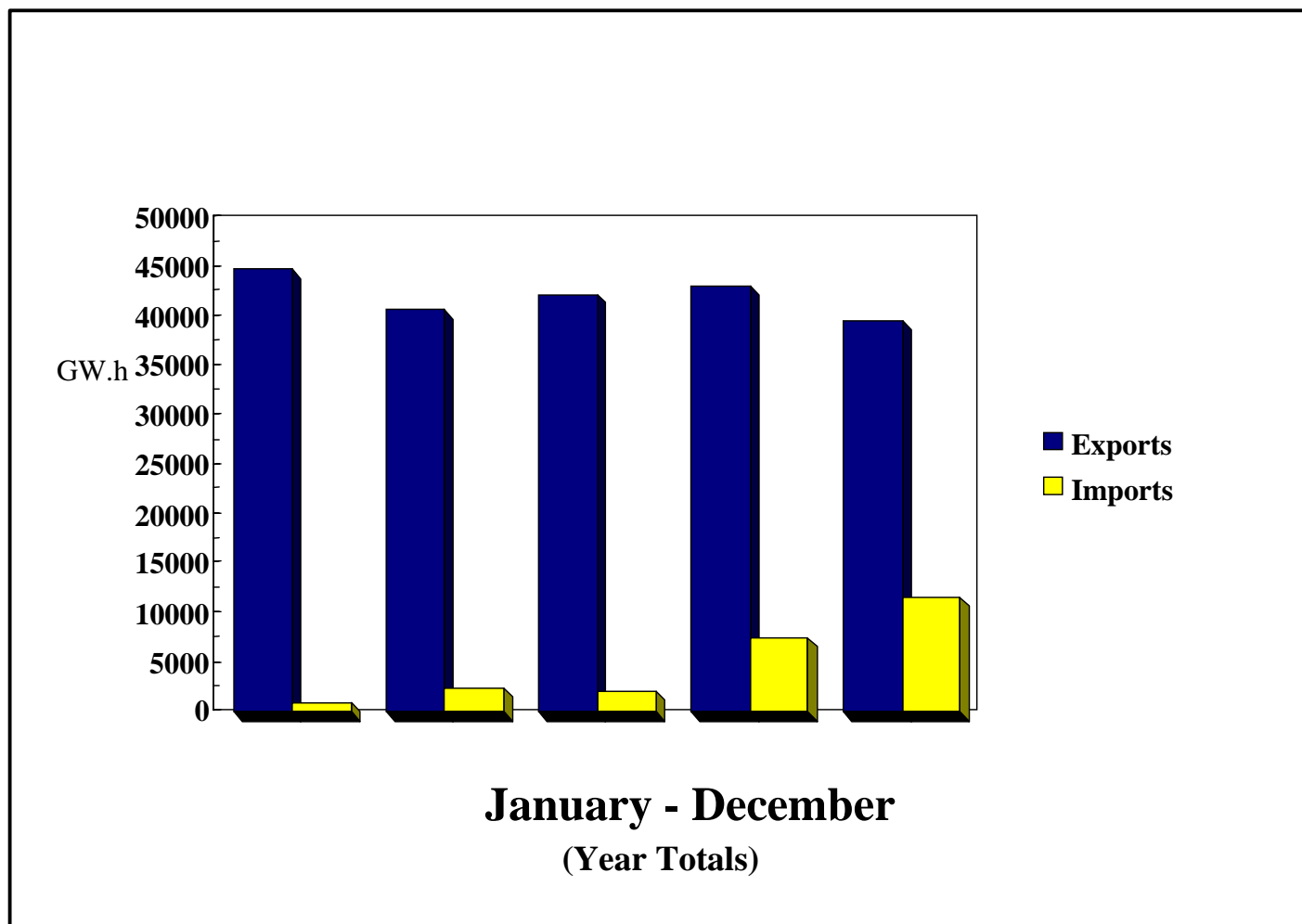




# Electricity Exports and Imports

## Monthly Statistics for: December 1998

Exports: 2535 GW.h  
Imports: 1047 GW.h





National Energy Board  
Office national de l'énergie

# TABLE 1

## Exports and Imports of Electricity

### Summary: Canada

#### DECEMBER 1998

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Exchange Type	Energy (MW.h)		Revenue (CAN\$) <sup>1</sup>		CAN\$/MW.h <sup>2</sup>	
	DEC98	JAN98 - DEC98	DEC98	JAN98 - DEC98	DEC98	L12M
<b>Exports of Electric Energy</b>						
Firm	1 335 369	19 761 709	60 427 775	870 566 254	31.79	31.57
Interruptible	1 199 809	19 740 399	49 354 475	735 287 242	41.25	36.01
Non-Revenue/Inadvertant	34 984	1 713 163	0	0	0.00	0.00
Service	89 324	1 008 934	64	708	0.00	0.00
<b>Total Exports</b>	<b>2 659 486</b>	<b>42 224 205</b>	<b>109 782 314</b>	<b>1 605 854 203</b>	<b>34.57</b>	<b>31.61</b>
Total Sales - Firm and Interruptible	2 535 178	39 502 108	109 782 250	1 605 853 495	36.26	33.79
<b>Imports of Electric Energy</b>						
Non-Revenue/Inadvertant	6 787	1 538 951	0	0	0.00	0.00
Purchase	1 047 044	11 683 276	34 558 371	313 192 296	29.98	23.63
Service	348 695	1 965 604	71 668	460 112	0.21	0.23
<b>Total Imports</b>	<b>1 402 525</b>	<b>15 187 831</b>	<b>34 630 039</b>	<b>313 652 409</b>	<b>22.43</b>	<b>18.21</b>
<b>Excess of Exports Over Imports</b>	<b>1 256 961</b>	<b>27 036 374</b>	<b>75 152 275</b>	<b>1 292 201 794</b>		
<b>Number of Export Licences:</b>	<b>16</b>					
<b>Number of Export Permits/Orders:</b>	<b>86</b>					
	<b>102</b>					

Footnotes:

1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:

- Revenue for Permit 92 not available.

*For further information, contact:*  
**Dave Walker,**  
**Research Officer,**  
**Energy Commodities Branch**  
**National Energy Board**  
**(403) 299 - 3171**



## TABLE 2A

### Export Summary Report

#### by Source, Authorization and Exchange Type

Source	Authorization	Exchange Type	Energy (MW.h)		Revenue (CAN\$) <sup>1</sup>		CAN\$/MW.h <sup>2</sup>		
			DEC98	JAN98 - DEC98	DEC98	JAN98 - DEC98	DEC98	L12M	
<b>Alberta</b>									
Enron Canada	Permit 98	I	0	887	0	15 504	0.00	17.48	
TransAlta Ener.	Permit 73	I	0	150	0	2 349	0.00	15.66	
	Permit 74	F	2 128	60 483	58 384	1 304 316	27.44	21.57	
<b>Subtotal Firm and Interruptible Exports: Alberta</b>			<b>2 128</b>	<b>61 520</b>	<b>58 384</b>	<b>1 322 168</b>	<b>27.44</b>	<b>21.49</b>	
<b>British Columbia</b>									
BC Hydro	Permit 105	F	76	992	10 527	58 382	138.81	58.87	
