1,168,193	491	3.2
70	257	10.20	4.0	10,153.72	548,738	24	1.9	870.00	36,090	2	39,636.79	1,298,969	499	3.1
75	245	10.75	4.4	11,980.94	711,198	23	1.7	860.54	36,290	2	44,778.70	1,555,141	507	2.9

whole year rather than on the actual number shown, which is at the end of the fiscal year.

TABLE 2.—STATISTICS RELATING TO THE SUPPLY

Power District	Fiscal Year Ended March 31	Residential Service						Commercial	
		Revenue	Consumption	Number of Customers	Av. Monthly Consumption	Av. Monthly Bill	Revenue per Kwh	Revenue	Consumption
		$	Kwh		Kwh	$	c.	$	Kwh
Quesnel	1947	9,856.63	127,000	252	45	3.50	7.7	13,962.69	171,200
	1948	11,726.60	172,363	312	51	3.50	6.8	15,086.51	316,178
	1949	15,435.00	273,872	403	66	3.70	5.6	17,464.16	458,739
	1950	22,004.89	430,700	510	78	4.00	5.1	24,771.04	708,675
	1951	30,995.64	691,357	647	99	4.40	4.5	32,168.21	985,701
	1952	44,674.48	1,115,355	823	125	5.00	4.0	38,307.61	1,237,776
Sechelt	1947	15,609.09	139,159	423	30	3.40	11.2	5,747.09	70,300
	1948	20,850.30	255,328	628	40	3.25	8.2	7,488.11	139,777
	1949	30,391.53	446,248	763	52	3.55	6.8	10,946.95	315,380
	1950	39,875.07	591,434	892	55	3.70	6.7	12,007.80	409,694
	1951	45,541.72	719,286	1,005	61	3.90	6.4	13,489.84	468,241
	1952	55,572.30	1,001,136	1,155	78	4.25	5.5	15,401.04	557,216
Smithers	1947	10,920.33	102,000	245	36	3.85	10.7	9,737.67	75,000
	1948	10,577.48	158,769	308	49	3.30	6.7	10,867.63	247,854
	1949	15,814.70	333,809	369	83	3.90	4.7	14,248.84	445,398
	1950	20,670.41	567,052	396	123	4.45	3.7	17,006.03	528,626
	1951	26,268.37	827,678	447	160	5.10	3.2	18,996.01	625,436
	1952	34,114.29	1,183,651	516	203	5.85	2.9	21,706.23	763,395
Terrace	1947	2,850.84	17,100	62	26	4.30	16.7	3,692.31	33,100
	1948	4,736.81	52,155	186	38	3.50	9.1	5,984.98	93,072
	1949	9,853.09	136,816	261	50	3.55	7.2	6,649.24	133,184
	1950	14,296.73	256,957	328	73	4.05	5.6	8,667.07	228,086
	1951	20,466.73	431,932	381	99	4.70	4.7	12,694.89	361,448
	1952	30,837.65	820,306	519	152	5.75	3.8	21,401.10	754,939
Ucluelet-Tofino	1952	8,853.03	187,334	164	136	6.40	4.7	3,721.53	120,262
Vanderhoof	1947	4,462.45	43,800	78	49	5.00	10.2	7,917.34	70,000
	1948	4,424.41	64,373	106	60	4.15	6.9	6,138.75	101,171
	1949	5,858.85	114,864	125	84	4.25	5.1	6,608.10	177,005
	1950	7,325.58	173,711	144	109	4.60	4.2	7,784.69	217,696
	1951	9,628.04	263,654	188	138	5.00	3.7	8,889.64	316,218
	1952	14,519.85	427,588	219	174	5.90	3.4	13,464.30	593,061
Williams Lake	1947	7,324.45	85,300	116	66	5.70	8.6	11,386.30	150,600
	1948	7,184.58	126,285	157	76	4.30	5.7	13,546.73	292,938
	1949	9,625.70	197,675	202	90	4.35	4.9	16,069.72	432,245
	1950	12,718.04	292,533	259	103	4.45	4.4	19,239.98	568,683
	1951	15,918.77	433,415	272	136	5.00	3.7	20,724.82	603,354
	1952	20,806.24	663,830	300	192	6.00	3.1	23,017.00	747,488
Totals	1947	621,611.11	12,484,250	18,705	74	3.70	5.0	392,510.63	8,403,265
	1948	957,493.33	21,051,771	22,434	84	3.80	4.5	653,211.43	14,482,126
	1949	1,096,821.61	27,732,914	25,991	96	3.80	4.0	778,320.73	21,099,129
	1950	1,448,626.62	40,120,724	32,688	110	4.00	3.6	1,018,198.44	28,674,720
	1951	1,761,708.67	52,700,354	36,548	126	4.20	3.3	1,128,836.90	35,348,153
	1952	2,082,820.23	67,800,885	38,193	151	4.65	3.1	1,174,530.20	41,627,531

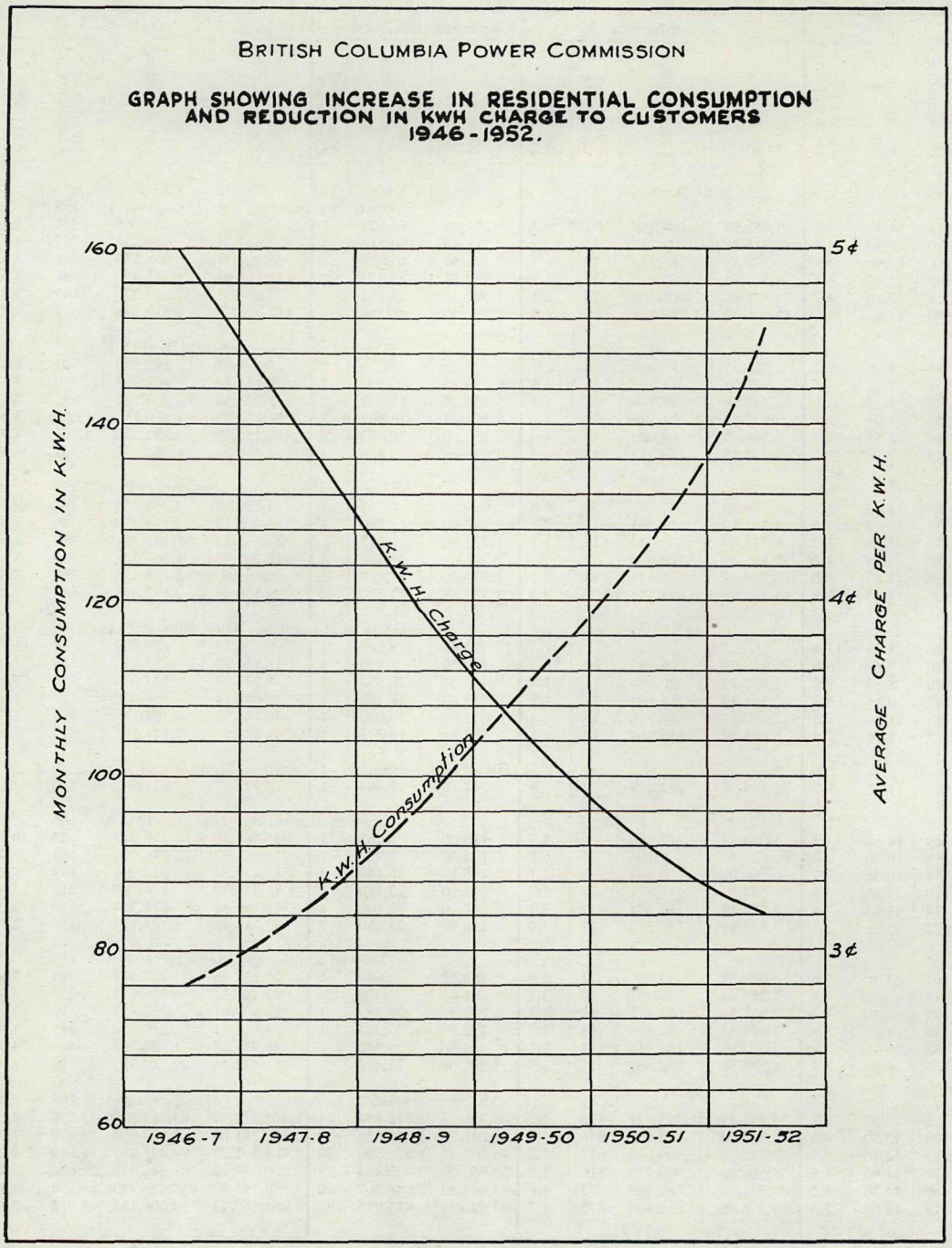
[2] *See* Statement 2, "Combined Operations—Financial Summary."

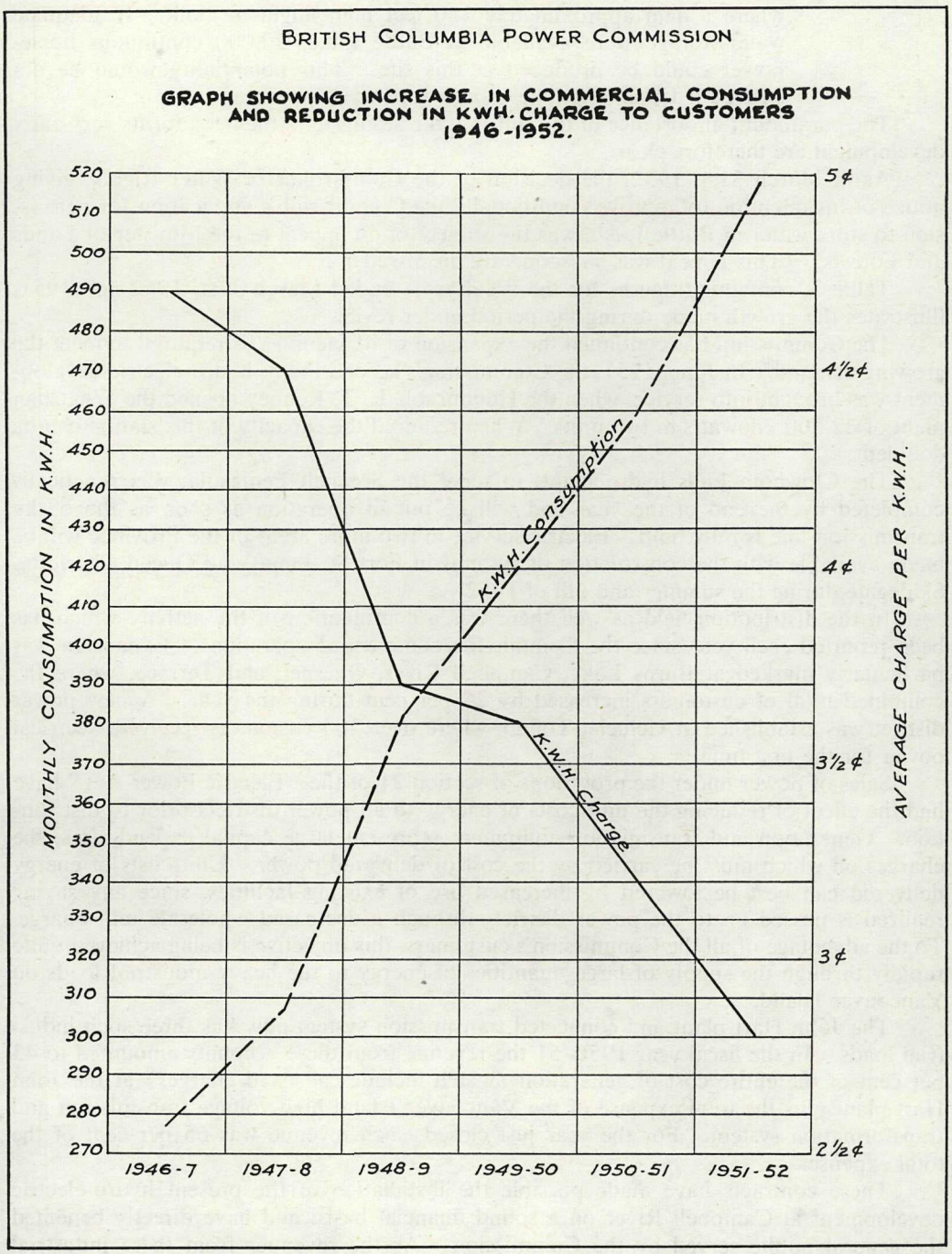
NOTE.—The average monthly consumption and the average monthly bill are based on the average number of customers for the

OF ELECTRICAL ENERGY, 1946–52—*Continued*

Service				Power Service				Street-lighting Service			Totals			
Number of Customers	Av. Monthly Consumption	Av. Monthly Bill	Revenue per Kwh	Revenue	Consumption	Number of Customers	Revenue per Kwh	Revenue	Consumption	Number of Customers	Revenue	Consumption	Number of Customers	Revenue per Kwh
	Kwh	$	c.	$	Kwh		c.	$	Kwh		$	Kwh		c.
									(Date of acquisition: Aug. 1st, 1945.)				289	
85	174	14.20	8.2	3,451.98	104,260	22	3.3	374.00	50,808	1	27,645.30	453,268	360	6.1
101	279	13.30	4.8	2,315.88	102,581	13	2.3	518.40	50,112	1	29,647.39	641,234	427	4.6
115	358	13.60	3.8	2,533.81	165,523	17	1.5	776.80	40,006	1	36,209.77	938,140	536	3.9
151	442	15.45	3.5	4,317.93	282,410	25	1.5	1,059.18	25,625	2	52,153.04	1,447,410	688	3.6
171	524	17.10	3.3	12,478.65	604,306	28	2.1	1,367.41	38,162	1	77,009.91	2,319,526	847	3.3
187	570	17.65	3.1	32,846.69	1,858,511	29	1.8	1,582.00	41,556	3	117,410.78	4,253,198	1,042	2.8
									(Date of acquisition: Sept. 1st, 1945.)				337	
74	91	7.40	8.2	2,228.27	83,400	4	2.7				23,584.45	292,859	501	8.1
94	139	7.45	5.3	776.33	11,993	6	6.5	38.50	1,500	2	29,153.24	408,598	730	7.1
120	235	8.15	3.5	3,382.78	97,746	8	3.5	306.28	11,498	2	45,027.54	870,872	893	5.2
126	272	7.95	2.9	887.78	11,526	7	7.7	504.22	16,503	2	53,274.87	1,029,157	1,027	5.2
141	294	8.50	2.9	3,500.17	88,002	13	4.0	750.00	26,683	3	63,281.73	1,302,212	1,162	4.9
139	333	9.20	2.8	5,280.19	149,719	15	3.5	1,036.25	36,106	3	77,289.78	1,744,177	1,312	4.4
									(Date of acquisition: Sept. 1st, 1945.)				293	
66	88	11.40	12.9	3,178.94	47,000	28	6.8	684.00	8,758	1	24,520.94	232,758	340	10.5
102	237	10.40	4.4	3,343.17	154,791	15	2.2	707.00	13,580	1	25,495.28	574,994	426	4.5
108	356	11.40	3.2	6,234.69	478,732	17	1.3	1,078.00	33,415	2	37,376.23	1,291,354	496	2.9
117	380	12.25	3.2	9,862.89	428,428	21	2.3	1,204.65	43,400	2	48,743.98	1,567,506	536	3.1
118	456	13.85	3.0	13,795.42	655,441	21	2.1	1,332.00	50,800	2	60,391.80	2,159,355	588	2.8
125	520	14.85	2.9	18,373.90	691,151	22	2.7	1,331.98	52,200	2	75,526.40	2,690,397	665	2.8
									(Date of acquisition: Sept. 20th, 1945.)				59	
35	80	8.95	11.1					93.00	9,000	1	6,636.15	59,200	98	11.2
56	149	9.60	6.5	279.98	6,145	3	4.6	152.50	7,450	1	11,154.27	158,822	246	7.0
66	170	8.50	5.0	1,033.73	30,494	7	3.4	497.27	20,530	1	18,033.33	321,024	335	5.6
73	267	10.15	3.8	2,391.44	154,869	11	1.5	522.00	18,140	1	25,877.24	658,052	413	3.9
97	336	11.80	3.5	5,460.17	384,739	15	1.4	522.00	20,030	1	39,143.79	1,198,149	494	3.3
138	535	15.15	2.8	8,608.39	550,384	17	1.6	564.84	18,712	1	61,411.98	2,144,341	675	2.9
								(Date of commencement of operation: June 6th, 1951.)						
43	383	11.85	3.1	3,104.75	204,447	2	1.5	244.76	9,464	1	15,924.07	521,507	210	3.1
									(Date of acquisition: Sept. 1st, 1945.)				106	
45	129	14.65	11.3	1,008.31	12,200	4	8.3	180.00	3,285	1	13,568.10	129,285	128	10.5
52	168	10.20	6.0	621.87	9,106	5	6.8	180.00	2,250	1	11,365.03	176,900	164	6.4
57	278	10.35	3.7	560.09	9,884	6	5.7	446.50	16,140	1	13,473.54	317,893	189	4.2
62	310	11.10	3.6	637.83	11,221	6	5.7	577.60	22,160	1	16,325.70	424,788	213	3.9
72	414	11.65	2.8	2,188.18	66,772	9	3.3	648.00	25,100	1	21,353.86	671,744	270	3.2
79	672	15.26	2.3	4,138.48	136,364	10	3.0	696.00	28,130	2	32,818.63	1,185,143	310	2.8
									(Date of acquisition: Sept. 1st, 1945.)				161	
64	207	15.20	7.6	3,059.51	53,000	22	5.8	452.00	3,689	1	22,222.26	292,589	203	7.6
86	311	14.40	4.6	1,269.63	38,452	10	3.3	461.40	8,400	1	22,462.34	466,075	254	4.8
102	385	14.30	3.7	1,813.19	64,472	14	2.8	792.00	29,297	1	28,300.61	723,689	319	3.9
110	439	14.85	3.4	2,867.45	99,413	15	2.9	792.00	26,321	1	35,617.47	986,950	385	3.6
116	438	15.05	3.4	3,452.08	161,854	17	2.1	841.00	29,840	1	40,936.67	1,228,463	406	3.3
112	535	16.48	3.1	6,598.81	266,962	17	2.5	1,001.06	32,473	1	51,423.11	1,710,753	430	3.0
								(Of existing properties at respective dates of acquisition.)					27,189	
3,494	278	13.00	4.7	359,255.52	21,713,423	816	1.7	28,950.73	1,112,892	24	1,402,327.99	43,713,830	23,039	3.2
4,188	308	13.90	4.5	471,260.08	27,343,260	818	1.7	40,816.20	1,436,651	30	2,122,781.04	64,313,808	27,470	3.3
4,911	382	14.10	3.7	483,722.36	28,909,668	677	1.7	45,807.17	1,679,586	40	2,404,671.87	79,421,297	31,619	3.0
6,070	420	14.90	3.6	553,600.90	32,970,990	816	1.7	59,963.26	2,080,484	52	3,080,389.22	103,846,918	39,626	3.0
6,691	460	14.70	3.2	587,241.59	35,681,969	875	1.6	73,008.62	2,646,267	60	3,550,795.78	126,376,743	44,174	2.8
6,779	518	14.60	2.8	719,876.46	41,660,820	876	1.7	87,640.29	2,916,915	64	4,064,867.18[2]	154,006,151	45,912	2.6

whole year rather than on the actual number shown, which is at the end of the fiscal year.


BRITISH COLUMBIA POWER COMMISSION
GRAPH SHOWING INCREASE IN RESIDENTIAL CONSUMPTION AND REDUCTION IN KWH CHARGE TO CUSTOMERS 1946-1952.
MONTHLY CONSUMPTION IN K.W.H.
AVERAGE CHARGE PER K.W.H.
160
140
120
100
80
60
5¢
4¢
3¢
K.W.H. Charge
K.W.H. Consumption
1946-7
1947-8
1948-9
1949-50
1950-51
1951-52


BRITISH COLUMBIA POWER COMMISSION
GRAPH SHOWING INCREASE IN COMMERCIAL CONSUMPTION AND REDUCTION IN KWH. CHARGE TO CUSTOMERS 1946-1952.
MONTHLY CONSUMPTION IN K.W.H.
AVERAGE CHARGE PER K.W.H.
520
510
500
490
480
470
460
450
440
430
420
410
400
390
380
370
360
350
340
330
320
310
300
290
280
270
5¢
4½¢
4¢
3½¢
3¢
2½¢
K.W.H. Consumption
K.W.H. Charge
1946-7
1947-8
1948-9
1949-50
1950-51
1951-52

(3) Some 2 miles below the outlet of the Upper Campbell Lake there is a site where a dam approximately 120 feet high might be built. If adequate water-storage were available at Buttle Lake, 20,000 continuous horsepower could be produced at this site. This potentiality would be destroyed if Upper Campbell Lake were used for storage.

The paramount importance of the Buttle Lake storage and the need for its very early development are therefore clear.

As at March 31st, 1952, the decision of the Comptroller of Water Rights, giving notice of his intention to approve conditionally the Commission's application for permission to store water in Buttle Lake, was the subject of an appeal to the Minister of Lands and Forests. (This appeal was subsequently dismissed.)

Table 3, containing figures for the fiscal years ended March 31st, 1952 and 1951, illustrates the growth made during the period under review.

The Commission has continued the expansion of its facilities as required to meet the growing demand. In June, 1951, the Commission's second major hydro-electric development was brought into service, when the Honourable E. T. Kenney opened the Whatshan plant of 22,500 kilowatts in two units. When required the capacity of this station can be doubled.

The Clowhom Falls hydro plant, to serve the Seechelt Peninsula, was practically completed by the end of the year and will be put in operation as soon as the 63-kv transmission-line is fully built. Electric service in two more areas of the Province will be made available with the construction of systems in Fort St. James and Queen Charlotte-Skidegate during the summer and fall of 1952.

