For further information write to DBS Energy and Minerals Section, Ottowa or Interpresed 992-6014 Area Code 613

\$5.00 A YEAR

Catalogue No. 57-002 Vol. 4, No. 24 May 30, 1969

# CONTENTS

FOR REVIEW

Page

1.	Ages of Electric Generating Equipment in Operation at end of 1967	1
2.	Coal and Coke Statistics, March 1969	5
3.	Oil Pipe Line Transport, December, 1968	6

### 1. Ages of Electric Generating Equipment in Operation at the end of 1967

The oldest generating equipment in service in Canada as at Dec. 31, 1967 was installed in three different hydro-electric plants in the year 1900. The largest of these was Ottawa Hydro's Chaudière No. 4 plant on the Ottawa River which consists of two 3960 Kw. units. The other two are Renfrew Hydro's plant No. 2 on the Bonnechere River (960 Kw. in two units) and Ontario Hydro's Hanover plant on the Saugeen River (300 Kw. in two units).

The oldest thermal generating station is at Cowichan on Vancouver Island where B.C. Forest Products Ltd. operates a 750 Kw. unit which was installed in 1910. In contrast, the largest units being installed in Canada to-day have over 600 times this capacity.

6503-521



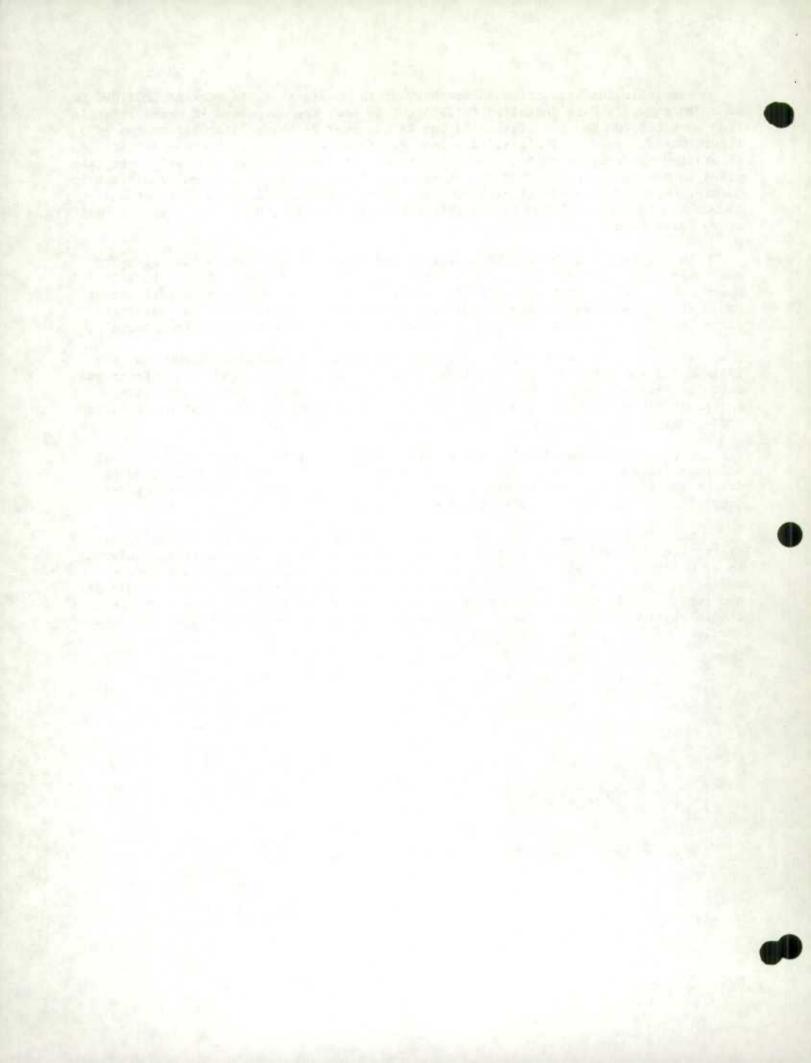
The following tabulation shows that, of the units still in service, 621,000 Kw. of hydro capacity were installed in 1925. This peak was surpassed 18 years later in 1943 when 668,000 Kw. were installed but it was over 25 years later before the 1925 figure was exceeded by a significant amount. Large additions to hydro-electric generating capacity in 1925 included 79,000 Kw. at Bowater Power Company's Deer Lake plant in Newfoundland, 224,000 Kw. at Saguenay Power Company's Isle Maligne plant in Quebec, 86,000 Kw. in additions to Ontario Hydro's Sir Adam Beck No. 1 plant and 53,000 Kw. in British Columbia Electric Company's (now B.C. Hydro and Power Authority) Stave Falls plant.