	Treaty	N	39 747	330 488	0	0	0.00	0.00	
BC Hydro/Powerx	Permit 43	I	0	5 489 294	0	224 550 228	0.00	40.91	
	Permit 44	F	0	179 632	0	4 912 349	0.00	27.35	
Cominco	Permit 57	I	24 044	237 720	1 003 002	8 758 829	41.72	36.85	
Powerex	Permit 71	F	0	25 650	0	1 083 626	0.00	42.25	
	Permit 92	F	85 560	760 160	0	0	0.00	0.00	
	Permit 95	F	650	75 585	40 665	2 940 057	62.56	38.90	
	Permit 116	I	0	200	0	8 869	0.00	44.35	
	Permit 118	I	560 235	2 096 035	26 027 097	80 333 035	46.46	38.33	

Footnotes:

1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

- F - Firm Sales
- I - Interruptible Sales
- P - Purchase (Import)
- N - Non-Revenue (Non-Revenue or Inadvertent)
- S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:

- Revenue for Permit 92 not available.



National Energy Board  
Office national de l'énergie

## TABLE 2A

### Export Summary Report

#### by Source, Authorization and Exchange Type

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Source	Authorization	Exchange Type	Energy (MW.h)		Revenue (CAN\$) <sup>1</sup>		CAN\$/MW.h <sup>2</sup>	
			DEC98	JAN98 - DEC98	DEC98	JAN98 - DEC98	DEC98	L12M
Powerex	Permit 119	F	21 427	64 995	605 139	1 851 459	28.24	28.49
West Kootenay	Permit 13	F	16	36	1 094	2 356	68.15	65.08
<b>Subtotal Firm and Interruptible Exports: British Columbia</b>			<b>692 008</b>	<b>8 930 299</b>	<b>27 687 524</b>	<b>324 499 191</b>	<b>40.01</b>	<b>36.34</b>
<b>Manitoba</b>								
Manitoba Hydro	Licence 170	F	284 458	3 318 319	13 178 941	160 796 504	23.32	24.60
	Permit 33	F	0	176 231	0	3 696 838	0.00	21.01
	Permit 34	F	0	145 900	0	3 210 998	0.00	22.01
	Permit 35	F	0	120 556	0	3 227 979	0.00	26.27
	Permit 45	F	38 425	1 844 780	1 024 153	53 551 457	26.49	25.80
	Permit 46	I	145 819	5 021 608	4 312 882	123 921 107	34.78	24.88
		N	- 214 008	-1 100 342	0	0	0.00	0.00
	Permit 52	F	0	28 264	0	1 595 606	0.00	26.25
	Permit 61	F	365	4 253	17 755	197 792	48.68	46.51
	Permit 68	F	10 795	111 651	571 665	5 997 144	26.02	23.68
	Permit 72	F	5	5	623	623	129.83	129.83
<b>Subtotal Firm and Interruptible Exports: Manitoba</b>			<b>479 867</b>	<b>10 771 567</b>	<b>19 106 018</b>	<b>356 196 048</b>	<b>27.14</b>	<b>24.86</b>
<b>New Brunswick</b>								

Footnotes:

1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

F - Firm Sales  
I - Interruptible Sales  
P - Purchase (Import)  
N - Non-Revenue (Non-Revenue or Inadvertent)  
S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:

- Revenue for Permit 92 not available.