In the distribution field as well there was a continuation of the activity which has been reported each year since the Commission commenced operations. Expansion was particularly marked at Burns Lake, Campbell River, Quesnel, and Terrace, where the combined total of customers increased by 25 per cent during the year. A new power district was established at Ucluelet-Tofino, where over 200 customers received electrical power for the first time.

Sales of power under the provisions of section 21 of the "Electric Power Act" have had the effect of reducing the unit costs of energy to all power districts prior to distribution. Generation and transmission equipment represent large capital expenditures, the charges on which must be carried by the cost of delivered power. Unit costs of energy delivered can best be lowered by increased use of existing facilities, since any saving realized is passed on to the power districts through a decreased wholesale unit charge. To the advantage of all the Commission's customers, this objective is being achieved quite rapidly through the supply of large quantities of energy to the heavy industrial loads on Vancouver Island.

The John Hart plant and connected transmission system now has three such industrial loads. In the fiscal year 1950–51 the revenue from these accounts amounted to 43 per cent of the entire cost of generation (which includes all fixed charges) at the John Hart plant plus the total expense of the Vancouver Island high-voltage transmission and transformation system. For the year just closed, such revenue was 65 per cent of the total expenses.

These contracts have made possible the installation of the present hydro-electric development at Campbell River on a sound financial basis, and have directly benefited the general public served by the Commission. As the revenues from these industrial loads account for a greater proportion of the total production costs in relation to the amount of delivered power consumed by them, their existence tends more and more to reduce costs to the Commission's retail customers.

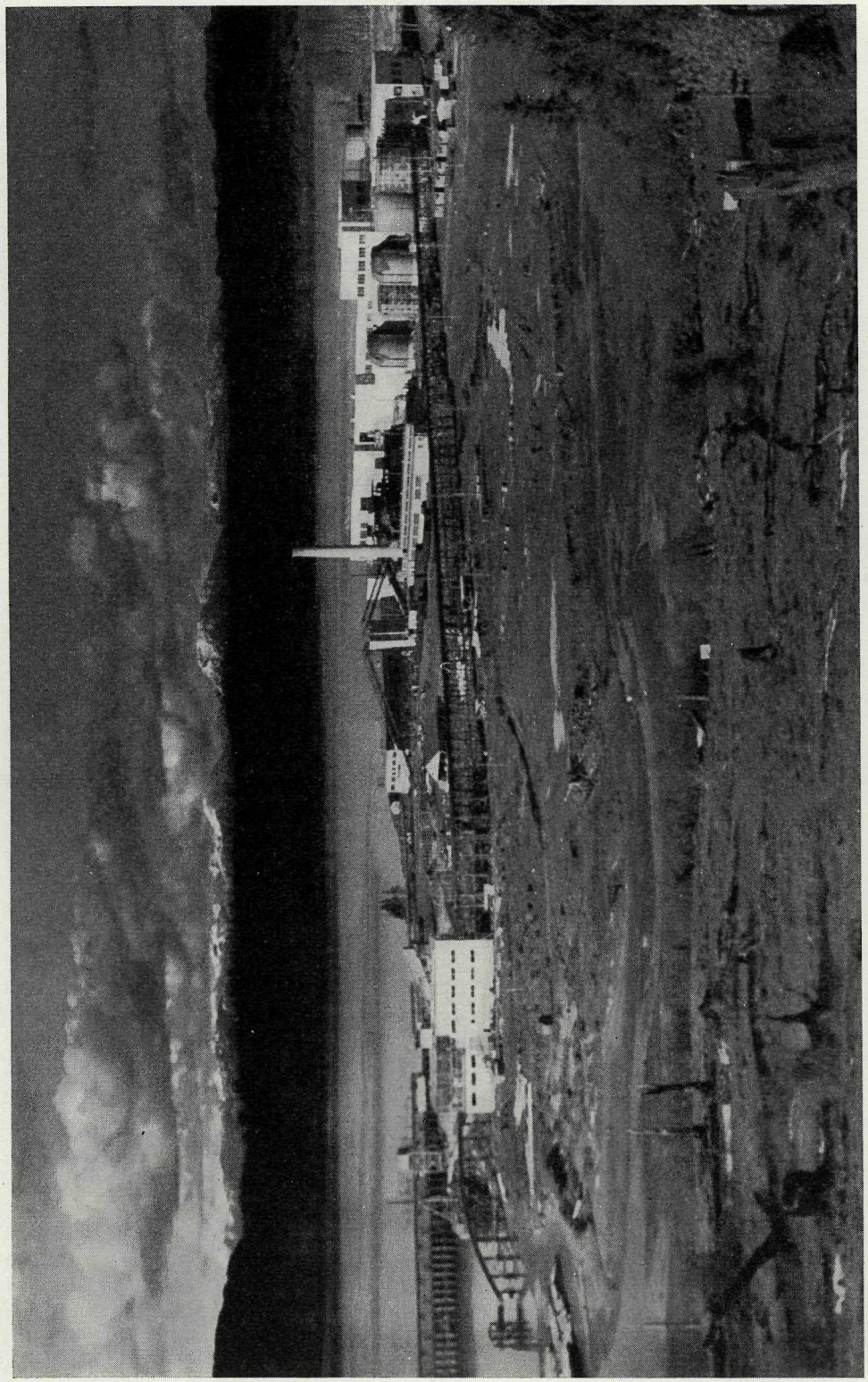
The net operating surplus of $268,980.47 for the year was achieved notwithstanding the large increase in fixed charges on capital plant brought into operation at the beginning of the year. This surplus has been transferred to the rates stabilization reserve to the credit of the various power districts in which it originated (*see* statement 4, page 66).

TABLE 3.—SUMMARY OF GROWTH MADE DURING FISCAL YEARS 1951–52 AND 1950–51

	Year Ended March 31st		Percentage Increase
	1952	1951	
Number of generating units in operation	68	71	—4.2
Generating capacity in kilowatts	123,845	100,350	23.4
Transmission-lines (over 23 kv) in circuit-miles	570	550	3.6
Distribution-lines in circuit-miles	2,541	2,393	6.2
Number of power districts in operation	25	25	----
Energy generated and purchased, in kwh	378,753,308	267,488,496	41.6
Number of customers—			
Residential	38,193	36,548	4.5
Commercial	6,779	6,691	1.3
Power	876	875	.1
Street-lighting	64	60	6.7
Total number of customers	45,912	44,174	3.9
Average monthly consumption in kwh—			
Residential	151	126	19.8
Commercial	518	460	12.6
Power	3,701	3,284	12.7
Average charge per kwh paid by—			
Residential customers	3.1¢	3.3¢	—6.1
Commercial customers	2.8¢	3.2¢	—12.5
Power customers	1.7¢	1.6¢	6.2
All customers	2.6¢	2.8¢	—7.1
Revenue—			
Power districts—			
Electric-energy sales	$4,064,867.18	$3,550,795.78	14.5
Miscellaneous	66,281.94	43,563.40	52.2
	$4,131,149.12	$3,594,359.18	14.9
Special-contract sales	764,080.70	470,282.61	62.7
Total revenue	$4,895,229.82	$4,064,641.79	20.4
Operating expenses—			
Labour	$572,283.00	$535,034.72	7.0
Fuel	439,066.83	376,578.03	16.6
Other direct operating expenses	190,128.27	158,014.20	20.3
Customer accounting and collecting	267,180.44	206,829.90	29.1
Gross revenue assessment (3 per cent)	121,983.57	106,524.89	14.5
Administration and general expense	194,456.59	191,931.23	1.3
Purchased power	47,147.22	99,851.41	—52.9
	$1,832,245.92	$1,674,764.38	9.4
Interest on capital in operation	1,177,975.36	964,966.78	22.1
Total direct expenses	$3,010,221.28	$2,639,731.16	14.0
Operating surplus (excluding provision for reserves)	$1,885,008.54	$1,424,910.63	32.3
Provision for reserves—			
Maintenance and renewals	$878,084.50	$713,004.50	23.2
Sinking fund	649,578.84	482,483.33	34.6
Contingencies	88,364.73	77,009.64	14.7
Totals	$1,616,028.07	$1,272,497.47	27.0
Net operating surplus (transferred to stabilization reserve)	$268,980.47	$152,413.16	------

The dissemination of information concerning the Commission's activities was continued during the year through the co-operation of newspapers, notably the weeklies of the Province, and other periodicals. The publication of the Commission's quarterly house-organ "Progress," which enjoys a wide circulation, was continued without interruption.

This Seventh Annual Report describes in detail the year's activities under the functional headings of "Legal," "Construction," "Operation," "Surveys and Investigations," and "Financial."



Biggest new customer—the Duncan Bay newsprint-mill of Elk Falls Company Limited.

II. LEGAL

1. LEGISLATION

The "Electric Power Act" was amended at the 1952 Session of the Legislature to clarify one of the financial provisions so that moneys borrowed by the Province under the Act and advanced to the Commission to repay temporary loans shall not be considered to reduce the borrowing authority under the Act, the original temporary loans having already done so.

2. COMPENSATION FOR EXPROPRIATED PROPERTIES

The long protracted litigation between Nanaimo-Duncan Utilities Limited and the Commission continued as to certain costs up to May, 1951, when final payment was made to the company.

There is still pending the compensation to be paid to the estate of Silas Freeman Olney, deceased, for the Commission's diesel power-site at Alert Bay. This case is expected to come to trial shortly after the close of the fiscal year.

3. ACQUISITION OF ELECTRICAL PROPERTIES

The assets of Clinton Power and Light Company Limited were expropriated February 1st, 1952, at which time the system served 103 consumers in Clinton. There was mutual agreement as to the compensation.

4. RIGHTS-OF-WAY AND PROPERTY ACQUISITIONS

During the fiscal year the following progress was made in the acquisition of right-of-way easements required for the Commission's main transmission systems:—

(1) Ten of the nineteen outstanding right-of-way claims on the following main transmission-line systems were completed:—

132-kv transmission-line, Whatshan to Vernon:
63-kv transmission-line, Vernon to Kamloops:
63-kv transmission-line, Vernon to Armstrong:
132-kv transmission-line, John Hart plant to Nanaimo and Port Alberni.

These four lines covered a distance of 254.9 miles and crossed 892 parcels of land registered in the names of 341 owners. The nine remaining claims are at this date in various stages of negotiation and completion.

(2) Survey plans covering the right-of-way for the Clowhom Falls-Sechelt 63-kv transmission-line were registered on July 19th, 1951, and the acquisition of the necessary easements by way of right-of-way over Crown and private properties commenced. This line required the acquisition of a right-of-way 100 feet in width over a distance of 22.64 miles, affecting twenty-seven parcels of land registered in the names of ten owners. By the end of the fiscal year all necessary easements were acquired and registered.

(3) Survey plans for the 60-kv transmission-line from the Commission's substation at Nanaimo to the MacMillan-Bloedel pulp-mill at Cedar, Vancouver Island, were completed and submitted for approval by the Land Registry Office. One plan covering the first section of the line has to date been approved, and negotiations for the required easements by way of right-of-way over three of the eight parcels of property privately owned in this section have been completed.

(4) The 132-kv transmission-line from the John Hart generating plant to the Elk Falls Company's sulphate mill at Duncan Bay required the acquisition

of a right-of-way 130 feet in width over a distance of 2.31 miles. The line crosses six parcels of land registered in the names of three owners. To date, settlement with one of the owners has been effected and negotiations with the other two are progressing toward completion.

(5) In the course of the year, right-of-way easements over the thirteen parcels of land crossed by the 60-kv transmission-line from Duncan to Lake Cowichan were acquired and registered.

(6) Survey plans for the 63-kv transmission-line from Monte Creek to Chase were registered on the 10th day of December, 1951, and negotiations with the private-property owners for the necessary right-of-way easements are now under way. This line requires the acquisition of a right-of-way 60 feet in width over a distance of 18.3 miles, affecting thirty-one parcels of property registered in the names of eleven owners.

(7) Preliminary survey plans covering the Armstrong–Salmon Arm 63-kv transmission-line right-of-way were furnished, and the work of contacting the private-property owners, prior to entry, has been completed, as has the cruising of the merchantable timber on the right-of-way.

In rural areas throughout the Province, distribution-line extensions necessitated the acquisition of numerous easements by way of right-of-way over private lands.

The acquisition of some 88.5 acres in Lots 1901, 3153, and 2030, Group 1, New Westminster District, required for the Clowhom Falls dam and plant site, was completed.

The following applications were launched under the "Navigable Waters Protection Act" in connection with overhead and underwater cable crossings of navigable rivers and lakes:—

(1) Underwater cable crossing of Discovery Passage from a point on MacLean Road, Campbell River, to a point in District Lot 209, Sayward District, required for the 6,900/12,000-volt distribution-line to serve the residents of Quadra Island.

(2) Underwater cable crossing of Lower Arrow Lake, West Kootenay District, required for the 6,900/12,000-volt distribution-line to serve the residents of Needles, Fauquier, and Edgewood.

(3) Overhead cable crossings of the numerous bays along the Salmon Arm of Seechelt Inlet, required for the Clowhom Falls–Sechelt 63-kv transmission-line.

(4) Two overhead cable crossings of the South Thompson River, Kamloops Division of Yale District, required for the Monte Creek–Chase 63-kv transmission-line.

Substation-sites were acquired at the following places:—

(1) Dawson Creek, from D. F. Morey.
(2) Canoe, from Saskatchewan Federated Co-operatives Limited.
(3) Salmon Arm, from E. J. Pratt.
(4) Chase, from V. M. Oakland.
(5) Nanaimo, from J. R. and L. N. Hambly.
(6) Sechelt, from A. Crucil.
(7) Duncan Bay, from Elk Falls Company Limited.
(8) Westbank, from Crown, Provincial.
(9) Kamloops, from Department of Public Works, Provincial.
(10) Dawson Creek, from Crown, Provincial.

Diesel power-house sites were acquired at the following places:—

(1) Houston, from Houston Planer Company Limited.
(2) Queen Charlotte City, from Crown, Provincial.
(3) Fort St. James, from Crown, Provincial.
(4) Quesnel (addition to site), lease from Pacific Great Eastern Railway Company.

5. PROPERTY SALES

The following lands and buildings located thereon, which were surplus to requirements, were disposed of:—

(1) Lots 24 and 25, Block 5, Town of Golden.
(2) Lots 25 to 32, Block 76, Plan 1054, Village of Smithers.
(3) Block 12 of District Lot 14, Group 1, Map 187, Kamloops Division of Yale District.

The Commission's lands and plants at the Villages of Hope and Lillooet were sold to British Columbia Electric Company Limited pursuant to the provisions of the "Hope and Lillooet Electrical Systems Sale Act."

6. CONTRACTS

Contracts have been drawn and settled covering all major construction projects undertaken during the year, together with numerous contracts for the supply of plant and equipment required in connection therewith.

Apart from ordinary service contracts, agreements were completed for the supply of industrial power in power districts and for the supply of street-lighting service in certain incorporated villages and unorganized communities.

On March 14th, 1951, an agreement was concluded with Canadian Collieries (Dunsmuir) Limited, Wellington Colliery Company Limited, and National Trust Company Limited. This provided for the purchase by the Commission, early in 1953, of the colliery companies' hydro-electric plant on the Puntledge River, the requisite water licences thereon, and certain other real and personal property.

7. WATER LICENCES

Water licences held by the Commission for storage and diversion purposes on the following river and lakes were cancelled at the Commission's request, as of June 30th, 1951: (1) Conditional Licence No. 1474, Barriere River; (2) Conditional Licence No. 7934, East Barriere Lake; and (3) Conditional Licence No. 11385, North Barriere Lake.

Right-of-way Permit No. 537, issued in conjunction with Conditional Licence No. 7934, was cancelled on June 30th, 1951.

Permit No. 1026A, covering occupation of Crown lands, North Barriere Lake, was cancelled on March 21st, 1952.

The following right-of-way permits, formerly held in conjunction with Conditional Licence No. 1474 and covering transmission-lines, have now been noted under Conditional Licence No. 18525, Whatshan Diversion: (1) Permit No. 594; (2) Permit No. 611; (3) Permit No. 996; and (4) Permit No. 1303.

To meet the anticipated demand for power on Vancouver Island, and acting upon the advice of its consulting engineers as to source, the Commission applied to the Comptroller of Water Rights, under the provisions of the "Water Act," to store water in Buttle Lake. Objections having been filed to the granting of the application, the Comptroller held a public inquiry into the application and the objections thereto at Courtenay and Victoria between August 8th and September 8th, 1951.

On November 5th, 1951, the Comptroller handed down his decision, giving notice of his intention to issue a conditional licence to the Commission for the right to store water in Buttle Lake in accordance with its application, but subject to certain conditions. The conditions provide for the harvesting of timber within the area that would be flooded, the clearing and disposal of debris, the restocking of fish in the lake up to a specified limit and cost, the maintenance of water-levels, the construction of a road and of camp-sites, and the supply to the Comptroller of all plans, profiles, reports, etc., that he may require. It is a further condition that the Commission shall not begin clearing or construction of any portion of the proposed works until such time as the proposed dam-site at Buttle Lake

has been fully investigated by drilling, and plans for clearing and construction approved by the Comptroller.

Those objecting to the granting of such a licence made an appeal from this decision, under the provisions of the "Water Act," to the Minister of Lands and Forests.

The preliminary question of jurisdiction was heard by the Minister, who, by a decision dated March 13th, 1952, held that the Comptroller of Water Rights had jurisdiction to make the order referred to above. The Minister also found that he had jurisdiction to hear the appeal on its merits, which hearing is expected in April, 1952.

8. INSURANCE

Insurance coverages on all phases of the Commission's operations were maintained in force. There were certain rearrangements and deletions of some types of coverage effected in order to meet the needs of the Commission.

No major claims under any of the coverages were experienced during the year's operations. There were, however, a number of small claims under the fleet and property-damage coverages which were reported and satisfactorily settled.

III. CONSTRUCTION

1. PRODUCTION PLANT

Alert Bay

The diesel power-house was enlarged by the addition of a bay on the north end to permit an increase in generating capacity. The installation of a fourth unit, transferred from Westbank and having a capacity of 250 kw, was completed, with exception of a switchboard panel not delivered by the end of the fiscal year. Total plant capacity is now 800 kw in four units.

Barriere

When power from Whatshan became available in the Kamloops area, the Barriere generating-station was removed from service, as being no longer economical to maintain. The plant is being dismantled and the machinery will be stored for possible use elsewhere.

Burns Lake

The power-house building was extended by the construction of an additional bay, with provision for further enlargement in the future. A 250-kw diesel generating unit, obtained by transfer from Smithers, was installed in the new bay, increasing the plant capacity to 700 kw in four units.

Clinton

Two 50-kw portable diesel generating units, from Westbank and Tofino, were installed immediately upon acquisition of the Clinton property in February, 1952. The generating equipment previously in use was not acquired, being deemed unsuitable for the Commission's requirements. A third 50-kw generating unit was in process of installation at the end of the fiscal year.

Clowhom Falls

Construction of a hydro-electric generating-station at Clowhom Falls, which commenced in September, 1950, continued throughout 1951. Delivery of major items of equipment, including turbines and generators, fell behind schedule late in the year. Heavy equipment was unloaded during November and placed during December, 1951. Switchgear was received and placed during the following month. Dryout runs were carried out during March, 1952, and by the end of the month and close of the fiscal year the plant was ready for full-load tests.

The initial stage of this development, which is now approaching completion, consists of two hydro-electric units, each of 1,500 kw capacity.

Dawson Creek

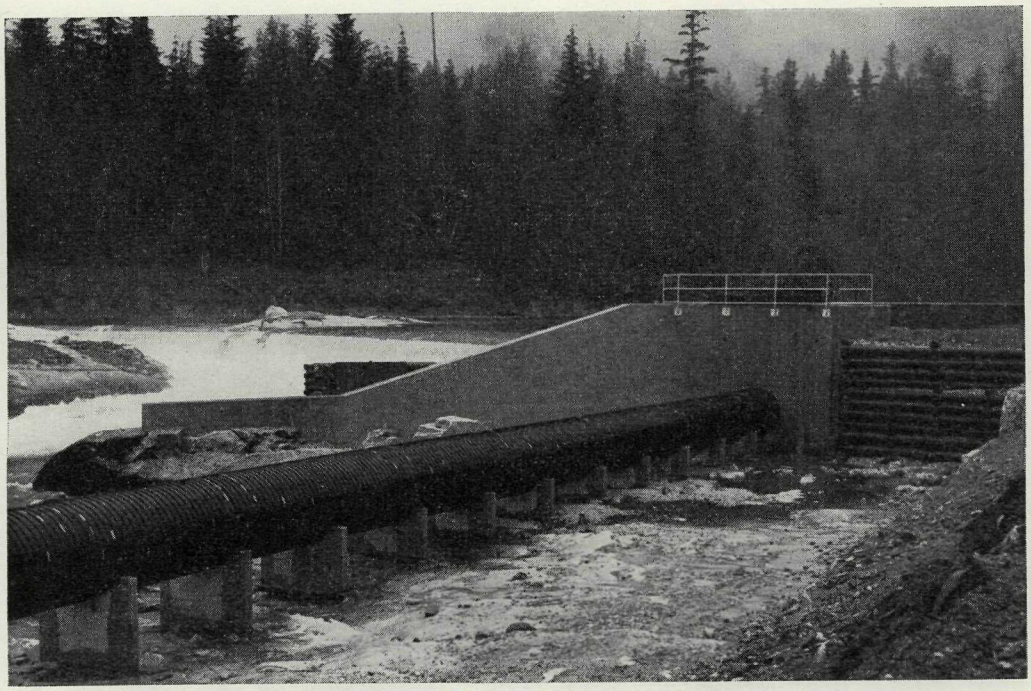
A 200-kw generating unit which had outlived its usefulness was removed. At the end of the year, replacement by a new unit of 600 kw capacity and capable of dual-fuel operation was complete and awaiting its test run by the manufacturers, bringing the available capacity to 2,280 kw with five units installed.