In the four year period between 1956 and 1960 almost 6,000,000 Kw. of hydro generating capacity were put into service. This represents over 25% of the total hydro installations in service at the end of 1967. It was during this period that major additions to generating capacity were made at the Beauharnois and Bersimis plants in Quebec and the Robert H. Saunders and Sir Adam Beck plants in Ontario.

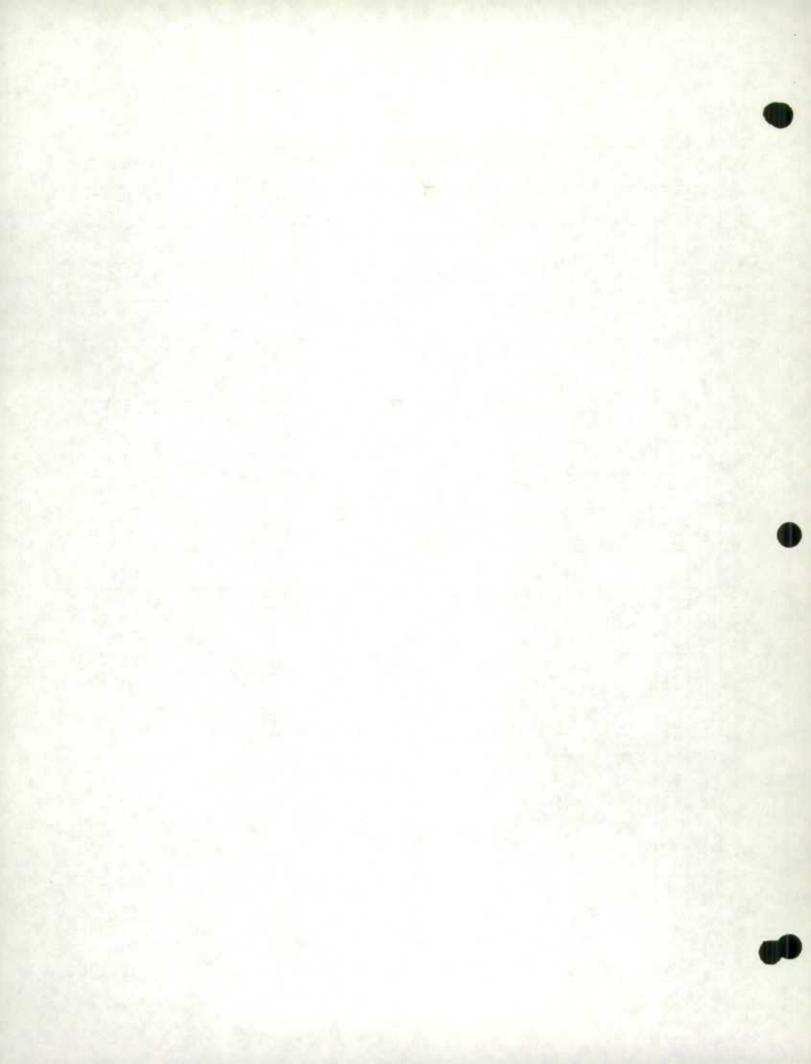
The first year that steam generating installations exceeded 100,000 Kw. was 1951. This was the year that the first units at Ontario Hydro's J. Clark Keith and Lakeview plants were put into service. The growth in use of thermal generating equipment since then has been phenomenal as evidenced by the fact that individual units installed in four plants in 1967 exceeded 100,000 Kw.

The first nuclear-fuelled steam generating station was placed in service at Rolphton (20,000 Kw.) in 1962. This was an experimental plant which was used to design the first full-scale nuclear plant (220,000 Kw.) which was constructed at Douglas Point and began generating electricity in 1967.

The tabulation which follows is based upon data contained in "Electric Power Statistics, Volume III - Inventory of Prime Mover and Electric Generating Equipment as at December 31, 1966", Catalogue No. 57-503 and in "Energy Statistics Service Bulletin," Catalogue No. 57-002, Volume 3 No. 48. The cumulative Canada totals do not represent the total installed capacity at the end of any particular year because the tabulation is not intended to account for equipment which might have gone out of service prior to December 31, 1967.