## TABLE 2A Export Summary Report by Source, Authorization and Exchange Type

Source	Authorization	Exchange Type	Energy (MW.h)		Revenue (CAN\$) <sup>1</sup>		CAN\$/MW.h <sup>2</sup>	
			DEC98	JAN98 - DEC98	DEC98	JAN98 - DEC98	DEC98	L12M
Fraser Inc.	Permit 102	F	33 750	316 020	2 116 259	20 946 490	62.70	66.28
Maine & NB	Licence 177	F	4 480	92 365	158 479	2 534 791	16.40	16.40
NB Power	Permit 15	I	0	4 098	0	212 099	0.00	51.76
		N	586	119	0	0	0.00	0.00
	Permit 16	I	10 000	80 121	560 240	4 544 257	56.02	56.72
		N	-4 583	-63 322	0	0	0.00	0.00
	Permit 17	S	4 050	52 449	0	0	0.00	0.00
	Permit 18	I	592	28 889	31 291	1 415 071	52.86	48.98
		N	108	129	0	0	0.00	0.00
	Permit 28	F	4	34	534	4 086	119.99	121.84
	Permit 47	F	7 760	82 888	614 640	6 361 422	52.90	51.80
	Permit 90	F	0	9 685	0	328 655	0.00	33.93
Permit 91	I	327 309	3 768 656	12 101 955	149 511 730	36.33	38.67	
<b>Subtotal Firm and Interruptible Exports: New Brunswick</b>			<b>383 896</b>	<b>4 382 756</b>	<b>15 583 398</b>	<b>185 858 601</b>	<b>39.29</b>	<b>40.84</b>
<b>Ontario</b>								
Cdn. Niagara	Permit 84	F	31 176	287 748	884 218	8 345 871	28.36	29.00
	Permit 85	S	0	92 568	0	0	0.00	0.00
Cornwall Elec.	Permit 82	I	139	11 681	3 108	254 804	22.36	21.81
	Permit 83	S	25 369	255 355	0	0	0.00	0.00

Footnotes:

1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

- F - Firm Sales
- I - Interruptible Sales
- P - Purchase (Import)
- N - Non-Revenue (Non-Revenue or Inadvertent)
- S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:

- Revenue for Permit 92 not available.



## TABLE 2A Export Summary Report by Source, Authorization and Exchange Type

Source	Authorization	Exchange Type	Energy (MW.h)		Revenue (CAN\$) <sup>1</sup>		CAN\$/MW.h <sup>2</sup>	
			DEC98	JAN98 - DEC98	DEC98	JAN98 - DEC98	DEC98	L12M
D&W Subway	Permit 26	F	168	1 762	0	0	0.00	0.00
Ont. Hydro/OHIM	Permit 21	I	114 481	2 301 817	4 102 103	113 185 993	32.35	39.93
		S	54 826	185 715	64	708	0.00	0.00
Ontario Hydro	Permit 22	N	214 218	2 538 631	0	0	0.00	0.00
		F	18	185	36	369	2.00	2.00
		F	0	38	0	641	0.00	8.02
<b>Subtotal Firm and Interruptible Exports: Ontario</b>			<b>145 982</b>	<b>2 603 231</b>	<b>4 989 465</b>	<b>121 787 677</b>	<b>31.45</b>	<b>38.62</b>
<b>Quebec</b>								
Hydro-Quebec	Licence 176	F	264 441	5 535 093	8 976 138	188 474 065	33.94	34.05
		F	0	1 811 840	0	77 541 735	0.00	35.96
		F	112 714	972 671	10 143 152	102 739 623	39.60	38.15
		F	36 732	343 114	3 120 028	46 033 714	39.60	36.85
		F	17 927	168 193	1 527 488	15 904 866	39.60	38.46
		F	28 786	243 079	2 662 385	26 950 965	39.60	38.58
		F	16 624	128 442	1 473 929	14 304 997	39.60	38.52
		F	203	1 248	14 375	88 289	70.82	70.77
		I	16 263	630 961	1 175 899	25 993 024	71.31	40.69
		N	227	37 784	0	0	0.00	0.00
S	5 079	352 647	0	0	0.00	0.00		

Footnotes:

1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

- F - Firm Sales
- I - Interruptible Sales
- P - Purchase (Import)
- N - Non-Revenue (Non-Revenue or Inadvertent)
- S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:

- Revenue for Permit 92 not available.