Hazelton

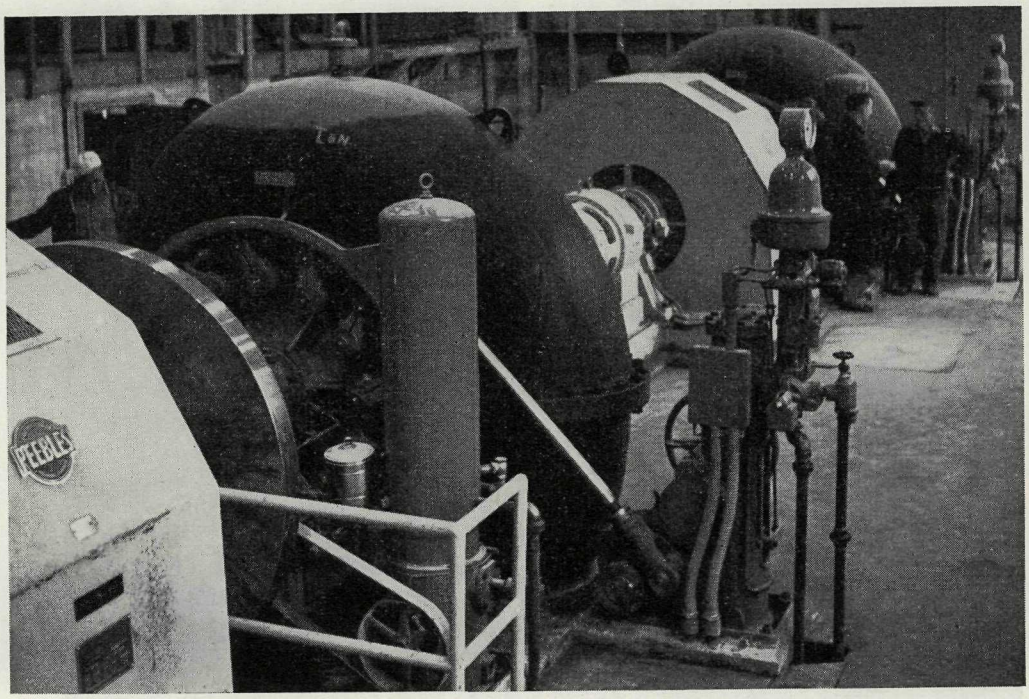
Installation of a 100-kw portable generating unit, by transfer from Comox Valley, was nearing completion at the end of the year. Resulting plant capacity will be 300 kw.

Houston

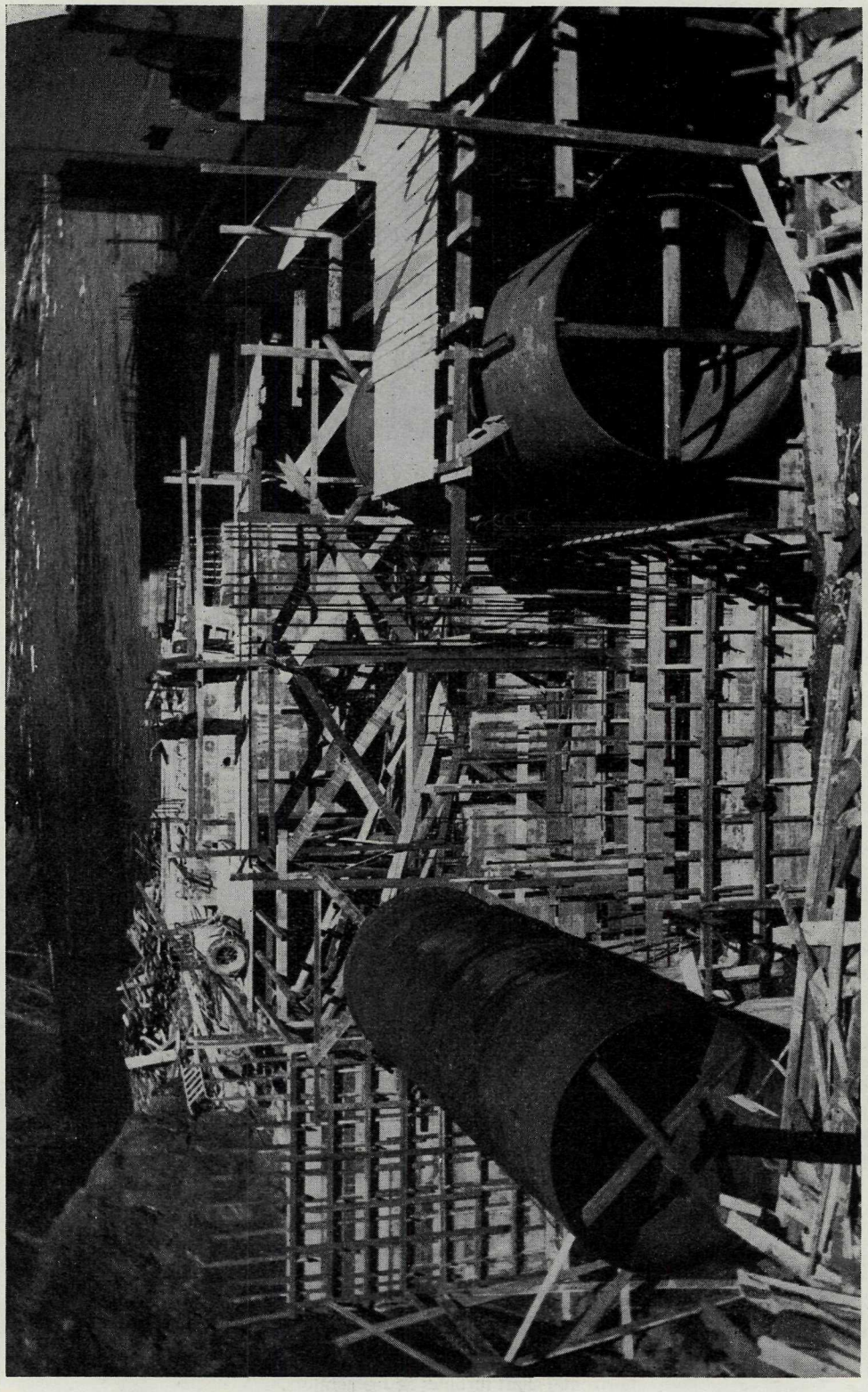
Increase of capacity from 90 kw to 190 kw was in progress as the year closed with the installation of a 100-kw portable unit from Comox Valley.



Concrete dam and spillway and wood-stave pipe-line at Clowhom Falls Development.



Interior of power-house at Clowhom Falls Development showing two horizontal-shaft turbines and generators.



John Hart Development expansion, showing formwork for power-house extension with penstock thimbles in place.

John Hart

The third and final phase of the John Hart Development was commenced during the year. This programme consists of an addition to the power-house building; the construction of a third pipe-line, surge-tank, and penstock; installation of turbines and generators, Nos. 5 and 6, each of 20,000 kw capacity; and two additional transformer banks, each of 25,000 kva capacity, with the necessary additions to the switching-station.

The general contract was awarded to Campbell-Bennett Company Limited in September, 1951, with construction commencing in October. At the end of the fiscal year, excavation for the wood-stave pipe-line was complete, concrete work had commenced on the surge-tank footings, and had progressed on the foundations for the two turbines.

Deliveries of generators, turbines, transformers, switchgear, and other equipment are scheduled for summer and autumn, 1952, with a view to completion by January, 1953.

Lake Cowichan

Availability of power from the John Hart Development made possible the removal from service of the 75-kw diesel generating unit which was acquired with the property.

Merritt

A second diesel generating unit of 250 kw was completed and placed in service, bringing the plant capacity to 500 kw in two units. Completion of the third unit awaits arrival of its 250-kw alternator, the prime mover having been installed.

Quesnel

Two 600-kw diesel-driven generating units, purchased new, were installed in an addition to the power-house, increasing the capacity by 1,200 kw to a total of 2,650 kw. These new machines are similar to those installed in 1950–51 and are readily convertible to gas fuel should such become available.

Smithers

Installation of a 560-kw diesel generating unit, commenced during 1950–51, was completed, and a 250-kw unit was removed. The capacity of the plant is now 1,370 kw in three units.

Terrace

An addition to the power-house building was constructed, permitting the installation of two additional generating units. One unit, 600 kw, was purchased new, and the other, 250 kw, was transferred from Quesnel. These additions and the removal of one 50-kw generating unit resulted in a net increase of 800 kw, the total capacity now being 1,150 kw in four units.

Vanderhoof

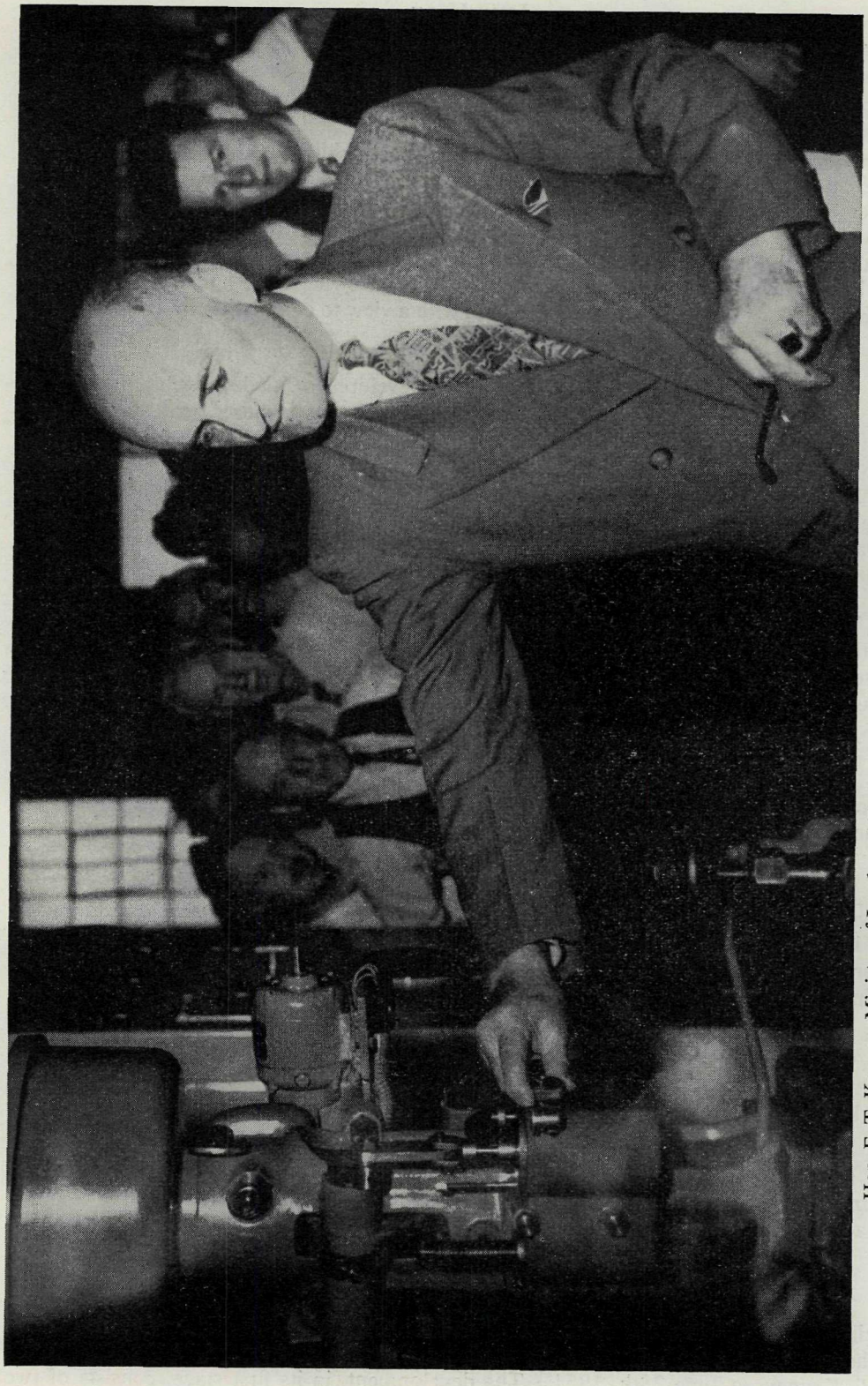
Capacity of the plant was increased 200 kw by the removal of a 50-kw diesel generating unit and the installation of a 250-kw unit from Smithers. There is now available 550 kw in three units.

Westbank

Completion of the cable across Okanagan Lake made it possible to obtain hydro-electric power from the West Kootenay Power and Light Company Limited at Kelowna and to remove from service six diesel units totalling 740 kw.

Whatshan

The first generating unit of the Whatshan Development commenced operation on April 29th, 1951, when it was parallelled with the Shuswap plant. Following completion of the second unit, the Whatshan Development was officially opened by the Honourable E. T. Kenney on June 28th, 1951. The development, in its first stage, consists of two hydro-electric units, each of 11,250 kw capacity.



Hon. E. T. Kenney, Minister of Lands and Forests, officially opened Whatshan generating-station June 28th, 1951, sending power to North Okanagan and Kamloops areas.

TABLE 4.—GENERATING CAPACITY IN OPERATION AT BEGINNING AND END OF THE FISCAL YEAR, TOGETHER WITH ADDITIONS AND REMOVALS MADE DURING THE YEAR

Plant Location	Type[1]	Capacity at March 31, 1951		Installations During Year		Removals During Year		Capacity at March 31, 1952	
		Number of Units	Total Capacity in Kw	Number of Units	Total Capacity in Kw	Number of Units	Total Capacity in Kw	Number of Units	Total Capacity in Kw
Alert Bay	D	3	550	1	250	----	----	4	800
Athalmer	D	2	450	----	----	----	----	2	450
Barriere	H	2	1,500	----	----	2	1,500	----	----
Burns Lake	D	3	450	1	250	----	----	4	700
Clinton	D	----	----	2	100	----	----	2	100
Dawson Creek	D	5	1,880	1	600	1	200	5	2,280
Golden	D	3	450	----	----	----	----	3	450
Hazelton	D	2	200	----	----	----	----	2	200
Hope[2]	D	1	200	----	----	1	200	----	----
Houston	D	3	90	----	----	----	----	3	90
John Hart	H	4	80,000	----	----	----	----	4	80,000
Kamloops	S	4	2,700	----	----	----	----	4	2,700
Lake Cowichan	D	1	75	----	----	1	75	----	----
Lillooet[2]	D	3	250	----	----	3	250	----	----
Merritt	D	1	250	1	250	----	----	2	500
Nakusp	HD	2	270	----	----	----	----	2	270
Quesnel	D	3	1,450	2	1,200	----	----	5	2,650
Sechelt	HD	5	810	----	----	----	----	5	810
Shuswap Falls	H	2	5,200	----	----	----	----	2	5,200
Smithers	D	3	1,060	1	560	1	250	3	1,370
Terrace	D	3	350	2	850	1	50	4	1,150
Ucluelet-Tofino	D	3	300	----	----	----	----	3	300
Vanderhoof	D	3	350	1	250	1	50	3	550
Westbank	D	6	740	----	----	6	740	----	----
Whatshan	H	----	----	2	22,500	----	----	2	22,500
Williams Lake	D	4	775	----	----	----	----	4	775
Totals		71	100,350	14	26,810	17	3,315	68	123,845

[1] D=diesel-electric; H=hydro-electric; S=steam-electric.
[2] Hope and Lillooet plants were sold in June, 1952.
Capacities are based on name-plate ratings converted to kw at 80 per cent power factor.

2. TRANSMISSION PLANT

VANCOUVER ISLAND SYSTEM

The 60-kv substation at Ladysmith, of 5,000 kva capacity, was completed during the year and placed in service.

Energy from the John Hart Development was made available to the Lake Cowichan Power District by the completion of a 60-kv transmission-line from Duncan to Lake Cowichan; this work was commenced in 1950. The line is constructed for 60-kv operation but is at present in service at 23 kv.

Automatic reclosing equipment was installed on the Harmac-line circuit-breakers at the Nanaimo substation.

Construction of 2.3 miles of 132-kv transmission-line to supply energy to Elk Falls Timber Company Limited at Duncan Bay was completed. This is a double-circuit line on wood-pole H-frame structures.

Two 20,000-kva three-phase transformers, 132/13.8 kv with on-load tap changers, were received during February, 1952, and were installed in the newly constructed substation terminating the 132-kv extension at Duncan Bay. This structure, together with necessary switching and control additions at the John Hart Development, approached completion and will be energized very early in the next fiscal year. Service to the Campbell River Power District will also be supplied from this substation.

Necessary materials and equipment were ordered for the construction of a 60-kv transmission-line from Nanaimo with terminal substation at Parksville. This addition has been planned to improve service and provide for system growth in the area between Craig's Crossing and Bowser. Construction is scheduled for the summer of 1952.

To meet the requirements of a contract covering supply of energy to Canadian Collieries (Dunsmuir) Limited, two 5,000-horsepower synchronous motors, together with associated control-gear, were ordered for installation at Puntledge during late 1952 and early 1953. These motors are to be mechanically connected to the existing 25-cycle generators in the Puntledge power-house.

Two 16,000-kva three-phase transformers and other material were ordered for installation in a projected substation at Harmac (MacMillan & Bloedel) by mid-1953. The design for a 132-kv line from Nanaimo with the necessary additions to the Nanaimo substation was also commenced.

Transformers were ordered, for 1953 delivery, to provide for doubling the present 15,000-kva capacity of the 132-kv substation at Alberni.

Vernon-Kamloops

Right-of-way surveys were completed and material ordered for 63-kv transmission-lines from Armstrong to Salmon Arm and from Monte Creek to Chase. Construction is scheduled for the summer of 1952. Transformers and other equipment have been ordered for 63-kv substations at Mission Hill (Vernon), Salmon Arm, Enderby, Canoe, and Chase. These substations will be constructed in 1952 to receive energy from the projected 63-kv lines and will improve present service as well as permit future load growth.

The 1,500-kva 63-kv substation at Armstrong, construction of which was commenced last year, was completed and placed in service.

A 1,000-kva 60-kv substation at Kelowna was completed and placed in operation. This station receives energy transmitted over West Kootenay Power and Light Company Limited's lines for transformation and delivery to Peachland-Westbank Power District by means of the under-water cable crossing Okanagan Lake.

Radio communication was designed and installed for the Vernon-Kamloops system.

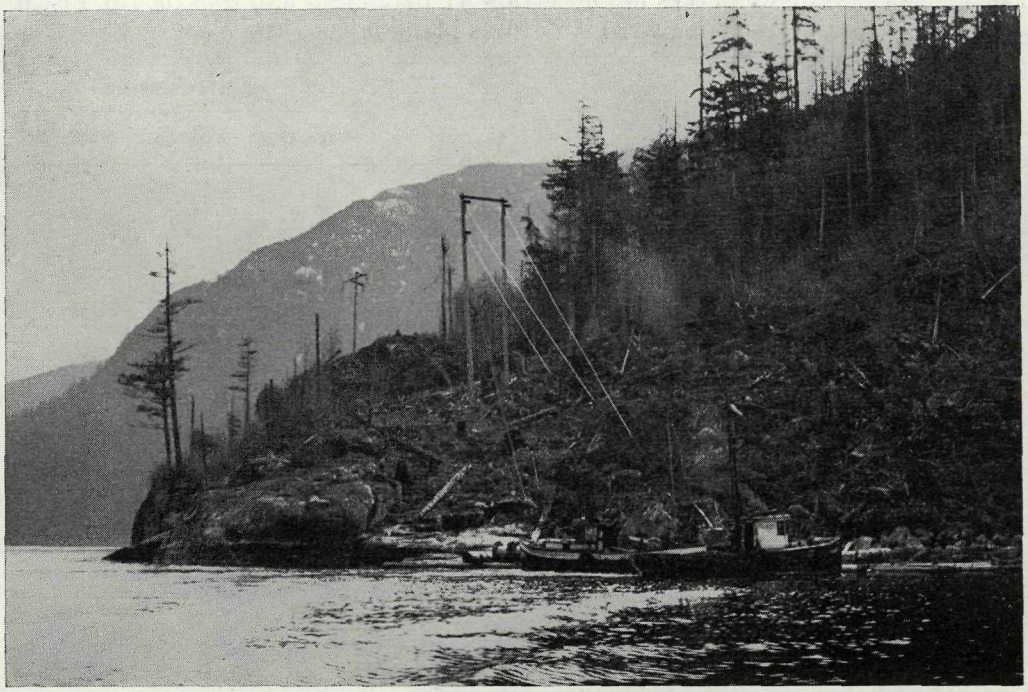
Whatshan-Vernon

The 132-kv transmission-line from Whatshan to Vernon, together with its terminals, was placed in service on April 29th, 1951. A carrier current communication system was installed and is in operation.