Year placed in service	Hydro	Thermal			Canada		Total for provinces											
		Steam	Internal combustion	Gas turbine	Total by	Cumulative total	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Yukon	N.W.T
				1				'000 F	w.							L		
			1		1													
1900	9				9	9						9				-		
1902	2	-		-	2	- 11	-	_		-	-	2	-	-		-	-	-
903	3		-	-	3	14	-	-	-	-	3	-	-	_	-	-		-
904	27	-	-		27	41		-	-	-	1	26	-	-		-	-	-
905	44	-	-		44	85		-	-	-	-	44		-	-	-	-	-
906	33				33	118	_					33						
907	36				36	154	-					25				11		
908	21				21	175	2		-			19	-			-		
909	25				25	200	3		_			22				-		
910	38	1			39	239	_				9	28	-		_	2		
710	30				-	237						20						
911	116			-	116	355	2	-	-		31	39	15	-	18	11	-	
.912	58	-	-	-	58	413	-	-		-	7	48	-	-		3	-	-
.913	88	-	-		88	501	-	-	-	-	26	46	-		7	9	-	-
.914	173		-	-	173	674	1	-	-	-	112	15	12	-	-	33	-	-
1915	77	2	-	-	79	753	-	-	-	-	54	23	-	-	-	2		
.916	109				109	862	1			_	75	24			-	9	_	
917	32				32	894	-	-	-		7	19	-	_	_	6		
918	50	2	_	_	52	946	1	_	-	2	18	25	-	_	-	6	-	-
919	10	11	-		21	967	-	_	11		3	7	-	-	-	_	-	
920	46	-	-	-	46	1,013	-	-		9	21	16	-		-	-		-
			1									2.0						
.921	84	-	-	-	84	1,097		-	7	7	32	38	~	-		-	3	
.922	248	2	-	-	250	1,347	3	-	-	1	69	153	16	-		5	3	
923	161	2	-	-	163	1,510	-	-	-4	2	41	56	60	-	-	4	-	
924	282 621	11	-		293 632	1,803	70	_			129 287	138 164	10	5		12 87		
925	021	1.7			032	2,435	79			_	207	104	10	1		07		
1926	151	1	_		152	2,587	2	-	1	4	87	11	22	-	-	25	-	-
927	199	18	-	-	217	2,804	4	-	10	-	156	20	22	-	5	-	-	
928	417	16	-	-	433	3,237	1	-		31	233	78	44	-	3	43	-	
.929	275	44	1	-	320	3,557	40	-	36	15	137	26	-	10	34		-	
.930	290	22	1000	9 -	312	3,869		-	4	23	101	80	-	47	-	57	-	
931	393	32		_	425	4, 294	13	2	6	16	145	132	96		3	12		
932	389	6		_	395	4,689	1	-	6	-	334	13	-		-	41	-	
933	178	-		H 10 11	178	4,867		_	-		95	83				7.		
934	203	3	_		206	5,073	_	_	3		202	-				1	_	
935	90	6	-	_	96	5,169		_	_	_	82	6	-	_		4	4	
						,,,,,,					-							
936	122	19	-	-	141	5,310	-	-	-	6	61	54	18	-	1	1	-	
937	119	60	-	-	179	5,489	-	-	21	14	81	28	-	33	-	2	-	
938	85	5	-	-	90	5,579	26	-	2	-	3	22	-	-	-	37	-	
939	90	14	-	-	104	5,683		-		-	68	1	-	20	15	-	-	
.940	195	33	1	-	229	5,912	-	1	1	-	150	41	1	-	-	35	-	
941	172		1		173	6,085				-	158	8				_	4	
942	210	4			214	6,299	5	_	8		122	56			17	6		
943	668	31			699	6,998	3		17	-	664	10			5			
	56	34			90	7,088	-		12	7	2	10			15			
944																		



Generator Nameplate Parings by Year Placed in Service Operating as of December 31, 1967 - Concluded