## TABLE 2A Export Summary Report by Source, Authorization and Exchange Type

Source	Authorization	Exchange Type	Energy (MW.h)		Revenue (CAN\$) <sup>1</sup>		CAN\$/MW.h <sup>2</sup>		
			DEC98	JAN98 - DEC98	DEC98	JAN98 - DEC98	DEC98	L12M	
Hydro-Quebec	Permit 65	F	335 417	2 718 194	13 172 843	110 335 894	38.23	38.26	
		S	0	3 950	0	0	0.00	0.00	
Maclaren Ind.	Permit 111	I	0	3 205	0	156 862	0.00	48.94	
<b>Subtotal Firm and Interruptible Exports: Quebec</b>			<b>829 107</b>	<b>12 556 040</b>	<b>42 266 238</b>	<b>608 524 035</b>	<b>37.87</b>	<b>36.16</b>	
<b>Saskatchewan</b>									
Powerex	Permit 116	I	864	864	34 628	34 628	40.08	40.08	
Sask. Power	Licence 118	S	0	66 250	0	0	0.00	0.00	
		Licence 119	I	63	64 213	2 270	2 388 854	36.03	37.20
			N	-1 311	-30 325	0	0	0.00	0.00
	Permit 89	F	1 264	131 619	54 325	5 242 295	42.98	39.83	
<b>Subtotal Firm and Interruptible Exports: Saskatchewan</b>			<b>2 191</b>	<b>196 696</b>	<b>91 223</b>	<b>7 665 776</b>	<b>41.64</b>	<b>38.97</b>	
<b>Total Firm and Interruptible Exports:</b>			<b>2 535 178</b>	<b>39 502 108</b>	<b>109 782 250</b>	<b>1 605 853 495</b>	<b>36.26</b>	<b>33.79</b>	

Footnotes:

1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

- F - Firm Sales
- I - Interruptible Sales
- P - Purchase (Import)
- N - Non-Revenue (Non-Revenue or Inadvertent)
- S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:

- Revenue for Permit 92 not available.



## TABLE 2B

### Import Summary Report

#### by Destination, Authorization and Exchange Type

Destination	Authorization	Exchange Type	Energy (MW.h)		Revenue (CAN\$) <sup>1</sup>		CAN\$/MW.h <sup>2</sup>	
			DEC98	JAN98 - DEC98	DEC98	JAN98 - DEC98	DEC98	L12M
<b>Alberta</b>								
Enron Canada	-	P	0	23 021	0	563 161	0.00	24.46
TransAlta		P	259	2 688	11 414	108 441	44.08	40.34
TransAlta Ener.		P	1 479	158 728	57 134	3 976 612	38.63	25.05
TransCanada		P	0	2 202	0	55 595	0.00	25.25
<b>Subtotal Purchased Imports: Alberta</b>			<b>1 738</b>	<b>186 639</b>	<b>68 548</b>	<b>4 703 809</b>	<b>39.44</b>	<b>25.20</b>
<b>British Columbia</b>								
BC Hydro		P	0	253	0	17 597	0.00	69.55
BC Hydro/Powerx		P	0	3 420 543	0	68 064 514	0.00	19.90
Powerex		P	345 923	803 556	11 281 868	24 758 701	32.61	30.81
West Kootenay		P	3 205	87 317	659 203	3 477 618	102.53	26.46
<b>Subtotal Purchased Imports: British Columbia</b>			<b>349 128</b>	<b>4 311 669</b>	<b>11 941 071</b>	<b>96 318 430</b>	<b>33.26</b>	<b>22.07</b>

Footnotes:

1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

- F - Firm Sales
- I - Interruptible Sales
- P - Purchase (Import)
- N - Non-Revenue (Non-Revenue or Inadvertent)
- S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:

- Revenue for Permit 92 not available.





## TABLE 2B Import Summary Report by Destination, Authorization and Exchange Type

Destination	Authorization	Exchange Type	Energy (MW.h)		Revenue (CAN\$) <sup>1</sup>		CAN\$/MW.h <sup>2</sup>	
			DEC98	JAN98 - DEC98	DEC98	JAN98 - DEC98	DEC98	L12M
<b>Manitoba</b>								
Manitoba Hydro	-	N	- 217 421	-1 095 662	0	0	0.00	0.00
		P	282 676	1 162 775	6 635 021	28 108 520	23.45	23.66
<b>Subtotal Purchased Imports: Manitoba</b>			<b>282 676</b>	<b>1 162 775</b>	<b>6 635 021</b>	<b>28 108 520</b>	<b>23.45</b>	<b>23.66</b>
<b>New Brunswick</b>								
Maine & NB		P	653	5 854	23 200	249 793	35.53	42.67
NB Power		N	5 170	66 323	0	0	0.00	0.00
		P	0	3 682	0	49 785	0.00	13.52
		S	4 050	52 449	0	0	0.00	0.00
<b>Subtotal Purchased Imports: New Brunswick</b>			<b>653</b>	<b>9 536</b>	<b>23 200</b>	<b>299 578</b>	<b>35.53</b>	<b>31.42</b>
<b>Ontario</b>								
Cdn. Niagara		N	339	7 583	0	0	0.00	0.00
Cornwall Elec.		P	947	8 956	207 519	1 121 053	219.13	125.17
		S	25 369	255 355	0	0	0.00	0.00

Footnotes:

1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

- F - Firm Sales
- I - Interruptible Sales
- P - Purchase (Import)
- N - Non-Revenue (Non-Revenue or Inadvertent)
- S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:

- Revenue for Permit 92 not available.