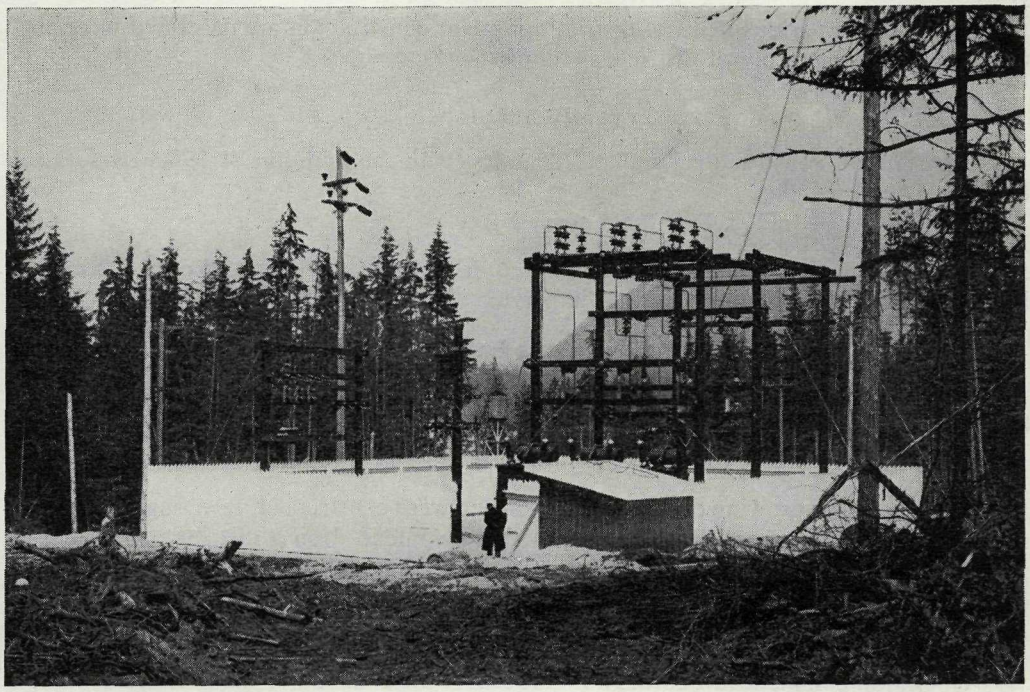
Clowhom-Sechelt

The Sechelt terminal of the Clowhom-Sechelt transmission-line, a 1,500-kva substation, 63–6.9/12 kv, was completed and ready for service at the end of the fiscal year. A radio communication system was installed and put in operation.

The 63-kv transmission-line, constructed during the year across 22 miles of mountainous and heavily timbered country from Clowhom Falls to Sechelt, approached completion and is expected to be in service early in the new fiscal year.



Transmission-line from Clowhom Falls to Sechelt zigzags along rugged shore-line of Salmon Arm. Most of it had to be built from boats and rafts, as illustrated above.



New substation at Sechelt end of transmission-line from Clowhom Falls Development.

TABLE 5.—TRANSMISSION-LINES IN OPERATION AT BEGINNING AND END OF THE FISCAL YEAR, TOGETHER WITH ADDITIONS MADE DURING THE YEAR

Location	Voltage, Kv	Length in Circuit-miles		
		March, 1951	Additions	March, 1952
Vancouver Island system—				
John Hart plant to Nanaimo and Alberni	132	207.0	.....	207.0
John Hart plant to Duncan Bay	132	.....	4.6	4.6
Nanaimo to Duncan	60	32.6	.....	32.6
Nanaimo to Harmac sulphate mill	60	10.0	.....	10.0
Duncan to Lake Cowichan	60	.....	15.7	15.7
System totals	.....	249.6	20.3	269.9
Whatshan-Vernon-Kamloops system—				
Whatshan plant to Vernon	132	75.0	.....	75.0
Shuswap plant to Winfield	63	42.7	.....	42.7
Shuswap plant to Canoe	33	61.0	.....	61.0
Kamloops to Barriere	44	45.0	.....	45.0
Vernon to Kamloops	63	69.5	.....	69.5
Kamloops-Vernon line to Armstrong	63	6.9	.....	6.9
System totals	.....	300.1	.....	300.1
Grand totals	.....	549.7	20.3	570.0

The 207 circuit-miles from John Hart plant to Nanaimo and Alberni is a double-circuit line on steel towers. The 4.6 circuit-miles from John Hart plant to Duncan Bay is a double-circuit line on wood poles. All other transmission-lines are single circuit on wood poles.

3. DISTRIBUTION PLANT

The distribution system was increased during the year by 190.3 circuit-miles, as compared with 431.2 miles built during the previous year. In the period under review a total of 3,715 new services were added and 377 new street-lights were installed. Two new power districts, Clinton and Ucluelet-Tofino, commenced operation during the fiscal year.

In detail the various items of distribution-plant construction are described in respect of each of the various power districts as follows:—

ALBERNI

Distribution construction totalled 2.8 miles, with the addition of 198 new services and 27 new street-lights.

ALERT BAY

Forty-six new services were installed, requiring the construction of only 0.2 mile of line. Four new street-lights were put in service.

BURNS LAKE

Services were increased by 128, and 1.2 miles of primary and secondary line were built.

CAMPBELL RIVER

In this rapidly growing district 7 miles of line were constructed, resulting in 262 new services and 17 new street-lights. Construction commenced on a distribution system to serve the southern portion of Quadra Island. This system will be supplied by submarine cable from Vancouver Island.

CLINTON

Operation commenced February 1st, 1952. Up to the end of the fiscal year no new construction work was undertaken.

Comox Valley

Lines were extended to the south to bring service to those residing in the Buckley Bay, Fanny Bay, and Mud Bay areas. One hundred and eighty-six new services resulted from the construction of 20.4 miles of distribution circuits. Three street-lights were added.

Dawson Creek

Nine new street-lights were installed and 139 new services were run; 3.4 circuit-miles of line were built.

Golden

Nineteen new services and six street-lights were added and 0.2 mile of line constructed.

Hazelton

No additional line was constructed, but 27 services were installed from existing lines. A street-light system of 24 units was brought into operation.

Houston

Fourteen new services were installed and 1.7 miles of line were built.

Kamloops

Two hundred and sixty-four new services were added and 20.7 miles of line were constructed. Seventy street-lights were installed.

The 12-kv loop, commenced in an earlier year, was completed. This permitted the release of transformers at Fruitlands which, on retirement of the generating-station at Barriere, were installed as a step-up bank to serve the 44-kv line to Barriere.

At Lorne Street, new 12-kv metal-clad switchgear was installed in connection with retirement of the Kamloops steam plant and as part of the long-range plans for 12-kv primary service to the Kamloops area.

Pending delivery in 1953 of a unit substation, a 2,500-kva transformer bank, 11.5/2.3 kv, was installed on the substation-site at Sixth Avenue and Columbia Street.

Lake Cowichan

Street-lights were increased by 32. New construction totalled 1.7 miles of line and 62 new services.

Lake Windermere

With the minor additions of one-half mile of line to the system constructed in 1949–50, 54 new services were installed.

Merritt

Seven additional street-lights and 25 new services were installed. One and one-tenth miles of distribution circuits were built.

Nakusp

The district was enlarged by construction of 37 miles of lines, 153 new services, and installation of 6 street-lights. The major portion of line-construction took place in the Needles area, where service was made available to Needles, Edgewood, and by submarine cable to Fauquier.

Nanaimo-Duncan

New services added totalled 684; new street-lights, 113. These additions were achieved with only 16.9 miles of new distribution-line construction.

Considerable effort was directed toward the maintaining and improving of a high level of service. At Nanaimo a 3,750-kva substation of modern unit design was installed at Fraser and Fitzgerald Streets, as the first step in a general distribution plan for the

Nanaimo area. Further steps include the installation of additional unit substations at load centres, together with conversion of distribution circuits from 2,300 volts to 2.3/4 kv. The new substation is designed for 2.3/4-kv operation. A 23-kv circuit was constructed to serve the substation.

At Ladysmith a new substation of 3,000-kva was placed in operation, and reconstruction of the Ladysmith distribution system was commenced. This reconstruction involves conversion to 2.3/4 kv to provide required additional capacity.

The Chemainus distribution system was rebuilt and converted to 2.3/4 kv.

Work commenced on a new 23-kv circuit and distribution substation at Parksville.

Exclusive of new line-construction, existing distribution transformer capacity was increased by 2,200 kva and improvements involving 18 miles of circuits were effected.

North Okanagan

Fifteen and nine-tenths miles of new circuits were built; 441 services and 17 street-lights were added.

Major system improvements were effected as follows: The distribution plant in Enderby was rebuilt; the 6,900-volt line to Lumby and Lavington was converted to 6.9/12 kv; the West Salmon Arm 6,900-volt line was reconstructed; the Lumby distribution system was rebuilt and converted in voltage, as was the Armstrong rural area. The rebuilding of the lines serving the Okanagan Landing area was approximately half completed.

Peachland-Westbank

The 6.9/12-kv circuit from Kelowna to Westbank, including the cable crossing of Okanagan Lake, was completed and placed in service. In all, 10.3 miles of new circuit were built and 42 new services installed.

Quesnel

Two hundred and twenty-eight new services were installed in the rapidly expanding area surrounding the Village of Quesnel. Two miles of lines were built and four street-lights added. As part of a plan of distribution to keep pace with system growth, two circuits were converted from 2.3 kv to 6.9/12 kv.

Sechelt

Line-construction amounted to 4.6 miles; 126 new services were installed.

Smithers

Seventy-eight new services were installed, 4.4 miles of line constructed, and two street-lights were added.

Terrace

The rapid growth of this district called for construction of 203 new services, 6.7 miles of distribution circuits, and 9 street-light units.

Ucluelet-Tofino

New construction and the rehabilitation of distribution facilities purchased from War Assets Corporation, which had previously served Department of National Defence installations only, required 29.2 miles of distribution-line, 228 services, and 20 street-lights. The system was energized and service to the communities commenced on June 6th, 1951.

Vanderhoof

Seventy new services were added to the system, together with four-tenths of a mile of distribution-line.

Williams Lake

Two miles of line were built; 38 new services and 7 new street-lights were installed.

TABLE 6.—DISTRIBUTION-LINE CONSTRUCTION DURING FISCAL YEAR ENDED MARCH 31ST, 1952

Power District	Voltage, Kv	Miles of Line Added			New Services Added	Street-lights Added
		Primary	Secondary	Total		
Alberni	6.9	0.5				
	2.3	0.3				
		—— 0.8	2.0	2.8	198	27
Alert Bay	2.3		0.2	0.2	46	4
Burns Lake	2.3	0.6	0.6	1.2	128	-----
Campbell River	13.8	3.8				
	2.3	2.0				
		—— 5.8	1.2	7.0	262	17
Clinton	----------	-----	-----	-------	-----	-----
Comox Valley	13.8	16.3				
	2.3	3.1				
		—— 19.4	1.0	20.4	186	3
Dawson Creek	6.9/12.0	1.8				
	2.3/4	1.4				
		—— 3.2	0.2	3.4	139	9
Golden	----------	-----	0.2	0.2	19	6
Hazelton	----------	-----	-----	-------	27	24
Houston	6.9/12.0	1.5	0.2	1.7	14	-----
Kamloops	2.3	7.0				
	11.5	9.3				
		—— 16.3	4.4	20.7	264	70
Lake Cowichan	2.3/4	0.1				
	2.3	0.8				
		—— 0.9	0.8	1.7	62	32
Lake Windermere	----------	-----	0.5	0.5	54	-----
Merritt	2.3	0.8	0.3	1.1	25	7
Nakusp	6.9/12.0	32.0	5.0	37.0	153	6
Nanaimo-Duncan	2.3	9.0				
	6.9	0.8				
	4.0	1.6				
		—— 11.4	5.5	16.9	684	113
North Okanagan	6.9/12.0	9.1				
	2.3	1.1				
		—— 10.2	5.7	15.9	441	17
Peachland-Westbank	6.9/12.0	7.2				
	2.3/4.0	0.7				
		—— 7.9	2.4	10.3	42	-----
Quesnel	2.3	1.4	0.6	2.0	228	4
Sechelt	6.9/12.0	1.9	2.7	4.6	126	-----
Smithers	2.3	1.5				
	6.9/12.0	2.0				
		—— 3.5	0.9	4.4	78	2
Terrace	2.3	2.6	4.1	6.7	203	9
Ucluelet-Tofino	6.9/12.0	25.2	4.0	29.2	228	20
Vanderhoof	2.3	0.1	0.3	0.4	70	-----
Williams Lake	2.3/4.0	1.3	0.7	2.0	38	7
Totals	----------	146.8	43.5	190.3	3,715	377

IV. OPERATION

1. PRODUCTION

Operation of the new hydro-electric generating-station at Whatshan and its transmission-line connection with the North Okanagan-Kamloops transmission system was initiated on May 7th, 1951. An adequate source of power for the North Okanagan and Kamloops Districts was thereby assured, and it became possible to dispense with the operation of the Barriere hydro-electric and the Kamloops steam-electric generating-stations, with concurrent economic benefits.

Power purchased from the West Kootenay Power and Light Company Limited at Kelowna and transmitted across Okanagan Lake by submarine cable replaced diesel-engine-produced power supplying the Peachland-Westbank District after July 18th, 1951. The diesel generating-station at Westbank was shut down immediately, with equipment slated for removal to other areas.

Two diesel generating-stations were added to the Commission's system during the year. By purchase from the War Assets Corporation a 300-kw diesel plant, located near Tofino, on Vancouver Island, was acquired and reconditioned to serve the Ucluelet-Tofino Power District. Operation of this station was first undertaken on June 6th, 1951.

The Clinton Power and Light Company disposed of its distribution system and a building, employed by the company as a diesel generating-station, to the Commission. Surplus diesel-electric equipment was installed in this building and the plant was placed in operation on February 1st, 1952.

As will be noted from Table 9, the production of energy was increased by over 40 per cent. Purchase of power decreased by 76.3 per cent during the year.

The John Hart generating-station production was equivalent to a load factor of 56.5 per cent for the year.

The generating-station at Shuswap Falls was unavailable after March 13th, 1952, to permit of clearing the forebay of silt and debris which had reached depths of 25 feet in front of the dam. An examination of the strata uncovered showed that the annual deposit varied enormously year by year, from a few inches to several feet in depth.

Removal was effected by clearing the trash sluices and then by flushing the silt through these sluices. The services of a diver were required to clear stumps and logs from the sluice intakes during the sluicing process.

The turbines at the John Hart generating-station were unwatered for inspection, no signs of cavitation being observed. The pipe-line and penstock supplying units Nos. 3 and 4 at this station was unwatered to permit of adjustments to the penstock pivot valves. All switchgear in the step-up transformer and switching-station was inspected and adjusted where required. This work included the processing of all transformer and switch oil.

Clearing operations around Lower Campbell Lake were continued, and all but a relatively small amount of timber on the highest levels was cut. It became necessary to add two nautical bulldozers to the equipment in use on the lake in order to cope with the large masses of debris set adrift by the operation of the lake at new and higher elevations.

The work of landscaping the townsite at the John Hart generating-station was extended to include the planting of nearly 250 trees and flowering shrubs.

BRITISH COLUMBIA POWER COMMISSION

GRAPHIC REPRESENTATION OF TOTAL YEARLY PRODUCTION OF ELECTRICAL ENERGY FOR THE 6 YEAR PERIOD 1946-1952, SHOWING PROPORTIONS PRODUCED BY COMMISSION PLANTS AND PURCHASED POWER.

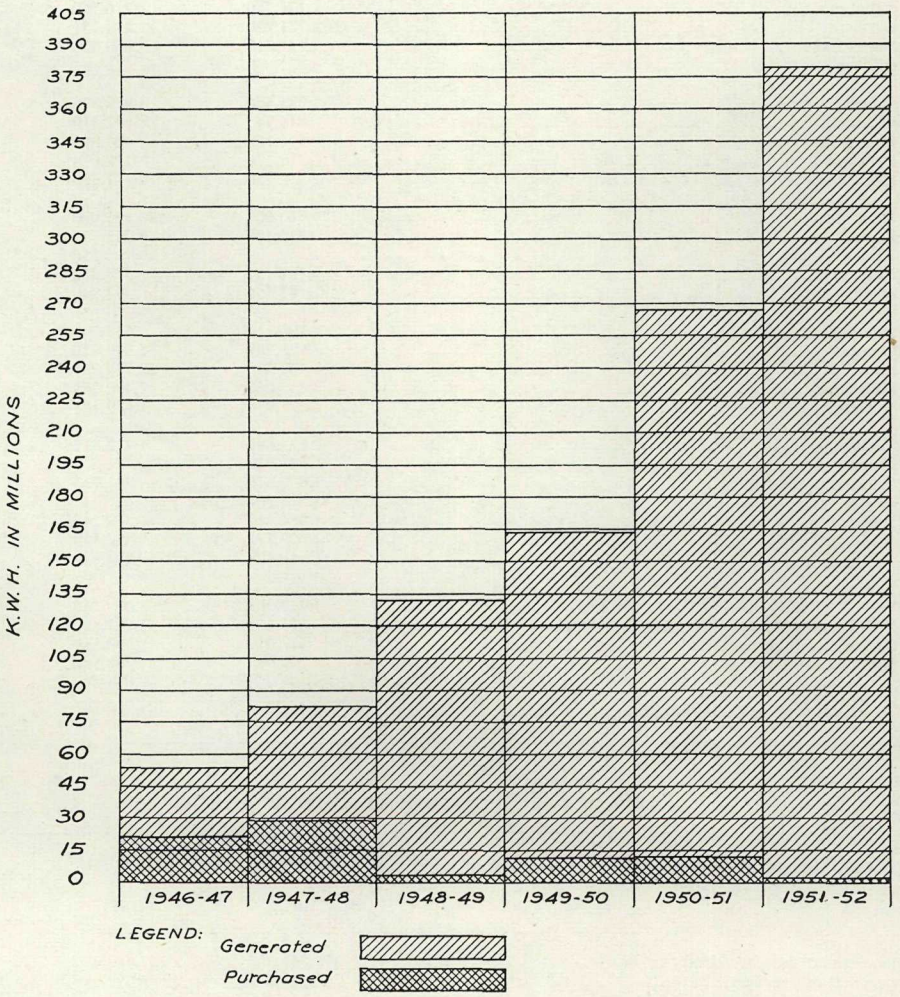
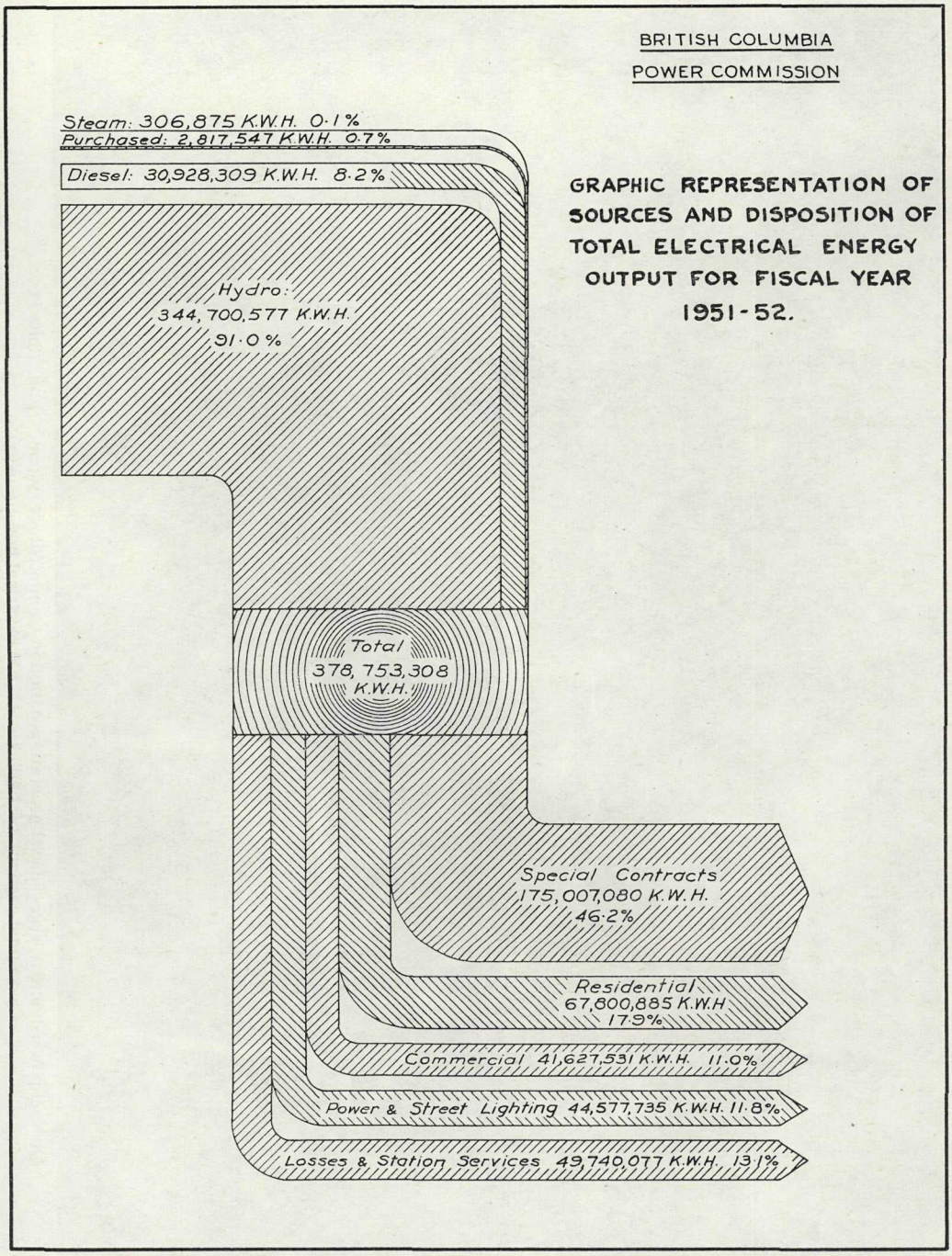


TABLE 7.—POWER GENERATED AND PURCHASED (KWH)