Year placed in service	Hydro	Thermal			Ca	ınada	Total for provinces											
		Steam	Internal combustion	Gas turbine	Total by year	Cumulative total	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Han.	Sask.	Alta.	B.C.	Yukon	N.W.T
								'000 K	w.									
1946	29	21	_	_	50	7,171		_	1	8		23	18					
1947	55	54	8	-	117	7,288	-	5	1	20	26	1		15	10	39	-	_
1948	338	64	5	-	407	7,695	1	_	5	12	95	140	19	24	17	87		
1949	348	85	5	-	438	8,133	1		22	4	137	23	26	20	35	170		_
1950	719	50	5	-	774	8,907	-	1	13	2	183	461	25	15	3	71		-
1951	690	239	5	***	934	9,841	12	_	45	10	371	304	28	6	71	87	_	
1952	730	325	11	-	1,066	10,907	9	7	20	3	346	491	101	15	8	63	3	-
1953	449	432	15	-	896	11,803	23	-	20	37	373	257	4	45	87	49		
1954	1,280	85	19	8	1,392	13, 195	9	-	22	2	50	679	57	27	51	495	-	-
1955	681	125	19	-	825	14,020	2	-	50	12	146	456	31	39	52	36	1	-
1956	615	159	31		805	14,825	3	-	15	25	276	74	-	18	101	293	_	_
1957	1,086	216	47	9	1,358	16,183	24	7	49	36	478	268	34	63	54	344	-	
1958	1,591	272	14	110	1,987	18,170	25	-	4	56	489	858	108	96	118	218	14	
1959	2,120	450	23	166	2,759	20,929	22	- 1-	80	-	1,331	835	2	152	39	297		
1960	1,164	718	31	91	2,004	22,933	13	12	15	13	820	420	267	90	182	160		1
1961	267	576	12	10	865	23,798	5	-	10	50	115	613	36	8	14	14	-	
1962	323	735(1)	35	7	1,100	24,898	96	-	6	43	195	428(1)	1	3	157	167		
1963	796	507	29	12	1,344	26, 242	103	22	-	61	284	334	6	143	83	304		
1964	268	500	20	_	788	27,030	1	-	-		352	301	-	83	37	12		
1965	1,426	739	32	79	2,276	29,306	4	-	104	45	900	524	328		160	192		1
1966	714	573	16	92	1,395	30,701	16	-	36	111	414	540		39	104	133	1	
1967	956	1,081(2)	39	210	2,286	32,987	235	-	28	126	416	525(2)	12	62	545	332	3	70
Total	23,356	8,413	424	794	32,987		794	57	695	813	11,607	10,269	1,429	1,078	2,051	4,103	33	5

<sup>(1)</sup> Includes 20,000 Kw. nuclear generating capacity.
(2) Includes 220,000 Kw. nuclear generating capacity.



#### 2. Coal and Coke Statistics, March 1969, Cat. No. 45-002

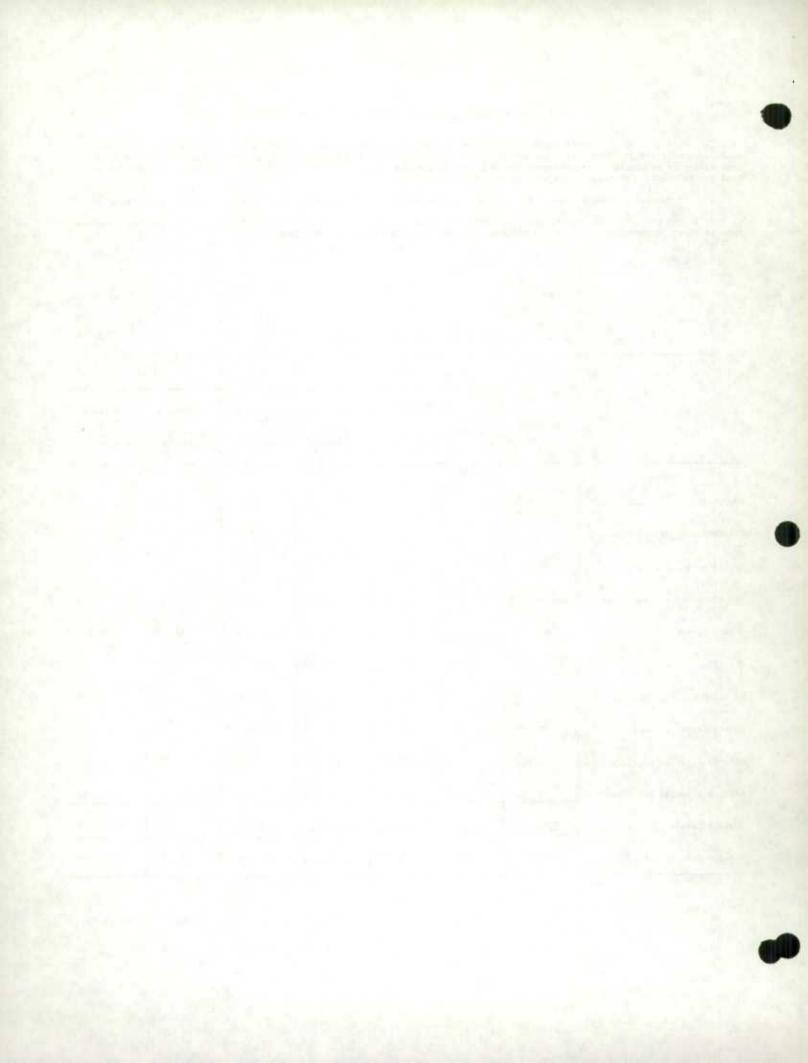
Coal production for the month of March 1969 amounted to 1,029,882 tons an increase of 2.8% from the March 1968 production of 1,002,267 tons, while landed imports were 86,871 tons compared with 85,987 tons for the month of March 1968. Consumption by industrial consumers amounted to 1,696,956 tons of coal and 555,024 of coke, an increase of 136,339 tons of coal and an increase of 12,204 tons of coke from last year.