## TABLE 2B Import Summary Report by Destination, Authorization and Exchange Type

Destination	Authorization	Exchange Type	Energy (MW.h)		Revenue (CAN\$) <sup>1</sup>		CAN\$/MW.h <sup>2</sup>	
			DEC98	JAN98 - DEC98	DEC98	JAN98 - DEC98	DEC98	L12M
D&W Subway	-	P	147	1 604	0	0	0.00	0.00
Ont. Hydro/OHIM		P	1 351	165 448	26 761	6 822 073	19.81	41.23
Ontario Hydro		N	214 838	2 533 539	0	0	0.00	0.00
		P	158 374	4 371 359	4 436 265	91 753 072	28.01	20.95
		S	67 208	466 204	71 668	460 112	1.07	0.99
<b>Subtotal Purchased Imports: Ontario</b>			<b>160 819</b>	<b>4 547 367</b>	<b>4 670 544</b>	<b>99 696 199</b>	<b>29.04</b>	<b>21.88</b>
<b>Quebec</b>								
Hydro-Quebec		N	4 888	79 063	0	0	0.00	0.00
		P	180 347	1 027 466	9 205 719	70 857 536	35.35	34.71
		S	252 068	1 151 596	0	0	0.00	0.00
<b>Subtotal Purchased Imports: Quebec</b>			<b>180 347</b>	<b>1 027 466</b>	<b>9 205 719</b>	<b>70 857 536</b>	<b>35.35</b>	<b>34.71</b>
<b>Saskatchewan</b>								
Sask. Power		N	-1 027	-51 895	0	0	0.00	0.00
		P	71 683	437 824	2 014 269	13 208 224	28.10	30.17
		S	0	40 000	0	0	0.00	0.00
<b>Subtotal Purchased Imports: Saskatchewan</b>			<b>71 683</b>	<b>437 824</b>	<b>2 014 269</b>	<b>13 208 224</b>	<b>28.10</b>	<b>30.17</b>
<b>Total Purchased Imports:</b>			<b>1 047 044</b>	<b>11 683 276</b>	<b>34 558 371</b>	<b>313 192 296</b>	<b>29.98</b>	<b>23.63</b>

Footnotes:

1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

- F - Firm Sales
- I - Interruptible Sales
- P - Purchase (Import)
- N - Non-Revenue (Non-Revenue or Inadvertent)
- S - Service (Spinning Reserve, Storage, Unit Rental, Transmission, etc.)

Additional Notes:

- Revenue for Permit 92 not available.



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## TABLE 3A

### Export Sales Summary Report by Destination and Source

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Destination	Source	Energy (MW.h)		Revenue (CAN\$) <sup>1</sup>		CAN\$/MW.h <sup>2</sup>	
		DEC98	JAN98 - DEC98	DEC98	JAN98 - DEC98	DEC98	L12M
<b>Alaska</b>	British Columbia	76	992	10 527	58 382	138.81	58.87
<b>Subtotal Exports: Alaska</b>		<b>76</b>	<b>992</b>	<b>10 527</b>	<b>58 382</b>	<b>138.81</b>	<b>58.87</b>
<b>Arizona</b>	British Columbia	0	4 000	0	117 972	0.00	29.49
<b>Subtotal Exports: Arizona</b>		<b>0</b>	<b>4 000</b>	<b>0</b>	<b>117 972</b>	<b>0.00</b>	<b>29.49</b>
<b>California</b>	British Columbia	77 439	1 341 006	5 824 958	80 198 438	75.22	59.80
<b>Subtotal Exports: California</b>		<b>77 439</b>	<b>1 341 006</b>	<b>5 824 958</b>	<b>80 198 438</b>	<b>75.22</b>	<b>59.80</b>
<b>Colorado</b>	British Columbia	0	1 200	0	55 222	0.00	46.02
<b>Subtotal Exports: Colorado</b>		<b>0</b>	<b>1 200</b>	<b>0</b>	<b>55 222</b>	<b>0.00</b>	<b>46.02</b>
<b>Idaho</b>	British Columbia	11 361	148 443	637 600	6 518 971	56.12	43.92
<b>Subtotal Exports: Idaho</b>		<b>11 361</b>	<b>148 443</b>	<b>637 600</b>	<b>6 518 971</b>	<b>56.12</b>	<b>43.92</b>
<b>Iowa</b>	Manitoba	1 380	107 888	57 279	2 094 624	41.51	19.38
<b>Subtotal Exports: Iowa</b>		<b>1 380</b>	<b>107 888</b>	<b>57 279</b>	<b>2 094 624</b>	<b>41.51</b>	<b>19.38</b>
<b>Kansas</b>	Manitoba	175	3 700	6 428	110 953	36.73	29.99
<b>Subtotal Exports: Kansas</b>		<b>175</b>	<b>3 700</b>	<b>6 428</b>	<b>110 953</b>	<b>36.73</b>	<b>29.99</b>
<b>Maine</b>	New Brunswick	383 896	4 382 756	15 583 398	185 858 601	39.29	40.84
<b>Subtotal Exports: Maine</b>		<b>383 896</b>	<b>4 382 756</b>	<b>15 583 398</b>	<b>185 858 601</b>	<b>39.29</b>	<b>40.84</b>
<b>Michigan</b>	Ontario	32 918	2 027 472	1 541 810	98 868 954	36.11	39.75
<b>Subtotal Exports: Michigan</b>		<b>32 918</b>	<b>2 027 472</b>	<b>1 541 810</b>	<b>98 868 954</b>	<b>36.11</b>	<b>39.75</b>
<b>Minnesota</b>	Manitoba	430 283	8 889 492	17 445 636	303 329 021	26.42	24.92
	Ontario	6 399	56 901	221 196	4 793 044	34.57	63.43