Source	Fiscal Year Ended March 31		Percentage Increase
	1952	1951	
Generated—			
Alert Bay	2,108,275	1,414,710	49.0
Athalmer	1,377,750	776,550	77.5
Barriere	2,721,220	11,434,751	—76.2
Burns Lake	1,647,160	900,620	83.0
Clinton	22,000	------	------
Dawson Creek	5,095,456	3,989,820	27.6
Golden	810,745	692,510	17.1
Hazelton	577,120	405,960	42.1
Houston	276,176	118,074	134.0
Hope	750	7,300	—89.8
John Hart	284,110,000	184,936,000	53.7
Kamloops	311,140	3,223,770	—90.5
Lake Cowichan	------	250	------
Lillooet	121,551	588,350	—79.4
Merritt	1,187,550	273,240	334.5
Nakusp	708,210	657,708	7.7
Quesnel	4,978,749	2,837,930	75.5
Shuswap Falls	13,440,840	33,774,280	—60.1
Smithers	3,212,060	2,499,369	28.5
Sechelt	2,295,939	1,659,188	38.4
Terrace	2,675,642	1,412,812	89.5
Tofino	641,910	------	------
Vanderhoof	1,608,676	911,735	76.4
Whatshan	43,512,800	------	------
Westbank	484,910	1,589,140	—69.5
Williams Lake	2,009,132	1,452,150	38.3
Totals	375,935,761	255,556,217	47.3
Purchased—			
West Kootenay Power & Light Co. Ltd.	1,477,308	3,038,560	—51.5
B.C. Electric Railway Co., Ltd.	625,200	2,591,800	—76.0
Canadian Collieries (Dunsmuir) Ltd.	514,079	5,593,119	—91.0
Hillcrest Lumber Co. Ltd.	200,960	708,800	—71.7
Totals	2,817,547	11,932,279	—76.3
Total generated and purchased	378,753,308	267,488,496	41.6

TABLE 8.—DISPOSITION OF POWER (KWH)

Disposition	Fiscal Year Ended March 31		Percentage Increase
	1952	1951	
Total generated and purchased	378,753.308	267,488,496	41.6
Less station services	2,333,573	2,099,338	11.1
Net generated and purchased	376,419,735	265,389,158	41.9
Less transmission, transformation losses	28,260,125	24,586,597	15.0
Delivered wholesale	348,159,610	240,802,561	44.5
Percentage transmission and transformation losses	7.5%	9.3%	------
Less sales under section 21—			
B.C. Electric Railway Co., Ltd.	88,141,800	45,914,400	92.0
MacMillan & Bloedel Ltd., Alberni	35,703,000	30,678,000	16.4
MacMillan & Bloedel Ltd., Harmac	50,325,120	24,331,680	107.0
West Kootenay Power & Light Co. Ltd.	837,160	7,085	------
Totals	175,007,080	100,931,165	73.5
Delivered to power districts for distribution	173,152,530	139,871,396	23.8
Less distribution losses	19,146,379	13,494,653	41.8
Distribution-system sales	154,006,151	126,376,743	21.8
Percentage distribution losses	11.1%	9.6%	------


BRITISH COLUMBIA
POWER COMMISSION
GRAPHIC REPRESENTATION OF SOURCES AND DISPOSITION OF TOTAL ELECTRICAL ENERGY OUTPUT FOR FISCAL YEAR 1951-52.
Steam: 306,875 K.W.H. 0·1%
Purchased: 2,817,547 K.W.H. 0·7%
Diesel: 30,928,309 K.W.H. 8·2%
Hydro: 344,700,577 K.W.H. 91·0%
Total 378,753,308 K.W.H.
Special Contracts 175,007,080 K.W.H. 46·2%
Residential 67,800,885 K.W.H 17·9%
Commercial 41,627,531 K.W.H. 11·0%
Power & Street Lighting 44,577,735 K.W.H. 11·8%
Losses & Station Services 49,740,077 K.W.H. 13·1%

Quesnel power-house is largest diesel generating-station in Commission's system. Four units here have total capacity of 2,400 kw. (3,200 electrical horse-power).

TABLE 9.—SOURCES OF POWER

Source	Fiscal Year Ended March 31				Percentage Increase
	1952		1951		
	Kwh	Per Cent	Kwh	Per Cent	
Hydro-electric	344,700,577	91.6	230,968,083	86.4	49.2
Diesel-electric	30,928,309	7.6	21,364,364	7.9	44.7
Steam-electric	306,875	0.1	3,223,770	1.2	—90.5
Purchased	2,817,547	0.7	11,932,279	4.5	—76.3
Totals	378,753,308	100.0	267,488,496	100.0	41.6

2. TRANSMISSION

The 75-mile 132-kv transmission-line connecting the Whatshan generating-station with a new 132/63-kv. step-down terminal located near Vernon was placed in operation on May 7th, 1951.

As part of a programme to replace the overloaded 33-kv line from the Shuswap Falls generating-station to substations along the Coldstream and the North Okanagan Valleys, a 63-kv tap from the Vernon–Kamloops line terminating in a new step-down substation at Armstrong commenced operation in July, 1951.

A combined radio-telephone carrier communication system connecting the Whatshan and Shuswap Falls generating plants with Vernon and Kamloops substations was completed and provided much-needed communication facilities incidental to the operation of the transmission system. A radio-telephone system between Clowhom Falls and Sechelt was installed, which connects with the Commission's radio-telephone system on Vancouver Island.

A new step-down 60/23-kv substation at Ladysmith assumed a portion of the load of the Nanaimo-Duncan District during October, thereby relieving the overloaded condition at the Pine Street substation at Nanaimo.

Special attention was given to the removal of all danger trees adjacent to transmission-lines of major importance, this work having been well advanced at the end of the year. Consequently there were no major interruptions to the 132-kv system on Vancouver Island, but wet snow loading in December, 1951, and faults originating, in some cases, at points external to the Commission's system did cause voltage surges on several occasions.

Patrol cabins were built at three points along the single-circuit 132-kv transmission-line from Whatshan to Vernon, and a snowmobile was utilized for winter patrols over this mountainous stretch with reasonable success. This line and its continuation to Kamloops at 63 kv gave excellent service during the year. A contributing factor was the large amount of work done in removing danger trees.

Early in the summer two interruptions of about nine hours each occurred as a result of trees contacting the line. Essential loads were supplied by the Shuswap Falls plant and the interconnection with the West Kootenay Power and Light Company Limited during these incidents. Subsequent to July 20th, 1951, no outages occurred on the line. On several occasions the system was able to be of considerable assistance to West Kootenay during periods of emergency.

The procedure for testing the condition of transformer and switch oil has been expanded to include tests for neutralization number and interfacial tension number. These, as well as the di-electric test already in use, provide full information as to the condition of oil.

On Vancouver Island 82.5 acres of regrowth were chemically treated and considerable work was done on the maintenance of access roads.

The various sub-transmission-lines on Vancouver Island and in the Interior were interrupted due to a variety of causes. Among these were lightning, a transformer-bushing failure at Shuswap Falls, collision by motor-vehicles, wind, trees, and disturbances originating on lines of other utilities which were connected to the Commission's system.

3. DISTRIBUTION

The continual growth of load in all districts, particularly marked in those at Terrace, Quesnel, Burns Lake, and Campbell River, made it necessary to increase conductor and transformer capacities and, in some cases, to expedite plans for increasing distribution voltages. As part of this programme, the first fully automatic regulating and transforming distribution substation was established at Nanaimo.

The modernization of street-lighting systems, notably at Enderby and Kamloops, was further continued. New luminaries were also added in nearly all power districts.

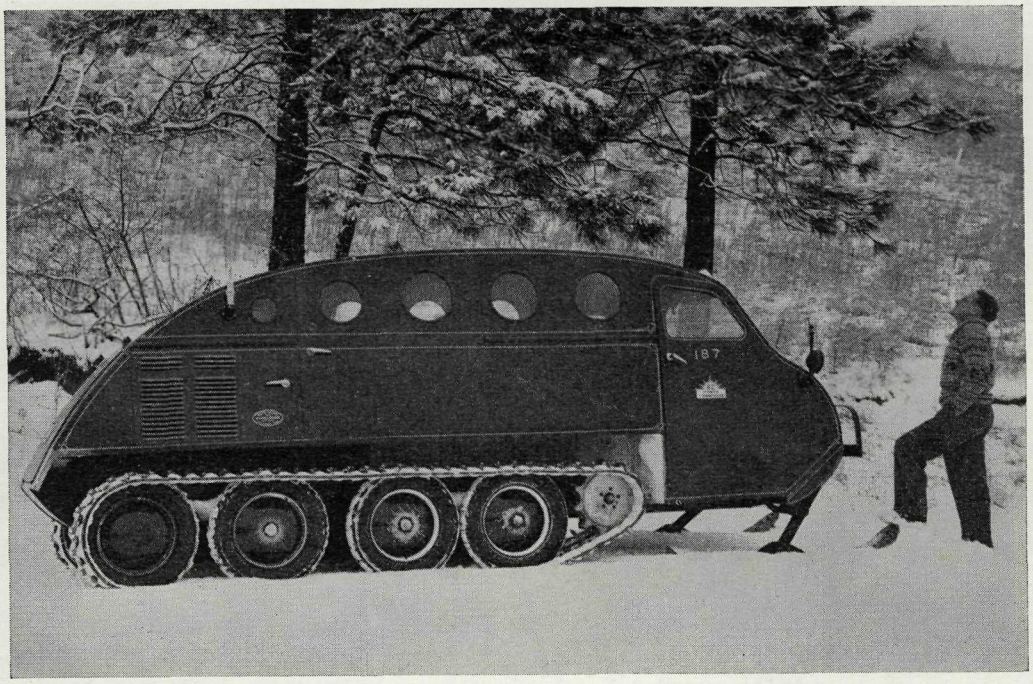
The introduction of Regulation No. 5 rates in the North Okanagan and Kamloops Districts made necessary a survey to classify all customers in these two districts as to their demand ratings.

Weather conditions during the earlier winter months were less favourable for the maintenance of service than usual. January, in particular, produced a series of violent storms, the effects of which were felt at widely separated points in the Province and caused a number of interruptions to service, none of which, however, was of long duration.

An unusual electrical storm passed over the Alberni and Campbell River Districts in January and, at the former point, the prolonged dry spell of midsummer permitted an accumulation of contamination from the pulp-mill to build up on insulators with damaging effects when the first rain fell.

The meter reverification programme for the year was completed, about 5,700 meters being called in and reinspected.

Rural electrification continues to be important part of Commission's operations. Above, building 13,000-volt 16-mile Fanny Bay line which was energized February 20th, 1952.

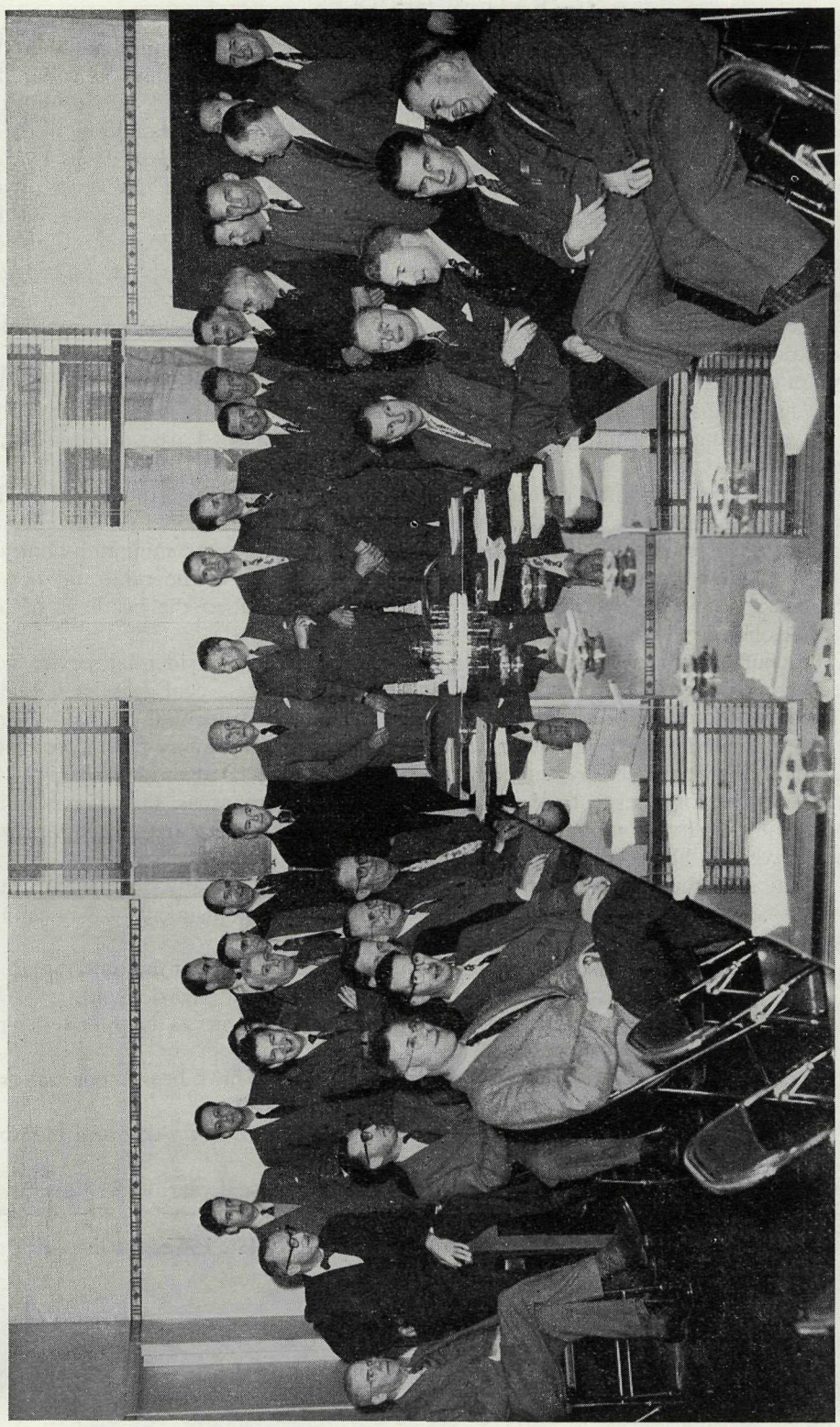


The Commission's new snowmobile which patrols the important Whatshan–Vernon 132,000-volt transmission-line over the rugged Monashee Pass which is snow-bound in winter.

TABLE 10.—NUMBER OF CUSTOMERS, CIRCUIT-MILES OF DISTRIBUTION-LINES, AND INVESTMENT IN DISTRIBUTION PLANT, BY POWER DISTRICTS, TOGETHER WITH CUSTOMERS-PER-MILE AND INVESTMENT-PER-CUSTOMER AVERAGES, AS AT MARCH 31ST, 1952.

Power District	Number of Customers	Distribution Mileage	Distribution Investment[1]	Customers per Mile	Investment per Customer[1]
Alberni	4,191	109.0	$648,434.56	38.4	$154.72
Alert Bay	475	17.0	119,416.05	27.9	251.40
Burns Lake	454	16.7	92,482.08	27.2	203.70
Campbell River	1,331	90.3	372,458.85	14.7	279.83
Clinton	105	1.7	12,894.28	61.9	122.80
Comox Valley	3,116	147.4	701,271.33	21.1	225.05
Dawson Creek	1,569	111.2	277,324.07	14.1	176.75
Golden	278	11.0	57,226.45	25.3	205.85
Hazelton	214	10.9	57,748.18	19.6	269.85
Houston	99	5.1	30,046.89	19.4	303.50
Kamloops	4,678	152.2	975,097.49	30.7	208.44
Lake Cowichan	593	18.6	107,997.63	31.8	182.12
Lake Windermere	407	40.4	180,915.91	10.0	444.51
Merritt	486	17.6	97,108.57	27.6	199.81
Nakusp	506	56.2	207,445.23	9.0	409.97
Nanaimo-Duncan	13,837	706.1	3,215,657.35	19.6	232.40
North Okanagan	8,422	734.3	2,271,182.92	11.5	269.67
Peachland-Westbank	507	44.1	197,442.54	11.5	389.43
Quesnel	1,042	30.3	176,046.39	34.5	168.95
Sechelt	1,312	53.7	262,571.42	24.4	200.13
Smithers	665	57.9	186,830.50	11.5	280.95
Terrace	675	27.6	110,617.65	24.4	163.88
Ucluelet-Tofino	210	29.2	122,275.99	7.2	582.27
Vanderhoof	310	30.0	88,843.81	10.3	286.59
Williams Lake	430	22.4	78,179.96	19.2	181.81
Totals	45,912	2,540.9	$10,647,516.10	18.1	$231.91

[1] Exclusive of metering equipment, which averaged $29.49 per customer.



Delegates to first conference of district managers and head-office officials convened in board room at Victoria, January 22nd to 25th, 1952.

4. RATE SCHEDULES

The year marked the disappearance of the last electric tariffs inherited with the acquisition of predecessor companies, so that all customers are now charged under the Commission's promotional-rate structure. Each classification of service has a uniform type of schedule regardless of locality, although variations in the actual rate level do exist.

The final phase in this unifying process, which was commenced in 1946 by the adoption of a newly designed rate structure (Regulation No. 5), in a few small areas, was made possible by the completion of the Whatshan plant on the Arrow Lakes and the 60-cycle conversion programme on Vancouver Island. These developments enabled Kamloops, the North Okanagan, and the balance of the Comox Valley areas to be brought under promotional rates during the year. Generation-plant and distribution-line capacities were by then able to handle all anticipated load increases which the new schedules could be expected to produce.

This rate structure is now in effect in all twenty-five power districts operating at the end of the fiscal year. In addition, it has been adopted in two new areas scheduled to receive power during the summer of 1952. All rates so established are set out in detail on succeeding pages.

During the year a complete revision of the text of Regulation No. 5 took place. The more important amendments thereto resulted in abolition of the seasonal service classification as such, customers in this category being permitted shorter minimum-contract period. Amendments clarifying the availability clauses of the commercial and power classifications were made, the wording as revised being set out in the headings of the rate schedules listed below.

In the course of the year the final block of energy used for residential service was increased by one-fifth of a cent per kwh, making the kwh charge 1 cent gross or 0.9 cent net. This slight increase affected only a small portion of the residential customers, and these to a very limited extent. The energy charge for power and primary power produced by diesel plants was increased by one-half cent per kwh on the last two blocks only. As the increased price still does not cover the cost of fuel in many areas, this raise is quite in keeping with general conditions. Quantity discounts to power and primary-power customers served by hydro plants were discontinued where possible.

In addition to the above, several minor rate adjustments, chiefly downward, were made, with a view toward achieving greater uniformity. These adjustments—they cannot be construed as rate revisions—took the following form:—

(*a*) Reduction in the regular minimum bills of customers in the outlying areas of five power districts to a uniform $1 per kw of billing demand.

(*b*) Reduction in the primary power rate in two districts now linked with hydro sources of power.

(*c*) The minimum bills of primary-power customers have been made uniform at $1 per kw of billing demand.

(*d*) The irrigation power schedule was altered from a thirty-day to a monthly basis for the convenience of customers.

The irrigation service schedule was extended, during the fiscal year, to all Vancouver Island areas served from the John Hart plant.

The rates for all classes of service, as in effect at March 31st, 1952, are listed for all power districts in the following tables.

A. Residential Service Rates

Available for residence lighting, heating, cooking, and single-phase motors individually rated at 2 horse-power or less used for domestic purposes.

Power District and Rate Zone	Monthly Minimum per Kw of Demand	Block I (First 20 Kwh per Month per Kw of Demand)	Block II (Next 60 Kwh per Month per Kw of Demand)	Block III (Balance of Monthly Consumption)
	$	Cents per Kwh	Cents per Kwh	Cents per Kwh
Alberni (Zone 1)	.55	7	2	1
,, (Zone 2)	1.00	8	2	1
Alert Bay	1.00	12	2½	1
Burns Lake	1.00	12	2½	1
Campbell River (Zone 1)	1.00	10	2	1
,, ,, (Zone 2)	3.33	10	2½	1
Clinton	1.00	12	2½	1
Comox Valley (Zone 1)	1.00	8	2	1
,, ,, (Zone 2)	1.00[1]	10	2	1
Dawson Creek	1.00	10	2½	1
Fort St. James	([5])	12	2½	1
Golden	1.00	12	2½	1
Hazelton	1.00	12	2½	1
Houston	3.00	12	2½	1
Kamloops (Zone 1)	.55	7	2½	1
,, (Zone 2)	1.00	8	2½	1
Lake Cowichan	1.00	10	2½	1
Lake Windermere	1.00	12	2½	1
Merritt	1.00	12	2½	1
Nakusp	1.00[2]	12	2½	1
Nanaimo-Duncan (Zone 1)	.55	7	2	1
,, ,, (Zone 2)	1.00	8	2	1
,, ,, (Zone 3)	1.00	10	2½	1
North Okanagan (Zone 1)	.55	7	2½	1
,, ,, (Zone 2)	1.00[3]	8	2½	1
Peachland-Westbank	1.00[4]	10	2½	1
Queen Charlotte	([5])	12	2½	1
Quesnel (Zone 1)	1.00	10	2½	1
,, (Zone 2)	1.00	12	2½	1
Sechelt	1.00	12	2½	1
Smithers	1.00	10	2½	1
Terrace	1.00	12	2½	1
Ucluelet-Tofino	([6])	12	2½	1
Vanderhoof	1.00	12	2½	1
Williams Lake (Zone 1)	1.00	10	2½	1
,, ,, (Zone 2)	1.00	12	2½	1

[1] $5.50 per month or $1 per kw of billing demand, whichever is the greater, in that area between Royston and Mud Bay.

[2] $5 per month or $1 per kw of billing demand, whichever is the greater, in Needles-Edgewood-Fauquier only.

[3] $5 per month or $1 per kw of billing demand, whichever is the greater, in Falkland-Westwold-Monte Lake only.

[4] $5.50 per month or $2 per kw of billing demand, whichever is the greater, in the Lakeview Heights Subdivision (V.L.A.) only.