Industrial consumers' stocks of coal and coke decreased to 3,595,501 tons from 3,986,264 tons in March 1968.

Coke production during the month of March 1969 increased to 487,313 tons from 482,490 tons in March 1968, while coke used in blast furnaces decreased to 388,677 tons from 391,222 tons during the same period.

#### Coal and Coke Statistics March 1969

312 - F			Coal			Co	Coke			
	Production	Landed imports	Shipments by coal operators (producers)	Consumption by industrial consumers	Stocks held by industrial consumers	Consumption by industrial consumers	Stocks held by industrial consumers			
				tons						
Newfoundland		-10.5			-	-	60			
Prince Edward Island	-	-		an.	•	-	, the s			
Nova Scotia	265,257	43,703	248,894	78,651	22,223	46,726	-			
New Brunswick	50,589		50,799	50,739	25,628	-	**			
Quebec	-	9,663	-	120,767	183,401	61,538	58, 259			
Ontario		32,192		1,015,233	2,856,153	419,337	112,392			
Manitoba	-	789	- A	37,762	92,479	136	256			
Saskatchewan	207,692	223	208,960	125,485	185,065		-			
Alberta	410,993	-	395,533	257,372	18,330	382	128			
British Columbia and Yukon	95,351	301	64,828	10,947	8,046	26,905	33,141			
Total Canada 1969	1,029,882	86,871	969,014	1,696,956	3,391,325	555,024	204,176			
Total Canada 1968	1,002,267	85,987	913,167	1,560,617	3,818,677	542,820	167,587			



# 3. 011 Pipe Line Transport, December 1968, Cat. No. 55-001

Oil movements by Canadian oil pipe lines increased by 11.4% in December 1968 with receipts of 58,117,739 barrels compared with 52,154,006 in the preceding year; import receipts increased to 12,241,850 barrels from 11,152,753.

Cumulative domestic receipts by Canadian oil pipe lines for the year 1968 increased by 8.0% over the previous year with domestic receipts amounting to 493,750,882 barrels compared with 457,206,147; import receipts by pipe lines amounted to 134,052,318 barrels compared with 116,489,601 in 1967. Total oil pipe line export deliveries rose to 172,817,490 barrels in 1968 from 154,397,355 in 1967.

Total traffic for December amounted to 25,758 million barrel miles with an average length of haul of 456.2 miles. For the year 1968 total traffic amounted to 282,529 million barrel miles with an average length of haul of 454.5 miles.

Oil Pipe Line Transport, December 1968

Supply and	Crude oil	Refined petroleum products	Total December	Total December	Cumulative Totals			
Disposition	equivalent	and L.P.G.'S.	1968	1967	1968	1967		
	barrels 35 Canadian gallons							
Net receipts								
DomesticImports	37,187,606 12,188,099	8,688,283 53,751	45,875,889 12,241,850	41,001,253 11,152,753	493,750,882 134,052,318	457,206,147 116,489,601		
Total net receipts	49,375,705	8,742,034	58,117,739	52,154,006	627,803,200	573,695,748		
Net deliveries								
Domestic	33,208,062 14,609,155	8,159,874 478,744	41,367,936 15,087,899	37,632,162 13,665,231	448,850,915 172,817,490	414,692,763 154,397,355		
Total net deliveries	47,817,217	8,638,618	56,455,835	51,297,393	621,668,405	569,090,118		
Inventory change	1,479,200	93,577	1,572,777	725,673	5,492,336	3,750,831		

STATISTICS CANADA LIBRARY
LELIOTIÉGUE STATISTIQUE CANADA
1010658859