Footnotes:

1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:

- Revenue for Permit 92 not available.



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## TABLE 3A

### Export Sales Summary Report by Destination and Source

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Destination	Source	Energy (MW.h)		Revenue (CAN\$) <sup>1</sup>		CAN\$/MW.h <sup>2</sup>	
		DEC98	JAN98 - DEC98	DEC98	JAN98 - DEC98	DEC98	L12M
<b>Minnesota</b>	Saskatchewan	400	7 494	16 864	283 097	42.16	37.78
<b>Subtotal Exports: Minnesota</b>		<b>437 082</b>	<b>8 953 887</b>	<b>17 683 696</b>	<b>308 405 162</b>	<b>26.56</b>	<b>25.18</b>
<b>Missouri</b>	Manitoba	0	599	0	22 627	0.00	37.77
<b>Subtotal Exports: Missouri</b>		<b>0</b>	<b>599</b>	<b>0</b>	<b>22 627</b>	<b>0.00</b>	<b>37.77</b>
<b>Montana</b>	British Columbia	245	25 442	15 412	1 307 712	62.91	51.40
	Manitoba	0	534	0	24 053	0.00	45.04
	Saskatchewan	864	864	34 628	34 628	40.08	40.08
<b>Subtotal Exports: Montana</b>		<b>1 109</b>	<b>26 840</b>	<b>50 040</b>	<b>1 366 393</b>	<b>45.12</b>	<b>50.91</b>
<b>Nebraska</b>	Manitoba	325	29 602	11 938	819 156	36.73	27.67
<b>Subtotal Exports: Nebraska</b>		<b>325</b>	<b>29 602</b>	<b>11 938</b>	<b>819 156</b>	<b>36.73</b>	<b>27.67</b>
<b>New England</b>	Ontario	0	41 364	0	996 197	0.00	24.08
	Quebec	571 403	8 360 684	20 834 444	295 467 920	36.46	35.34
<b>Subtotal Exports: New England</b>		<b>571 403</b>	<b>8 402 048</b>	<b>20 834 444</b>	<b>296 464 117</b>	<b>36.46</b>	<b>35.28</b>
<b>New York</b>	Ontario	104 906	466 529	3 164 498	16 447 051	29.73	31.37
	Quebec	403	2 033 267	24 554	89 051 822	60.93	37.70
<b>Subtotal Exports: New York</b>		<b>105 309</b>	<b>2 499 796</b>	<b>3 189 052</b>	<b>105 498 873</b>	<b>29.85</b>	<b>36.52</b>
<b>North Dakota</b>	Manitoba	1 250	139 367	40 000	6 526 718	32.00	33.16
	Saskatchewan	63	84 424	2 270	3 872 422	36.03	45.87
<b>Subtotal Exports: North Dakota</b>		<b>1 313</b>	<b>223 791</b>	<b>42 269</b>	<b>10 399 139</b>	<b>32.19</b>	<b>37.95</b>
<b>Oregon</b>	Alberta	100	982	2 562	25 119	25.62	25.58
	British Columbia	72 172	703 421	2 774 124	22 645 140	38.44	32.19
<b>Subtotal Exports: Oregon</b>		<b>72 272</b>	<b>704 403</b>	<b>2 776 686</b>	<b>22 670 259</b>	<b>38.42</b>	<b>32.18</b>

Footnotes:

1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:

- Revenue for Permit 92 not available.