[5] $5 per month or $1 per kw of billing demand, whichever is the greater.

[6] $6 per month or $1 per kw of billing demand, whichever is the greater.

Note.—Minimum billing demand, 2 kw.

Discount for prompt payment, 10 per cent.

A residential service is deemed to have a minimum demand of 2 kw; if a range is installed or if the measured demand is 2.5 kw but does not exceed 8 kw, the billing demand is 3 kw; if the measured demand exceeds 8 kw, the billing demand shall be such metered demand less 5 kw.

B. Commercial Service Rates

Available for lighting and other electrical equipment in all premises excepting single and duplex residences at 115/230 volts, or, where available and where the contract demand is not less than 25 kw, three-phase four-wire 115/208 volts.

Power District and Rate Zone	Monthly Minimum per Kw of Demand	Block I (First 30 Kwh per Month per Kw of Demand)	Block II (Next 60 Kwh per Month per Kw of Demand)	Block III (Balance of Monthly Consumption)
	$	Cents per Kwh	Cents per Kwh	Cents per Kwh
Alberni (Zones 1 and 2)	1.00	8	4	½
Alert Bay	1.00	12	4	½
Burns Lake	1.00	12	4	½
Campbell River (Zones 1 and 2)	1.00[1]	10	4	½
Clinton	1.00	12	4	½
Comox Valley (Zones 1 and 2)	1.00[2]	8	4	½
Dawson Creek	1.00	12	4	½
Fort St. James	([5])	12	4	½
Golden	1.00	12	4	½
Hazelton	1.00	12	4	½
Houston	3.00	12	4	½
Kamloops (Zone 1)	1.00	9	5	1½
,, (Zone 2)	1.00	10	5	1½
Lake Cowichan	1.00	10	4	½
Lake Windermere	1.00	12	4	½
Merritt	1.00	12	4	½
Nakusp	1.00[3]	12	4	½
Nanaimo-Duncan (Zones 1 and 2)	1.00	8	4	½
,, ,, (Zone 3)	1.00	10	4	½
North Okanagan (Zones 1 and 2)	1.00[4]	8	4	1
Peachland-Westbank	1.00	12	4	½
Queen Charlotte	([5])	12	4	½
Quesnel (Zones 1 and 2)	1.00	12	4	½
Sechelt	1.00	12	4	½
Smithers	1.00	12	4	½
Terrace	1.00	12	4	½
Ucluelet-Tofino	([6])	12	4	½
Vanderhoof	1.00	12	4	½
Williams Lake (Zones 1 and 2)	1.00	12	4	½

[1] $3.33 per kw of billing demand in Zone 2 only.

[2] $5.50 per month or $1 per kw of billing demand, whichever is the greater, in that area between Royston and Mud Bay.

[3] $5 per month or $1 per kw of billing demand, whichever is the greater, in Needles-Edgewood-Fauquier only.

[4] $5 per month or $1 per kw of billing demand, whichever is the greater, in Falkland-Westwold-Monte Lake only.

[5] $5 per month or $1 per kw of billing demand, whichever is the greater.

[6] $6 per month or $1 per kw of billing demand, whichever is the greater.

Note.—Minimum billing demand, 2 kw.

Discount for prompt payment, 10 per cent.

A commercial service is deemed to have a minimum demand of 2 kw. Where the measured demand exceeds 5 kw, the billing demand is 75 per cent of such measured demand.

C. Power Service Rates

Available for motors and other electrical equipment, excluding lighting and space heating, at available phases and voltages.

Power Districts (All Zones)	Monthly Service Charge per Kw of Demand	Block I (First 50 Kwh per Month per Kw of Demand)	Block II (Next 50 Kwh per Month per Kw of Demand)	Block III (Balance of Monthly Consumption)
	$	Cents per Kwh	Cents per Kwh	Cents per Kwh
Alberni	1.00	3	1½	½
Alert Bay	1.00	3	2	1
Burns Lake	1.00	3	2	1
Campbell River	1.00	3	1½	½
Clinton*	1.00	5	3	1
Comox Valley	1.00	3	1½	½
Dawson Creek	1.00	3	2	1
Fort St. James*	1.00	5	3	1
Golden	1.00	3	2	1
Hazelton*	1.00	5	3	1
Houston*	1.00	5	3	1
Kamloops	1.00	3	1½	½
Lake Cowichan	1.00	3	1½	½
Lake Windermere	1.00	3	2	1
Merritt	1.00	3	2	1
Nakusp	1.00	3	2	1
Nanaimo-Duncan	1.00	3	1½	½
North Okanagan	1.00	3	1½	½
Peachland-Westbank	1.00	3	1½	½
Queen Charlotte*	1.00	5	3	1
Quesnel	1.00	3	2	1
Sechelt	1.00	3	2	1
Smithers	1.00	3	2	1
Terrace	1.00	3	2	1
Ucluelet-Tofino	1.00	3	2	1
Vanderhoof	1.00	3	2	1
Williams Lake	1.00	3	2	1

Note.—Minimum contract demand, 5 kw.
Discount for prompt payment, 10 per cent in all districts except those marked with an asterisk (*).
Monthly minimum bill is $1 per kw of billing demand.

D. Primary-power Service Rates

Available for establishments requiring power at the primary voltage of the distribution system and at a single point of delivery.

Power Districts (All Zones)	Monthly Service Charge per Kw of Demand	Block I (First 50 Kwh per Month per Kw of Demand)	Block II (Next 50 Kwh per Month per Kw of Demand)	Block III (Balance of Monthly Consumption)
	Cents	Cents per Kwh	Cents per Kwh	Cents per Kwh
Alberni	50	2½	1½	½
Alert Bay	85	3	2	1
Burns Lake	85	3	2	1
Campbell River[2]	50	2½	1½	½
Clinton[1]	----	------	------	----
Comox Valley	50	2½	1½	½
Dawson Creek	85	3	2	1
Fort St. James[1]	----	------	------	----
Golden	85	3	2	1
Hazelton[1]	----	------	------	----
Houston[1]	----	------	------	----
Kamloops	50	2½	1½	½
Lake Cowichan	50	2½	1½	½
Lake Windermere	85	3	2	1
Merritt	85	3	2	1
Nakusp	85	3	2	1
Nanaimo-Duncan[3]	50	2½	1½	½
North Okanagan	50	2½	1½	½
Peachland-Westbank	50	2½	1½	½
Queen Charlotte[1]	----	------	------	----
Quesnel	85	3	2	1
Sechelt	85	3	2	1
Smithers	85	3	2	1
Terrace	85	3	2	1
Ucluelet-Tofino[1]	----	------	------	----
Vanderhoof	85	3	2	1
Williams Lake	85	3	2	1

[1] Owing to limitations of generation or transmission equipment, primary-power service is not available in these power districts.

[2] Owing to limitations of transmission equipment, primary-power service is not available in Zone 2.

[3] Owing to limitations of transmission equipment, primary-power service is not available in Zone 3.

Note.—Minimum contract demand, 67 kw.

Discount for prompt payment, 10 per cent.

Monthly minimum bill is $1 per kw of billing demand.

E. Street-lighting Service Rates

Street-lights

The uniform street-lighting schedule is now available in all power districts served by the Commission, although a few contracts relating to older-type installations are still in force in some areas.

Two types of street-lighting service are available:—

(*a*) *Overhead.*—Under which the Commission installs, owns, operates, and maintains overhead street-lighting equipment and supplies energy for the operation of lights daily from one hour after sunset until one hour before sunrise. The customer municipality pays the actual cost of materials for renewal of lamps and glassware.

(*b*) *Ornamental.*—Under which the street-lighting equipment is owned by and maintained at the expense of the customer municipality. The Commission supplies energy for the operation daily from one hour after sunset until one hour before sunrise.

The schedule of charges under each of these types of service for various lamp capacities is as follows:—

System of Wiring	Capacity Rating of Lamp	Net Rate per Lamp per Month	
		Overhead	Ornamental
Multiple	100 watts	$1.50	$0.75
	200 watts	2.00	1.25
	300 watts	2.50	1.75
	500 watts	3.50	2.75
	1,000 watts	6.00	5.25
Series	100 candle-power	1.30	.55
	250 candle-power	1.75	1.00
	400 candle-power	2.10	1.35
	600 candle-power	2.60	1.85

Note.—The Commission will expend not over $100 per street-lamp. Any excess over $100 per lamp shall be paid for by the contracting customer.

Traffic-lights

Energy charges for traffic-lights are as follows:—

Two-colour centre-suspension type, $3 per month per lantern.

Three-colour corner set of four lanterns, $8.50 per month per set.

Decorative Lighting

During the year an energy charge of 2 cents per kwh, based on the estimated use of lighting for decorative purposes, was also established.

F. Irrigation Service Rates

Available for motor-driven pumps used for irrigation purposes, including testing of pipe-lines, from April 1st to October 31st, in all power districts, served wholly from hydro-electric sources.

Rate:—

$5 per month per horse-power of maximum demand for minimum period of three consecutive months.

17 cents per day per horse-power of maximum demand for all use in excess of the minimum contract period.

Note.—Minimum contract period, three consecutive months. Discount for prompt payment, 10 per cent.

V. SURVEYS AND INVESTIGATIONS

1. POWER PROJECTS

Some preliminary surveys and investigations in regard to development of water-storage on Campbell River were undertaken in connection with the Commission's application to the Water Comptroller for authority to proceed with construction of a storage-reservoir on Buttle Lake. More complete investigations necessary for the final design of a storage-dam were deferred pending issuance of the Water Comptroller's decision and subsequent authorization by the Lieutenant-Governor in Council of the undertaking.

During the year ended March 31st, 1948, preliminary surveys were made of a power-site on Spillimacheen River in the Columbia Valley. It was considered that this power-site might be suitable for supplying the area lying in the valley between Golden and Lake Windermere. In view of the rapid growth of the Commission's load now served by the diesel-electric generating plant in the Lake Windermere area and development of certain mining load in the valley, and because equipment from the dismantled Barriere plant was available, it was considered opportune to proceed further with the Spillimacheen surveys and to include diamond-drilling to establish foundations. Detailed plans and estimates were also prepared, so that development of power at this site may be recommended as soon as the load is large enough to warrant the necessary investment. A review was also made of other hydro-electric sites in the valley, including that on Horsethief Creek, surveys covering which have recently been made available by the Water Rights Branch of the Department of Lands and Forests.

Toward the later part of the year a survey was made of the power possibilities of Kokish River, which enters the sea at Beaver Cove on Vancouver Island near Alert Bay. The results of these surveys are not yet available, but preliminary indications are that a small hydro-electric development serving the local area, including Alert Bay and Sointula, may be feasible.

A study was made for a small hydro-electric development situated on Spius Creek near Merritt, this being based on recent surveys carried out by the Water Rights Branch. Development of this power-site was found to be uneconomic under present circumstances.

Studies were also made, based on surveys made by the Water Rights Branch, covering development of a local hydro-electric site to supersede the present diesel plant at Terrace, where the load is increasing rapidly. Final conclusions on this subject were not available by the end of the year.

2. TRANSMISSION PROJECTS

On the Vancouver Island system, preliminary design was carried out and land surveys commenced for an extension of the 132-kv transmission-line from Nanaimo to Harmac. Design work was commenced on the installation of two 5,000-horsepower motors at Puntledge.

Consideration was given to conditions on Vancouver Island's 60-kv transmission system; detailed work was started on a 60-kv substation at Duncan; and design and land surveys were commenced on an extension of the 60-kv system from Nanaimo to Parksville.

Planning and field work continued as to the completion of a second 63-kv circuit from Vernon to Kamloops via Salmon Arm.

Further preliminary consideration was given to the transmission of power from Whatshan to Nakusp and New Denver.

A transmission-line route was investigated and preliminary engineering carried out in the Spillimacheen-Golden-Invermere area.

3. DISTRIBUTION PROJECTS

Detailed surveys of Fort St. James and Queen Charlotte to Skidegate Mission were completed. Distribution systems were designed for these two areas and will be constructed during the summer of 1952.

Detailed surveys and plans were completed for Quadra Island distribution.

Preliminary surveys were made and estimates prepared in respect to a possible distribution system based on hydro-electric development on Kokish River near Alert Bay.

Planning was continued regarding the distribution systems generally, with particular attention to long-range requirements.

VI. FINANCIAL

During the year the accounting and billing procedures were centralized at Victoria and the previous manual accounting methods were brought up to date with the installation of a " punched card " accounting section. This improvement was made possible by the availability of space in the new administration building in Victoria.

In the past year, revenue increased by 20 per cent, while expenses showed a less marked increase. The net credit to stabilization reserve was $268,980.47, being $116,567.31 greater than in the previous year, despite the fact that lower rates had been introduced in two of the larger power districts. The accumulated stabilization reserve is now $1,254,025.94, and all reserves total over $5,419,318.51.

Capital plant expansion continued, with over $6,000,000 being spent on the construction and acquisition of plant. Funds for this expansion were obtained by a bond issue of the Commission and by a fully repayable advance made by the Government of the Province of British Columbia to the Commission under section 46 of the " Electric Power Act."

The following statements show in more detail the financial position of the undertaking at March 31st, 1952, and the results of the financial operation for the year ended on that date:—

Statement 1.—Balance-sheet.
Statement 2.—Financial Summary—Revenue and Expenses.
Statement 3.—Power Distribution—All Districts: Summary of Revenue and Expenses.
Statement 4.—Power Distribution by Districts:
(*a*) Revenue and Expenditure.
(*b*) Stabilization Reserve.
Statement 5.—Plant and Related Reserves.
Statement 6.—Construction Work in Progress.
Statement 7.—Maintenance and Renewals Reserve.

Comments are made hereunder relating to certain of the statements to draw attention to main features, and to explain other items.

BALANCE-SHEET

Plant

The Commission's work-authorization system presently provides for the close-out of blanket work authorizations for system additions and improvements at March 31st annually. For this reason mainly the amount of plant transferred from work in progress to plant in operation at March 31st is considerable. The amount thus transferred at March 31st, 1952, was $2,886,556.30. Specific work authorizations are closed out throughout the year as plant becomes operative.

A further substantial increase will be noted in retired-plant balances. This account represents the residual book value of certain plant which has been disposed of and the book value of other plant which has become obsolete. These costs in a major degree relate to plant taken over in the original expropriations and acquisitions. The major increase in this balance in the year ended March 31st, 1952, is represented by costs of the Barriere hydro plant, which plant has been supplanted by the Whatshan hydro generation and transmission system.

Full provision for interest and sinking fund on plant values, shown under the headings of " Retired Plant Balances " and " Plant Acquisition Adjustments," is being made by a charge to operations. Plant in operation and inactive plant carry the same provision for interest and sinking fund, together with an additional provision for maintenance and renewals.

Current Assets

The reserve for bad debts, which amounted to $14,082.76 at March 31st, has been subtracted from the total of accounts receivable. Accounts written off at March 31st, 1952, as being uncollectable totalled $4,284.85, less than one-eighth of 1 per cent of total revenue.

Included in "Accounts Receivable—Other" is the amount of $13,973.89, representing accounts which are over ninety days old.

The inventory value at March 31st, 1952, is slightly over that of the previous year-end and has been verified by physical inventories taken at all stores' locations at March 31st, 1952.

Deferred Charges

Organization expense was written down by $18,216.36 in the past year, while the amortization of bond discount on both Provincial advances under section 46 and of Commission issues under section 53 of the "Electric Power Act" continued according to the term of each issue involved.

Sinking Fund

The full requirement of all sinking funds is on deposit with the Minister of Finance. In addition, a further $119,843 has been accumulated as a sinking fund surplus and has been earmarked for deposit with the Minister of Finance.

No advantage has been taken of deferments previously authorized.

Long-term Liabilities

The Commission received the amount of $9,832,540.25, being the proceeds of a Provincial Government twenty-five-year 3⅝-per-cent issue made in the United States under section 46 of the "Electric Power Act." Out of the proceeds, the Commission repaid bank notes to a total of $9,650,000 which had been previously issued for funds for the capital purposes of the Commission. The Commission, as with all previous Government advances, will meet the full costs of this issue by providing a sinking fund to be held by the Minister of Finance for the retirement of the debt at the end of its twenty-five-year term.

Additional funds were obtained by a $3,000,000 Commission bond issue at 3¾ per cent. This was a sinking fund bond with a forty-year-term. The proceeds of this issue were also used to retire earlier bank notes issued for capital purposes. The interest on and principal of this issue were fully guaranteed by the Province of British Columbia. This guarantee pertains to all Commission borrowings, whether on a long-term or on a temporary basis.

All interest costs had been met in full at March 31st, 1952.

The borrowing limitation of the Commission under section 53A of the "Electric Power Act" presently stands at $60,000,000.

Current Liabilities

Commission notes to a total of $2,000,000 were outstanding at the bank at March 31st, 1952. Full provision had been made at that time for the interest on this debt.

Reserves

The Maintenance and Renewals Reserve increased by $309,842.35 in the past year after providing for plant retirements amounting to $228,479.67.

There had been set aside the amount of $80,853.32 at March 31st for payment to municipalities according to section 62 of the "Electric Power Act." This figure represents 3 per cent of the gross revenue of the Commission derived from organized areas and is payable to the municipalities in lieu of certain taxes. The Commission pays municipal

and school taxes on land in addition to aforementioned tax. The amount set aside this year is about 13 per cent greater than the amount of last year. In addition to these taxes, the Commission also sets aside 3 per cent of gross revenue in unorganized areas, which sum may be used at the discretion of the Commission to provide street-lighting in these areas. This latter amount is shown under the heading "Reserves."

A further satisfactory increase is that noted in the Contingency Reserve of approximately $98,000.

Stabilization Reserve

This reserve was increased by $268,980.47 in the past year, representing the surplus from operation as detailed in Statements 2, 3, and 4.

OPERATING STATEMENTS

Statements 2, 3, and 4 provide the details of the operating picture.

An examination of Statement 4 shows that, of the twenty-five power districts, all but four operated at a surplus. In the preceding year ten of the twenty-five power districts had operated with losses. It may be noted that all power districts but five have accumulated Stabilization Reserve credit balances.

Statements 5, 6, and 7 give details of work in progress values, plant values, and of reserves related to such values.

EMPLOYEES' SUPERANNUATION

The balance of the employer-employee contributory superannuation fund was $803,272.34 at March 31st, 1952, according to the records of the Superannuation Commissioner, appointed as administrator of the fund.

AUDITORS' REPORT

We have examined the balance-sheet of the British Columbia Power Commission as at March 31, 1952, and the attached statement of combined operations for the year ended on that date, and have obtained all the information and explanations we have required. In connection therewith we examined or tested accounting records of the Commission and other supporting evidence but we did not make a detailed audit of the transactions.

We report that, in our opinion, the attached balance-sheet and related statement of combined operations have been drawn up so as to exhibit a true and correct view of the state of the affairs of the British Columbia Power Commission as at March 31, 1952, and the results of its operations for the year ended on that date according to the best of our information and the explanations given to us and as shown by the books of the Commission.

ISMAY, BOISTON, DUNN & CO.,
Chartered Accountants.

Victoria, B.C.,
June 12th, 1952.

BALANCE-SHEET AS

ASSETS

Capital assets—			
Plant and equipment in operation at values estimated by the Commission at dates of acquisition plus additions at cost (Statement 5)—			
Generation			$24,748,126.68
Transmission			8,206,877.83
Distribution			11,102,352.88
General			1,257,417.27
			$45,314,774.66
Construction work in progress (Statement 6)—			
Generation		$2,354,477.54	
Transmission		1,357,762.66	
Distribution		208,202.14	
General		927.56	
			3,921,369.90
Inactive plant (Statement 5)			486,421.72
Total plant and equipment			$49,722,566.28
Surveys and investigations			103,342.78
Plant-acquisition adjustments (Statement 5)			1,509,267.10
Retired-plant balances (Statement 5)			666,653.85
			$52,001,830.01
Current assets—			
Cash on hand and in banks		$281,133.26	
Accounts receivable, *less* reserves—			
Light and power	$376,192.51		
Other	39,125.50		
		415,318.01	
Construction and operating materials and supplies		1,132,731.53	
Unexpired insurance and other prepaid charges		78,271.24	
			1,907,454.04
Deferred charges, *less* amounts written off—			
Organization and preliminary expense		$93,125.83	
Bond discount		472,607.81	
			565,733.64
Sinking fund for retirement of long-term liabilities—			
On deposit with Minister of Finance		$1,943,093.42	
In bank pending deposit with Minister of Finance		119,843.00	
			2,062,936.42
			$56,537,954.11

AT MARCH 31ST, 1952 Statement 1

LIABILITIES

Long-term liabilities—			
The Government of the Province of British Columbia—			
General advances	$31,724,890.25		
Bond discount—general advances	252,254.74		
		$31,977,144.99	
"Central Interior Development Act"		60,000.00	
			$32,037,144.99
Bonds payable—			
3 per cent, due 1967		$7,000,000.00	
3 per cent, due 1968		6,000,000.00	
3¾ per cent, due 1991		3,000,000.00	
			16,000,000.00
Deferred agreement payable—purchased plant			226,099.83
			$48,263,244.82
Current liabilities—			
Notes payable—bank		$2,000,000.00	
Accounts payable and accrued charges		462,312.99	
Accrued interest on borrowings		186,420.35	
Gross revenue taxes, municipal areas		80,853.32	
Contractors' deposits and balances payable		54,274.65	
Customers' deposits		71,529.47	
			2,855,390.78
Reserves—			
Maintenance and renewals (Statement 5)		$1,335,999.01	
Gross revenue assessments, unorganized areas		165,996.01	
Contributions in aid of construction		28,832.85	
Contingencies		571,528.28	
			2,102,356.15
Stabilization reserve—			
Balance, April 1st, 1951		$985,045.47	
Surplus from operations, year to March 31st, 1952 (Statement 2)		268,980.47	
			1,254,025.94
Sinking fund reserve (Statement 5)			2,062,936.42
			$56,537,954.11

Statement 2

COMBINED OPERATIONS: FINANCIAL SUMMARY—REVENUE AND EXPENSES—FOR THE YEAR ENDED MARCH 31ST, 1952

	Total
REVENUE—	
Power districts—	
Electrical-energy sales	$4,064,867.18
Miscellaneous revenue	66,281.94
	$4,131,149.12
Special-contract sales and related revenues	764,080.70
	$4,895,229.82

EXPENSES—	OPERATING COSTS			
Direct—	Generation	Transmission	Distribution	
Labour	$302,465.08	$36,676.04	$233,141.88	$572,283.00
Fuel	439,066.83			439,066.83
Other operating expenses	91,614.01	14,694.00	83,820.26	190,128.27
Customer accounting			267,180.44	267,180.44
Gross revenue, 3% assessment			121,983.57	121,983.57
Administration and general expenses	56,187.88	7,764.87	130,503.84	194,456.59
Purchased power	47,147.22			47,147.22
	$936,481.02	$59,134.91	$836,629.99	$1,832,245.92
Interest on investment in operated plant	673,299.01	211,937.23	292,739.12	1,177,975.36
	$1,609,780.03	$271,072.14	$1,129,369.11	$3,010,221.28

OPERATING SURPLUS (excluding provision for reserves)				$1,885,008.54
Provision for reserves—				
Maintenance and renewals	$321,325.17	$155,641.04	$401,118.29	$878,084.50
Sinking fund	371,281.43	116,869.93	161,427.48	649,578.84
Contingencies			88,364.73	88,364.73
	$692,606.60	$272,510.97	$650,910.50	$1,616,028.07

NET OPERATING SURPLUS, year ended March 31st, 1952 (transferred to stabilization reserve)	$268,980.47

Statement 3

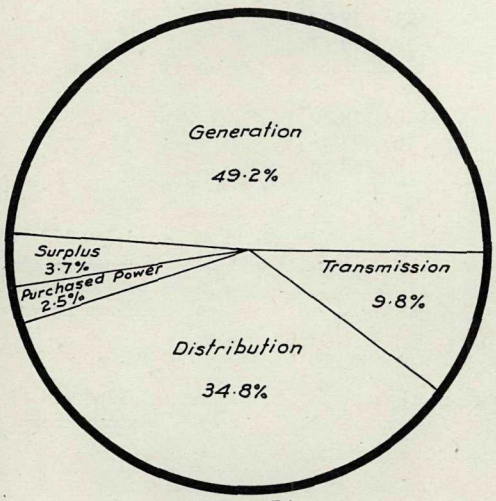
POWER DISTRIBUTION—ALL DISTRICTS: SUMMARY OF REVENUE AND EXPENSES FOR THE TWELVE-MONTH PERIOD ENDED MARCH 31ST, 1952

REVENUE—			
Electrical-energy sales			$4,064,867.18
Miscellaneous revenue			66,281.94
Total power-district revenue			$4,131,149.12
EXPENSES (detailed on Statement 2)—			
Cost of power—			
Direct expenses—			
Generation	$1,609,780.03		
Transmission	271,072.14		
		$1,880,852.17	
Provision for reserves—			
Generation	$692,606.60		
Transmission	272,510.97		
		965,117.57	
		$2,845,969.74	
Less special-contract sales and related revenues		764,080.70	
Cost of power delivered to distribution systems			$2,081,889.04
Distribution services—			
Direct expenses—			
Operating and administrative	$836,629.99		
Interest on distribution plant	292,739.12		
		$1,129,369.11	
Provision for reserves—			
Maintenance and renewals	$401,118.29		
Sinking fund	161,427.48		
Contingencies	88,364.73		
		650,910.50	
Total distribution services			1,780,279.61
Total expenses			$3,862,168.65
NET OPERATING SURPLUS (transferred to stabilization reserve)			$268,980.47

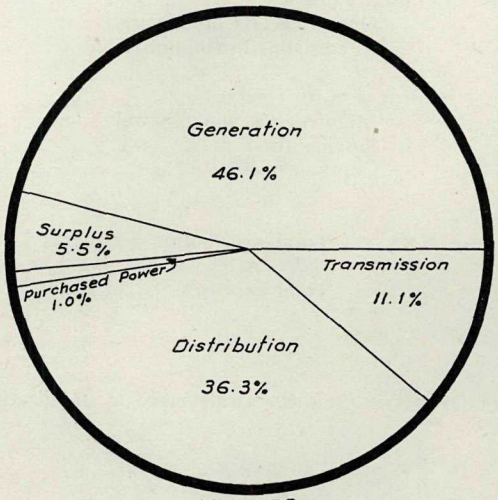
BRITISH COLUMBIA POWER COMMISSION

DISTRIBUTION OF REVENUE BY FUNCTIONS

FUNCTION	1950-51	1951-52
Generation	$ 1,997,049.83	$ 2,255,239.41
Transmission	399,084.47	543,583.11
Distribution	1,416,242.92	1,780,279.61
Power Purchased	99,851.41	47,147.22
Net Surplus	152,413.16	268,980.47
Total	$ 4,064,641.79	$ 4,895,229.82



1950-51

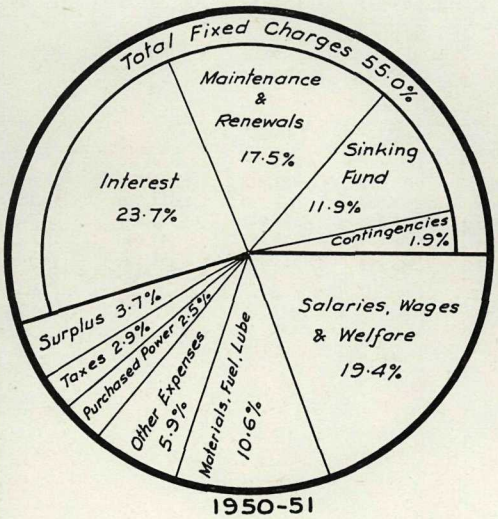


1951-52

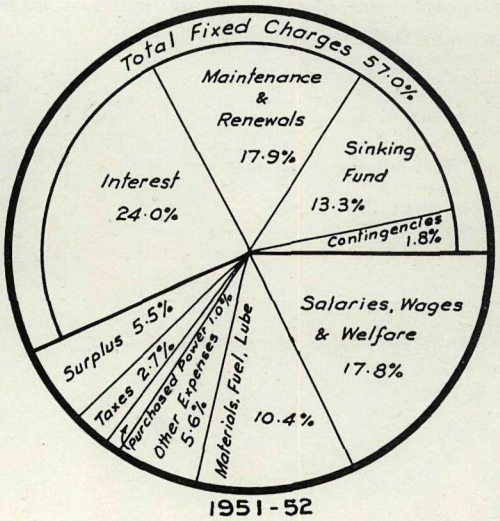
BRITISH COLUMBIA POWER COMMISSION

DISPOSITION OF REVENUE

	1950-51	1951-52
Fixed Charges:		
Maintenance & Renewals	$ 713,004.50	$ 878,084.50
Interest	964,966.78	1,177,975.36
Sinking Fund	482,483.33	649,578.84
Contingencies	77,009.64	88,364.73
Total	$ 2,237,464.25	$ 2,794,003.43
Salaries, Wages & Welfare	$ 788,469.36	$ 871,014.14
Materials, Fuel & Lube.	432,950.57	507,866.73
Other Expenses	237,032.94	272,316.61
Taxes	116,460.10	133,901,22
Purchased Power	99,851.41	47,147.22
Net Surplus	152,413.16	268,980.47
Total	$ 4,064,641.79	$ 4,895,229.82



1950-51



1951-52

POWER DISTRIBUTION

(*a*) SUMMARY OF REVENUE AND EXPENDITURE FOR THE

(*b*) ACCUMULATED STABILIZATION

	Alberni	Alert Bay	Burns Lake	Campbell River	Clinton
Revenue—					
Residential	$200,151.95	$23,948.49	$17,219.56	$58,810.50	$323.62
Commercial	98,171.61	14,091.68	16,882.28	36,259.51	436.22
Seasonal	222.57	----	----	----	----
Power	8,887.79	5,243.46	8,009.69	7,999.06	32.78
Irrigation power	----	----	----	----	----
Primary power	30,843.74	----	----	12,669.62	----
Street-lighting	8,662.21	1,664.00	962.05	1,344.00	----
Sub-total	$346,939.87	$44,947.63	$43,073.58	$117,082.69	$792.62
Miscellaneous	5,873.77	629.12	1,071.91	2,347.31	----
Total revenue	$352,813.64	$45,576.75	$44,145.49	$119,430.00	$792.62
Expenses—					
Allocated cost of power production	$190,885.51	$22,484.09	$21,860.45	$67,378.63	$361.10
Distribution expenses, direct—					
Operating and administrative	57,748.42	10,956.93	9,301.57	16,236.42	298.62
Interest on distribution investment	20,463.92	2,696.52	2,740.19	9,856.44	7.12
	$269,097.85	$36,137.54	$33,902.21	$93,471.49	$666.84
Operating surplus before provision for distribution reserves	$83,715.79	$9,439.21	$10,243.28	$25,958.51	$125.78
Provision for distribution reserves—					
Maintenance and renewals	$36,255.41	$4,347.72	$3,010.36	$9,396.44	$11.72
Sinking fund	11,235.88	1,483.88	1,512.48	5,453.11	3.57
Contingencies	7,588.56	827.04	672.36	1,921.20	----
	$55,079.85	$6,658.64	$5,195.20	$16,770.75	$15.29
Surplus for year ended March 31st, 1952	$28,635.94	$2,780.57	$5,048.08	$9,187.76	$110.49
Stabilization reserve, April 1st, 1951	34,826.85	27,158.14	13,300.48	18,019.49	----
Accumulated stabilization reserve, March 31st, 1952	$63,462.79	$29,938.71	$18,348.56	$27,207.25	$110.49
Customers, March 31st, 1952—					
Residential	3,615	374	338	1,081	66
Commercial	518	88	104	230	37
Power	56	10	10	18	2
Street-lighting	2	3	2	2	----
	4,191	475	454	1,331	105
Kwh, year ended March 31st, 1952—					
Residential	7,963,080	673,231	423,878	1,832,349	5,898
Commercial	4,417,944	503,667	591,829	1,611,396	11,148
Power	2,716,845	300,363	296,945	990,851	748
Street-lighting	217,684	68,631	23,481	44,200	----
	15,315,553	1,545,892	1,336,133	4,478,796	17,794

BY DISTRICTS Statement 4

TWELVE-MONTH PERIOD ENDED MARCH 31ST, 1952, AND

RESERVE AS AT THAT DATE

Comox Valley	Dawson Creek	Golden	Hazelton	Hope	Houston	Kamloops	Lake Cowichan	Lake Windermere
$133,371.58	$62,978.65	$11,581.88	$8,656.34	$7,785.53	$5,397.75	$202,195.05	$24,872.10	$17,015.30
57,567.79	53,875.31	9,979.59	6,776.09	7,412.33	2,851.20	187,839.43	12,480.61	12,570.49
.....	126.10	728.54	.....	.....	.....	.....	.....	708.30
14,421.46	14,520.05	682.29	2,650.55	3,303.09	144.69	88,499.43	88.65	3,080.97
.....	.....	.....	.....	.....	.....	19,699.65	.....	.....
133.20	9,963.21	.....	.....	213.12	.....	17,875.22	3,027.60	1,980.90
7,048.34	2,217.76	1,372.04	462.25	408.57	269.92	9,997.53	521.57	300.00
$212,542.37	$143,681.08	$24,344.34	$18,545.23	$19,122.64	$8,663.56	$526,106.31	$40,990.53	$35,655.96
4,309.06	4,693.14	461.85	157.83	434.11	192.32	4,607.86	812.49	571.52
$216,851.43	$148,374.22	$24,806.19	$18,703.06	$19,556.75	$8,855.88	$530,714.17	$41,803.02	$36,227.48
$91,325.95	$64,508.15	$10,030.10	$6,944.36	$9,730.55	$3,789.36	$252,153.78	$14,165.10	$18,942.66
51,005.62	30,298.98	8,203.16	4,200.53	4,197.31	1,745.28	86,690.04	7,614.54	8,856.00
17,231.12	6,985.93	1,803.60	1,721.77	1,007.06	760.21	27,904.22	2,453.28	5,171.78
$159,562.69	$101,793.06	$20,036.86	$12,866.66	$14,934.92	$6,294.85	$366,748.04	$24,232.92	$32,970.44
$57,288.74	$46,581.16	$4,769.33	$5,836.40	$4,621.83	$2,561.03	$163,966.13	$17,570.10	$3,257.04
$25,899.40	$10,363.39	$1,876.95	$1,903.48	$1,155.37	$879.31	$49,469.90	$4,363.58	$5,745.79
9,484.60	3,826.29	993.77	952.65	550.92	420.86	15,367.54	1,343.64	2,873.38
5,273.76	2,956.20	555.24	362.64	367.68	119.64	12,927.60	750.72	583.92
$40,657.76	$17,145.88	$3,425.96	$3,218.77	$2,073.97	$1,419.81	$77,765.04	$6,457.94	$9,203.09
$16,630.98	$29,435.28	$1,343.37	$2,617.63	$2,547.86	$1,141.22	$86,201.09	$11,112.16	*—$5,946.05*
82,179.03	75,736.76	14,503.72	*—6.82*	11,383.64	551.14	336,695.39	12,084.53	*—4,707.27*
$98,810.01	$105,172.04	$15,847.09	$2,610.81	$13,931.50	$1,692.36	$422,896.48	$23,196.69	*—$10,653.32*
2,663	1,208	211	161	.....	82	3,709	509	313
402	310	61	50	.....	15	821	80	87
47	49	5	1	.....	1	145	3	6
4	2	1	2	.....	1	3	1	1
3,116	1,569	278	214	.....	99	4,678	593	407
4,061,701	1,382,433	294,922	212,376	209,913	123,651	6,735,688	499,190	456,291
2,441,895	1,683,201	315,991	169,501	262,143	83,031	4,769,416	331,332	377,856
553,337	1,165,089	22,058	132,170	137,145	2,140	6,859,516	149,912	211,190
205,285	66,363	41,089	8,023	16,050	9,000	397,717	14,900	11,940
7,262,218	4,297,086	674,060	522,070	625,251	217,822	18,762,337	995,334	1,057,277

POWER DISTRIBUTION

(*a*) SUMMARY OF REVENUE AND EXPENDITURE FOR THE

(*b*) ACCUMULATED STABILIZATION

	Lillooet	Merritt	Nakusp	Nanaimo-Duncan	North Okanagan
Revenue—					
Residential	$2,596.75	$18,190.68	$17,499.74	$631,674.54	$403,901.89
Commercial	2,281.86	11,975.47	7,898.01	303,459.89	185,266.79
Seasonal	.....	22.72	.....	960.27	.....
Power	486.81	4,440.88	707.47	52,685.25	154,189.45
Irrigation power	.....	.....	.....	67.50	10,028.18
Primary power	.....	.....	.....	128,395.14	23,973.41
Street-lighting	163.08	2,845.38	426.71	24,027.65	17,629.80
Sub-total	$5,528.50	$37,475.13	$26,531.93	$1,141,270.24	$794,989.52
Miscellaneous	69.39	556.31	530.80	20,224.75	9,063.02
Total revenue	$5,597.89	$38,031.44	$27,062.73	$1,161,494,99	$804,052.54
Expenses—					
Allocated cost of power production	$1,823.47	$13,843.44	$8,442.47	$617,669.28	$428,933.10
Distribution expenses, direct—					
Operating and administrative	1,838.80	9,844.62	9,675.86	232,357.09	180,780.44
Interest on distribution investment	321.72	2,966.27	2,525.79	88,370.68	65,694.66
	$3,983.99	$26,654.33	$20,644.12	$938,397.05	$675,408.20
Operating surplus before provision for distribution reserves	$1,613.90	$11,377.11	$6,418.61	$223,097.94	$128,644.34
Provision for distribution reserves—					
Maintenance and renewals	$352.76	$3,475.20	$2,510.32	$131,521.31	$69,178.22
Sinking fund	176.56	1,633.94	1,391.35	48,735.93	36,305.38
Contingencies	130.41	217.56	590.76	25,191.48	18,666.96
	$659.73	$5,326.70	$4,492.43	$205,448.72	$124,150.56
Surplus for year ended March 31st, 1952	$954.17	$6,050.41	$1,926.18	$17,649.22	$4,493.78
Stabilization reserve, April 1st, 1951	1,604.04	2,726.92	*—2,123.25*	*—10,965.36*	268,919.47
Accumulated stabilization reserve, March 31st, 1952	$2,558.21	$8,777.33	*—$197.07*	$6,683.86	$273,413.25
Customers, March 31st, 1952—					
Residential	.....	397	410	11,886	7,067
Commercial	.....	81	85	1,787	1,125
Power	.....	7	9	150	222
Street-lighting	.....	1	2	14	8
	.....	486	506	13,837	8,422
Kwh, year ended March 31st, 1952—					
Residential	30,829	293,263	394,212	23,504,327	12,712,482
Commercial	68,068	322,835	230,500	13,045,396	5,400,563
Power	20,979	238,704	18,279	13,149,065	10,126,748
Street-lighting	4,820	93,329	8,827	851,661	578,984
	124,696	948,131	651,818	50,550,449	28,818,777

BY DISTRICTS—*Continued* Statement 4—*Continued*

TWELVE-MONTH PERIOD ENDED MARCH 31ST, 1952, AND

RESERVE AS AT THAT DATE—*Continued*

Peachland-Westbank	Quesnel	Sechelt	Smithers	Terrace	Tofino-Ucluelet	Vanderhoof	Williams Lake	Totals
$22,501.99	$44,331.12	$54,350.75	$33,811.51	$30,837.65	$8,853.03	$14,519.85	$20,767.80	$2,078,145.60
9,435.23	38,307.61	15,401.04	21,706.23	21,401.10	3,721.53	13,464.30	23,017.00	1,174,530.20
----------	343.36	1,221.55	302.78	----------	----------	----------	38.44	4,674.63
8,917.15	13,499.39	5,050.57	11,292.55	4,616.13	3,104.75	4,138.48	6,598.81	427,291.65
2,363.86	----------	----------	----------	----------	----------	----------	----------	32,159.19
699.93	19,347.30	229.62	7,081.35	3,992.26	----------	----------	----------	260,425.62
860.54	1,582.00	1,036.25	1,331.98	564.84	244.76	696.00	1,001.06	87,640.29
$44,778.70	$117,410.78	$77,289.78	$75,526.40	$61,411.98	$15,924.07	$32,818.63	$51,423.11	$4,064.867.18
403.66	2,184.94	1,332.94	2,629.20	1,473.58	651.21	592.50	407.35	66,281.94
$45,182.36	$119,595.72	$78,622.72	$78,155.60	$62,885.56	$16,575.28	$33,411.13	$51,830.46	$4,131,149.12
$20,913.36	$68,443.86	$29,253.17	$38,582.83	$27,256.96	$8,472.14	$18,242.27	$25,452.90	$2,081,889.04
11,077.93	17,229.04	21,939.56	15,066.51	14,277.84	6,063.04	9,165.71	9,960.13	836,629.99
4,695.94	4,974.84	7,697.01	5,331.70	2,420.79	2,080.61	2,543.65	2,312.30	292,739.12
$36,687.23	$90,647.74	$58,889.74	$58,981.04	$43,955.59	$16,615.79	$29,951.63	$37,725.33	$3,211,258.15
$8,495.13	$28,947.98	$19,732.98	$19,174.56	$18,929.97	*—$40.51*	$3,459.50	$14,105.13	$919,890.97
$5,325.48	$5,484.65	$12,292.99	$5,860.73	$2,852.08	$2,363.30	$2,649.01	$2,573.42	$401,118.29
2,600.46	2,733.22	4,242.47	2,949.41	1,322.38	1,156.20	1,406.97	1,270.64	161,427.48
999.00	1,955.16	1,602.00	1,536.96	992.76	----------	542.40	1,032.72	88,364.73
$8,924.94	$10,173.03	$18,137.46	$10,347.10	$5,167.22	$3,519.50	$4,598.38	$4,876.78	$650,910.50
—$429.81	$18,774.95	$1,595.52	$8,827.46	$13,762.75	*—$3,560.01*	*—$1,138.88*	$9,228.35	$268,980.47
—20,738.71	50,053.41	7,451.93	18,993.35	11,354.99	----------	808.13	35,235.47	985,045.47
—$21,168.52	$68,828.36	$9,047.45	$27,820.81	$25,117.74	*—$3,560.01*	*—$330.75*	$44,463.82	$1,254,025.94
407	823	1,155	516	519	164	219	300	38,193
75	187	139	125	138	43	79	112	6,779
23	29	15	22	17	2	10	17	876
2	3	3	2	1	1	2	1	64
507	1,042	1,312	665	675	210	310	430	45,912
591,971	1,115,355	1,001,136	1,183,651	820,306	187,334	427,588	663,830	67,800,885
215,682	1,237,776	557,216	763,395	754,939	120,262	593,061	747,488	41,627,531
711,198	1,858,511	149,719	691,151	550,384	204,447	136,364	266,962	41,660,820
36,290	41,556	36,106	52,200	18,712	9,464	28,130	32,473	2,916,915
1,555,141	4,253,198	1,744,177	2,690,397	2,144,341	521,507	1,185,143	1,710,753	154,006,151