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## TABLE 3A Export Sales Summary Report by Destination and Source

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Destination	Source	Energy (MW.h)		Revenue (CAN\$) <sup>1</sup>		CAN\$/MW.h <sup>2</sup>	
		DEC98	JAN98 - DEC98	DEC98	JAN98 - DEC98	DEC98	L12M
<b>Pennsylvania</b>	Ontario	1 759	10 965	61 961	682 431	35.22	62.24
<b>Subtotal Exports: Pennsylvania</b>		<b>1 759</b>	<b>10 965</b>	<b>61 961</b>	<b>682 431</b>	<b>35.22</b>	<b>62.24</b>
<b>South Dakota</b>	Manitoba	3	22 372	138	479 072	45.92	21.41
<b>Subtotal Exports: South Dakota</b>		<b>3</b>	<b>22 372</b>	<b>138</b>	<b>479 072</b>	<b>45.92</b>	<b>21.41</b>
<b>Texas</b>	Manitoba	10 955	738 005	386 887	22 438 165	35.32	24.13
<b>Subtotal Exports: Texas</b>		<b>10 955</b>	<b>738 005</b>	<b>386 887</b>	<b>22 438 165</b>	<b>35.32</b>	<b>24.13</b>
<b>Utah</b>	British Columbia	144	1 544	9 918	66 836	68.87	43.29
<b>Subtotal Exports: Utah</b>		<b>144</b>	<b>1 544</b>	<b>9 918</b>	<b>66 836</b>	<b>68.87</b>	<b>43.29</b>
<b>Vermont</b>	Quebec	257 301	2 162 089	21 407 240	224 004 293	40.97	37.90
<b>Subtotal Exports: Vermont</b>		<b>257 301</b>	<b>2 162 089</b>	<b>21 407 240</b>	<b>224 004 293</b>	<b>40.97</b>	<b>37.90</b>
<b>Washington</b>	Alberta	2 028	60 538	55 822	1 297 049	27.53	21.43
	British Columbia	530 571	6 704 251	18 414 987	213 530 518	34.71	31.85
	Saskatchewan	864	103 914	37 461	3 475 630	43.36	33.45
<b>Subtotal Exports: Washington</b>		<b>533 463</b>	<b>6 868 703</b>	<b>18 508 270</b>	<b>218 303 197</b>	<b>34.69</b>	<b>31.78</b>
<b>Wisconsin</b>	Manitoba	35 496	840 008	1 157 712	20 351 660	32.44	24.15
<b>Subtotal Exports: Wisconsin</b>		<b>35 496</b>	<b>840 008</b>	<b>1 157 712</b>	<b>20 351 660</b>	<b>32.44</b>	<b>24.15</b>
<b>Total Exports</b>		<b>2 535 178</b>	<b>39 502 108</b>	<b>109 782 250</b>	<b>1 605 853 495</b>	<b>36.26</b>	<b>33.79</b>

Footnotes:

1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:

- Revenue for Permit 92 not available.



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## TABLE 3B

### Import Purchases Summary Report by Source and Destination

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Source	Destination	Energy (MW.h)		Revenue (CAN\$) <sup>1</sup>		CAN\$/MW.h <sup>2</sup>	
		DEC98	JAN98 - DEC98	DEC98	JAN98 - DEC98	DEC98	L12M
<b>Idaho</b>	Alberta	0	70	0	5 534	0.00	79.06
<b>Subtotal Imports: Idaho</b>		<b>0</b>	<b>70</b>	<b>0</b>	<b>5 534</b>	<b>0.00</b>	<b>79.06</b>
<b>Iowa</b>	Manitoba	26 300	41 264	678 310	1 228 172	25.79	29.76
<b>Subtotal Imports: Iowa</b>		<b>26 300</b>	<b>41 264</b>	<b>678 310</b>	<b>1 228 172</b>	<b>25.79</b>	<b>29.76</b>
<b>Maine</b>	New Brunswick	653	9 536	23 200	299 578	35.53	31.42
<b>Subtotal Imports: Maine</b>		<b>653</b>	<b>9 536</b>	<b>23 200</b>	<b>299 578</b>	<b>35.53</b>	<b>31.42</b>
<b>Michigan</b>	Ontario	156 676	3 561 049	4 391 667	64 090 467	28.03	18.00
<b>Subtotal Imports: Michigan</b>		<b>156 676</b>	<b>3 561 049</b>	<b>4 391 667</b>	<b>64 090 467</b>	<b>28.03</b>	<b>18.00</b>
<b>Minnesota</b>	Manitoba	199 715	949 536	4 709 175	22 615 042	23.58	23.56
	Ontario	1 045	67 322	22 632	1 838 554	21.66	27.31
	Saskatchewan	0	900	0	31 337	0.00	34.82
<b>Subtotal Imports: Minnesota</b>		<b>200 760</b>	<b>1 017 758</b>	<b>4 731 807</b>	<b>24 484 934</b>	<b>23.57</b>	<b>23.82</b>
<b>Missouri</b>	Manitoba	300	314	6 084	7 852	20.28	25.01
<b>Subtotal Imports: Missouri</b>		<b>300</b>	<b>314</b>	<b>6 084</b>	<b>7 852</b>	<b>20.28</b>	<b>25.01</b>
<b>Montana</b>	Alberta	259	3 600	11 414	149 241	44.08	41.46
	British Columbia	0	253	0	17 597	0.00	69.55
	Manitoba	300	300	6 199	6 199	20.66	20.66
<b>Subtotal Imports: Montana</b>		<b>559</b>	<b>4 153</b>	<b>17 612</b>	<b>173 037</b>	<b>31.51</b>	<b>41.67</b>
<b>Nebraska</b>	Manitoba	23 975	77 840	468 119	1 782 846	19.27	21.69
<b>Subtotal Imports: Nebraska</b>		<b>23 975</b>	<b>77 840</b>	<b>468 119</b>	<b>1 782 846</b>	<b>19.27</b>	<b>21.69</b>