PLANT AND RELATED RESERVES AS AT MARCH 31ST, 1952

Statement 5

Undertaking	Plant Cost							Maintenance and Renewals Reserve as at Mar. 31, 1952	Sinking-fund Reserve as at Mar. 31, 1952
	Plant in Operation			Plant-acquisition Adjustments, Mar. 31, 1952	Inactive Plant as at Mar. 31, 1952	Retired-plant Balances, Mar. 31, 1952	Total Plant Cost, Mar. 31, 1952		
	Totals as at Mar. 31, 1951	Net Additions, Year Ended Mar. 31, 1952	Totals as at Mar. 31, 1952						
Generating Plant									
Alert Bay	$162,937.50	$34,968.76	$197,906.26	$2,378.49			$200,284.75	$19,471.48	$11,257.57
Athalmer	140,846.30	*—83.77*	140,762.53				140,762.53	11,813.84	4,244.71
Barriere	373,465.71	*—373,465.71*							
Burns Lake	141,690.93	66,294.73	207,985.66				207,985.66	12,948.42	4,243.38
Clinton		26,522.24	26,522.24				26,522.24	2,090.00	
Clowhom Falls	4,000.00		4,000.00				4,000.00		
Dawson Creek	319,269.56	*—20,989.97*	298,279.59	222.47			298,502.06	22,958.11	9,640.69
Golden	138,989.43	*—919.96*	138,069.47	6,897.67			144,967.14	16,819.37	10,934.21
Hazelton	48,347.75	17,251.32	65,599.07				65,599.07	2,685.10	1,526.29
Hope (sold to B.C. Electric Rly. Co. Ltd., June 27, 1951)	81,233.71	*—81,233.71*							
Houston	20,819.23	17,872.43	38,691.66				38,691.66	1,707.02	470.05
John Hart	14,229,535.76	65,498.06	14,295,033.82				14,295,033.82	85,760.46	641,300.06
Kamloops	353,217.59	4,780.41	357,998.00	1,100.06			359,098.06	33,228.47	30,495.45
Lake Cowichan	7,465.27	*—7,465.27*							
Lillooet (sold to B.C. Electric Rly. Co. Ltd., June 27, 1951)	74,093.86	*—74,093.86*							
Merritt	15,197.01	135,632.73	150,829.74				150,829.74	5,211.71	1,530.56
Nakusp	81,774.09	*—754.73*	81,019.36	6,344.35			87,363.71	9,777.30	5,311.21
Peachland-Westbank	145,898.90	*—145,898.90*							
Quesnel	153,822.55	433,287.30	587,109.85	6,818.22			593,928.07	17,280.18	17,912.68
Sechelt	90,702.25	45,990.32	136,692.57	13,090.36			149,782.93	6,162.60	7,703.35
Shuswap	1,227,422.51	*—24,987.14*	1,202,435.37	390,429.41			1,592,864.78	67,626.03	144,978.59
Smithers	187,485.27	134,040.51	321,525.78	6,342.27			327,868.05	19,758.84	15,331.22
Terrace	110,657.51	158,660.15	269,317.66	183.68			269,501.34	11,887.62	7,557.86
Tofino-Ucluelet	30,010.00	19,668.65	49,678.65				49,678.65	251.16	450.56
Vanderhoof	133,499.40	20,713.67	154,213.07	4,866.17			159,079.24	15,862.52	11,279.69
Whatshan		5,858,944.16	5,858,944.16				5,858,944.16	25,163.71	75,827.18
Williams Lake	112,391.85	53,120.32	165,512.17	8,493.90			174,006.07	5,983.86	9,719.18
Old plant				100,190.57	$456,973.87	$493,664.99	1,050,829.43	56,522.18	85,950.29
Totals	$18,384,773.94	$6,363,352.74	$24,748,126.68	$547,357.62	$456,973.87	$493,664.99	$26,246,123.16	$450,969.98	$1,097,664.78

Transmission Plant									
Interior system	$1,454,578.88	$1,526,930.40	$2,981,509.28	$191,264.14			$3,172,773.42	$148,074.36	$115,711.88
Vancouver Island system	4,306,014.35	919,354.20	5,225,368.55	37,240.94			5,262,609.49	106,612.07	269,470.35
Old plant					$9,900.00		9,900.00	1,800.00	
Totals	$5,760,593.23	$2,446,284.60	$8,206,877.83	$228,505.08	$9,900.00		$8,445,282.91	$256,486.43	$385,182.23
Distribution Plant									
Alberni	$577,650.93	$61,445.08	$639,096.01	$1,065.20		$8,273.35	$648,434.56	$23,847.73	$40,111.23
Alert Bay	33,007.72	80,814.45	113,822.17	1,701.88		3,892.00	119,416.05	2,517.02	3,117.45
Burns Lake	78,701.59	7,881.88	86,583.47	3,898.61		2,000.00	92,482.08	5,059.90	2,758.53
Campbell River	248,351.12	37,994.86	286,345.98	34,164.69		51,948.18	372,458.85	8,973.36	11,698.06
Clinton		12,894.28	12,894.28				12,894.28		
Comox Valley	371,789.71	273,939.02	645,728.73	55,542.60			701,271.33	3,966.37	20,376.02
Dawson Creek	151,541.50	83,535.12	235,076.62	42,247.45			277,324.07	14,727.90	7,302.63
Golden	48,766.78	1,253.85	50,020.63	3,218.01		3,987.81	57,226.45	3,236.27	3,848.35
Hazelton	54,132.75	615.43	54,748.18	3,000.00			57,748.18	3,295.42	1,864.65
Hope	110,670.21	*—110,670.21*							
Houston	25,379.71	4,667.18	30,046.89				30,046.89	940.28	560.28
Kamloops	826,306.57	131,281.55	957,588.12	2,408.52		15,100.85	975,097.49	39,431.58	41,067.10
Lake Cowichan	64,399.50	42,713.66	107,113.16	884.47			107,997.63	2,381.38	2,378.71
Lake Windermere	172,398.97	2,913.29	175,312.26	5,603.65			180,915.91	7,770.38	3,964.19
Lillooet	36,328.61	*—36,328.61*							
Merritt	92,499.77	4,608.80	97,108.57				97,108.57	3,113.34	1,409.08
Nakusp	64,318.36	128,465.55	192,783.91	6,763.54		7,897.78	207,445.23	8,095.67	5,363.40
Nanaimo-Duncan	2,348,036.86	535,688.55	2,883,725.41	296,532.12		35,399.82	3,215,657.35	79,785.06	170,003.29
North Okanagan	1,862,815.89	169,825.45	2,032,641.34	237,241.58		1,300.00	2,271,182.92	55,783.71	127,071.97
Peachland-Westbank	128,270.48	66,015.52	194,286.00	94.90		3,061.64	197,442.54	10,932.34	9,104.78
Quesnel	134,508.88	28,026.62	162,535.50	3,051.69		10,459.20	176,046.39	8,308.95	7,696.80
Sechelt	209,366.92	20,193.64	229,560.56	15,939.77		17,071.09	262,571.42	8,187.14	14,686.19
Smithers	160,585.07	16,240.47	176,825.54	5,070.45		4,934.51	186,830.50	12,143.80	9,303.09
Terrace	65,222.26	44,170.75	109,393.01	183.68		1,040.96	110,617.65	4,526.20	3,675.84
Tofino-Ucluelet	30.00	122,245.99	122,275.99				122,275.99	2,057.68	1,082.97
Vanderhoof	74,006.32	5,665.95	79,672.27	3,986.55		5,184.99	88,843.81	2,961.32	3,753.17
Williams Lake	63,841.43	9,525.81	73,367.24	3,376.04		1,436.68	78,179.96	4,780.04	4,029.47
Meters	1,205,520.95	148,280.09	1,353,801.04				1,353,801.04	85,328.34	55,437.63
Totals	$9,208,448.86	$1,893,904.02	$11,102,352.88	$725,975.40		$172,988.86	$12,001,317.14	$402,151.18	$551,664.88
General Plant									
Service buildings and equipment	$235,107.75	$464,115.13	$699,222.88	$7,429.00	$19,220.74		$725,872.62	$11,991.09	$23,692.14
Transportation equipment	314,887.25	50,308.82	365,196.07		327.11		365,523.18	171,981.32	
Tools and equipment	186,778.89	6,219.43	192,998.32				192,998.32	42,419.01	4,732.39
Totals	$736,773.89	$520,643.38	$1,257,417.27	$7,429.00	$19,547.85		$1,284,394.12	$226,391.42	$28,424.53

PLANT AND RELATED RESERVES AS AT MARCH 31ST, *1952—Continued* Statement *5—Continued*

Undertaking	Plant Cost							Maintenance and Renewals Reserve as at Mar. 31, 1952	Sinking-fund Reserve as at Mar. 31, 1952
	Plant in Operation			Plant-acquisition Adjustments, Mar. 31, 1952	Inactive Plant as at Mar. 31, 1952	Retired-plant Balances, Mar. 31, 1952	Total Plant Cost, Mar. 31, 1952		
	Totals as at Mar. 31, 1951	Net Additions, Year Ended Mar. 31, 1952	Totals as at Mar. 31, 1952						
Summary									
Generating plant	$18,384,773.94	$6,363,352.74	$24,748,126.68	$547,357.62	$456,973.87	$493,664.99	$26,246,123.16	$450,969.98	$1,097,664.78
Transmission plant	5,760,593.23	2,446,284.60	8,206,877.83	228,505.08	9,900.00	.....	8,445,282.91	256,486.43	385,182.23
Distribution plant	9,208,448.86	1,893,904.02	11,102,352.88	725,975.40	.....	172,988.86	12,001,317.14	402,151.18	551,664.88
General plant	736,773.89	520,643.38	1,257,417.27	7,429.00	19,547.85	.....	1,284,394.12	226,391.42	28,424.53
Totals	$34,090,589.92	$11,224,184.74	$45,314,774.66	$1,509,267.10	$486,421.72	$666,653.85	$47,977,117.33	$1,335,999.01	$2,062,936.42

Statement 6

STATEMENT OF CONSTRUCTION WORK IN PROGRESS AS AT MARCH 31ST, 1952

Generation Plant

Alert Bay	$34,124.35
Clinton	8,390.06
Clowhom	852,051.50
Comox Valley	80,925.41
Dawson Creek	117,824.92
Fort St. James	244.15
Hazelton	4,087.63
Houston	14,722.51
John Hart	1,091,836.84
Merritt	30,380.03
Queen Charlotte	11,901.10
Quesnel	16,429.48
Sechelt	4,736.96
Shuswap Falls	970.09
Smithers	25,733.19
Terrace	26,424.95
Tofino-Ucluelet	489.73
Vanderhoof	6,593.65
Preliminary charges, surveys, and investigations, including sundry maintenance	26,610.99
Total	$2,354,477.54

Transmission Plant

Vancouver Island system	$619,508.71
Interior system	208,582.78
Sechelt transmission system	529,671.17
Total	$1,357,762.66

Distribution Plant

Campbell River	$69,875.32
Comox Valley	8,218.64
Dawson Creek	12,238.70
Fort St. James	22.14
Kamloops	67,071.03
Lake Cowichan	3.12
Nakusp	377.91
Nanaimo-Duncan	33,883.09
North Okanagan	10,033.42
Peachland-Westbank	272.35
Queen Charlotte	766.15
Quesnel	1,157.06
Sechelt	123.06
Terrace	260.50
Meter Department, coastal region	844.79
Preliminary charges, surveys, and investigations, including sundry maintenance	3,054.86
Total	$208,202.14

Statement 6—*Continued*

STATEMENT OF CONSTRUCTION WORK IN PROGRESS AS AT MARCH 31ST, 1952—*Continued*

General Plant

Head office	$927.56

Summary

Generation plant	$2,354,477.54
Transmission plant	1,357,762.66
Distribution plant	208,202.14
General plant	927.56
Total	$3,921,369.90

MAINTENANCE AND RENEWALS RESERVE AS AT MARCH 31ST, 1952

Statement 7

Undertaking	Reserve at Apr. 1, 1951	Provisions and Other Credits, 1951–52	Total Credits	M. & R. Charges, 1951–52	Retirements and Other Debits, 1951–52	Total Debits	Reserve at Mar. 31, 1952
Generating Plant							
Alert Bay	$13,589.48	$10,488.62	$24,078.10	$4,348.51	$258.11	$4,606.62	$19,471.48
Athalmer	5,663.04	7,042.32	12,705.36	768.60	122.92	891.52	11,813.84
Barriere	23,536.32	9,345.11	32,881.43	1,962.34	30,919.09	32,881.43	----------
Burns Lake	8,877.35	8,721.55	17,598.90	4,433.64	216.84	4,650.48	12,948.42
Clinton	----------	2,090.00	2,090.00	----------	----------	----------	2,090.00
Dawson Creek	15,854.44	15,555.80	31,410.24	4,264.49	4,187.64	8,452.13	22,958.11
Golden	12,493.49	6,949.44	19,442.93	2,412.94	210.62	2,623.56	16,819.37
Hazelton	2,208.73	3,487.40	5,696.13	2,962.35	48.68	3,011.03	2,685.10
Hope	8,509.42	1,026.96	9,536.38	2,489.48	7,046.90	9,536.38	----------
Houston	704.27	2,151.40	2,855.67	1,085.79	62.86	1,148.65	1,707.02
John Hart	91,406.08	106,887.29	198,293.37	111,064.15	1,468.76	112,532.91	85,760.46
Kamloops	13,010.36	22,046.45	35,056.81	1,766.37	61.97	1,828.34	33,228.47
Lake Cowichan	735.65	275.75	1,011.40	----------	1,011.40	1,011.40	----------
Lillooet	6,529.16	926.16	7,455.32	1,118.78	6,336.54	7,455.32	----------
Merritt	18.72	6,082.33	6,101.05	624.55	264.79	889.34	5,211.71
Nakusp	6,809.46	4,062.64	10,872.10	1,039.87	54.93	1,094.80	9,777.30
Peachland-Westbank	4,266.52	2,917.96	7,184.48	1,471.75	5,712.73	7,184.48	----------
Quesnel	13,585.12	14,676.68	28,261.80	4,058.75	6,922.87	10,981.62	17,280.18
Sechelt	4,930.62	6,818.44	11,749.06	5,422.90	163.56	5,586.46	6,162.60
Shuswap Falls	45,238.55	38,662.43	83,900.98	10,589.49	5,685.46	16,274.95	67,626.03
Smithers	13,304.82	15,688.84	28,993.66	2,013.90	7,220.92	9,234.82	19,758.84
Terrace	10,098.47	8,333.57	18,432.04	3,903.21	2,641.21	6,544.42	11,887.62
Tofino-Ucluelet	----------	1,502.00	1,502.00	1,025.07	225.77	1,250.84	251.16
Vanderhoof	11,622.21	8,516.68	20,138.89	3,331.78	944.59	4,276.37	15,862.52
Whatshan	----------	25,335.69	25,335.69	171.98	----------	171.98	25,163.71
Williams Lake	3,411.90	7,532.56	10,944.46	3,897.60	1,063.00	4,960.60	5,983.86
Old plant	16,035.27	49,036.01	65.071.28	2,309.20	6,239.90	8,549.10	56,522.18
Totals	$332,439.45	$386,160.08	$718,599.53	$178,537.49	$89,092.06	$267,629.55	$450,969.98
Transmission Plant							
Interior system	$91,983.91	$85,445.92	$177,429.83	$17,733.33	$11,622.14	$29,355.47	$148,074.36
Vancouver Island system	73,148.86	73,190.82	146,339.68	39,363.82	363.79	39,727.61	106,612.07
Old plant	----------	1,800.00	1,800.00	----------	----------	----------	1,800.00
Totals	$165,132.77	$160,436.74	$325,569.51	$57,097.15	$11,985.93	$69,083.08	$256,486.43

MAINTENANCE AND RENEWALS RESERVE AS AT MARCH 31ST, 1952—*Continued* Statement 7—*Continued*

Undertaking	Reserve at Apr. 1, 1951	Provisions and Other Credits, 1951–52	Total Credits	M. & R. Charges, 1951–52	Retirements and Other Debits, 1951–52	Total Debits	Reserve at Mar. 31, 1952
Distribution Plant							
Alberni	$27,318.96	$34,588.31	$61,907.27	$18,884.76	$19,174.78	$38,059.54	$23,847.73
Alert Bay	47.63	3,726.40	3,774.03	918.82	338.19	1,257.01	2,517.02
Burns Lake	3,090.21	2,474.93	5,565.14	158.99	346.25	505.24	5,059.90
Campbell River	10,180.11	8,346.55	18,526.66	2,978.10	6,575.20	9,553.30	8,973.36
Comox Valley	12,137.95	29,310.01	41,447.96	12,025.81	25,455.78	37,481.59	3,966.37
Dawson Creek	7,141.03	10,516.14	17,657.17	1,391.70	1,537.57	2,929.27	14,727.90
Golden	2,417.96	1,950.04	4,368.00	351.83	779.90	1,131.73	3,236.27
Hazelton	1,897.71	1,623.96	3,521.67	19.25	207.00	226.25	3,295.42
Hope	6,689.88	830.04	7,519.92	1,743.37	5,776.55	7,519.92	.....
Houston	327.49	761.40	1,088.89	49.61	99.00	148.61	940.28
Kamloops	35,694.49	56,983.63	92,678.12	16,669.67	36,576.87	53,246.54	39,431.58
Lake Cowichan	1,869.49	6,233.12	8,102.61	3,587.73	2,133.50	5,721.23	2,381.38
Lake Windermere	2,467.19	5,575.37	8,042.56	9.00	263.18	272.18	7,770.38
Lillooet	1,359.54	398.11	1,757.65	1,131.42	626.23	1,757.65	.....
Merritt	893.50	2,818.12	3,711.62	578.13	20.15	598.28	3,113.34
Nakusp	6,340.56	1,987.18	8,327.74	46.45	185.62	232.07	8,095.67
Nanaimo-Duncan	47,174.69	128,159.45	175,334.14	55,553.86	39,995.22	95,549.08	79,785.06
North Okanagan	55,817.66	76,812.57	132,630.23	28,932.56	47,913.96	76,846.52	55,783.71
Peachland-Westbank	7,253.15	5,163.68	12,416.83	1,247.01	237.48	1,484.49	10,932.34
Quesnel	6,821.07	4,235.96	11,057.03	1,043.22	1,704.86	2,748.08	8,308.95
Sechelt	4,580.99	10,889.87	15,470.86	4,114.58	3,169.14	7,283.72	8,187.14
Smithers	8,700.92	5,480.24	14,181.16	934.34	1,103.02	2,037.36	12,143.80
Terrace	4,076.89	2,784.03	6,860.92	640.91	1,693.81	2,334.72	4,526.20
Tofino-Ucluelet	.....	2,510.60	2,510.60	198.03	254.89	452.92	2,057.68
Vanderhoof	1,015.33	2,378.40	3,393.73	35.41	397.00	432.41	2,961.32
Williams Lake	3,852.14	2,089.20	5,941.34	261.44	899.86	1,161.30	4,780.04
Meters	63,596.27	60,421.12	124,017.39	2,328.87	36,360.18	38,689.05	85,328.34
Totals	$322,762.81	$469,048.43	$791,811.24	$155,834.87	$233,825.19	$389,660.06	$402,151.18
General Plant							
Service buildings and equipment—							
Coastal region	$10,509.82	$2,118.85	$12,628.67	.....	$12,628.67	$12,628.67	.....
Interior region	4,874.79	.....	4,874.79	$356.75	4,518.04	4,874.79	.....
Head office—furniture and equipment	3,736.55	4,754.43	8,490.98	901.40	512.20	1,413.60	$7,077.38
Warehoue No. 1, Nanaimo	*—1.02*	2,588.23	2,587.21	1,750.87	170.00	1,920.87	666.34
Warehoue No. 2, Kamloops	548.84	430.24	979.08	73.12	.....	73.12	905.96

Warehoue No. 3, Vernon	77.98	2,726.84	2,804.82	166.48	----------	166.48	2,638.34
Old plant	----------	703.07	703.07	----------	----------	----------	703.07
	$19,746.96	$13,321.66	$33,068.62	$3,248.62	$17,828.91	$21,077.53	$11,991.09
Transportation equipment	$141,704.07	$69,298.62	$211,002.69	----------	$39,021.37	$39,021.37	$171,981.32
Tools and work equipment—							
Engineering Division	$31,341.17	$22,771.84	$54,113.01	$7,140.48	$19,026.48	$26,166.96	$27,946.05
Operations Division	12,696.29	11,977.09	24,673.38	8,678.09	2,082.34	10,760.43	13,912.95
Warehouse No. 1, Nanaimo	----------	555.70	555.70	15.77	235.29	251.06	304.64
Warehouse No. 2, Kamloops	177.18	59.04	236.22	----------	90.62	90.62	145.60
Warehouse No. 3, Vernon	155.96	55.30	211.26	20.49	81.00	101.49	109.77
	$44,370.60	$35,418.97	$79,789.57	$15,854.83	$21,515.73	$37,370.56	$42,419.01
Totals	$205,821.63	$118,039.25	$323,860.88	$19,103.45	$78,366.01	$97,469.46	$226,391.42
Summary							
Generating plant	$332,439.45	$386,160.08	$718,599.53	$178,537.49	$89,092.06	$267,629.55	$450,969.98
Transmission plant	165,132.77	160,436.74	325,569.51	57,097.15	11,985.93	69,083.08	256,486.43
Distribution plant	322,762.81	469,048.43	791,811.24	155,834.87	233,825.19	389,660.06	402,151.18
General plant	205,821.63	118,039.25	323,860.88	19,103.45	78,366.01	97,469.46	226,391.42
Totals	$1,026,156.66	$1,133,684.50	$2,159,841.16	$410,572.96	$413,269.19	$823,842.15	$1,335,999.01

VICTORIA, B.C.
Printed by DON MCDIARMID, Printer to the Queen's Most Excellent Majesty
1952

2,720-652-6088