Footnotes:

1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:

- Revenue for Permit 92 not available.



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## TABLE 3B

### Import Purchases Summary Report by Source and Destination

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Source	Destination	Energy (MW.h)		Revenue (CAN\$) <sup>1</sup>		CAN\$/MW.h <sup>2</sup>	
		DEC98	JAN98 - DEC98	DEC98	JAN98 - DEC98	DEC98	L12M
<b>New England</b>	Quebec	26 100	37 431	764 777	2 115 868	29.30	56.53
<b>Subtotal Imports: New England</b>		<b>26 100</b>	<b>37 431</b>	<b>764 777</b>	<b>2 115 868</b>	<b>29.30</b>	<b>56.53</b>
<b>New York</b>	Ontario	1 747	744 173	229 485	26 515 925	131.36	35.38
	Quebec	135 282	929 350	4 869 459	31 126 231	35.99	33.49
<b>Subtotal Imports: New York</b>		<b>137 029</b>	<b>1 673 523</b>	<b>5 098 944</b>	<b>57 642 157</b>	<b>37.21</b>	<b>34.33</b>
<b>North Dakota</b>	Manitoba	5 661	10 949	125 291	226 909	22.13	20.72
	Saskatchewan	71 558	413 115	2 007 178	12 220 307	28.05	29.58
<b>Subtotal Imports: North Dakota</b>		<b>77 219</b>	<b>424 064</b>	<b>2 132 469</b>	<b>12 447 217</b>	<b>27.62</b>	<b>29.35</b>
<b>Oregon</b>	Alberta	1 269	112 999	50 962	2 638 501	40.16	23.35
	British Columbia	0	110	0	3 124	0.00	28.40
<b>Subtotal Imports: Oregon</b>		<b>1 269</b>	<b>113 109</b>	<b>50 962</b>	<b>2 641 625</b>	<b>40.16</b>	<b>23.35</b>
<b>Pennsylvania</b>	Ontario	1 351	174 823	26 761	7 251 252	19.81	41.48
<b>Subtotal Imports: Pennsylvania</b>		<b>1 351</b>	<b>174 823</b>	<b>26 761</b>	<b>7 251 252</b>	<b>19.81</b>	<b>41.48</b>
<b>South Dakota</b>	Alberta	0	3 225	0	124 188	0.00	38.51
	Manitoba	5 315	49 084	105 536	1 135 806	19.86	23.14
<b>Subtotal Imports: South Dakota</b>		<b>5 315</b>	<b>52 309</b>	<b>105 536</b>	<b>1 259 994</b>	<b>19.86</b>	<b>24.09</b>
<b>Texas</b>	Manitoba	0	0	0	257 028	0.00	0.00
<b>Subtotal Imports: Texas</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>257 028</b>	<b>0.00</b>	<b>0.00</b>
<b>Vermont</b>	Quebec	18 965	60 685	3 571 483	37 615 436	39.06	39.92
<b>Subtotal Imports: Vermont</b>		<b>18 965</b>	<b>60 685</b>	<b>3 571 483</b>	<b>37 615 436</b>	<b>39.06</b>	<b>39.92</b>

Footnotes:

1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:

- Revenue for Permit 92 not available.



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## TABLE 3B

### Import Purchases Summary Report by Source and Destination

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Source	Destination	Energy (MW.h)		Revenue (CAN\$) <sup>1</sup>		CAN\$/MW.h <sup>2</sup>	
		DEC98	JAN98 - DEC98	DEC98	JAN98 - DEC98	DEC98	L12M
<b>Washington</b>	Alberta	210	66 745	6 172	1 786 345	29.39	26.76
	British Columbia	349 128	4 311 306	11 941 071	96 297 709	33.26	22.07
	Saskatchewan	125	23 809	7 091	956 579	56.72	40.18
<b>Subtotal Imports: Washington</b>		<b>349 463</b>	<b>4 401 860</b>	<b>11 954 333</b>	<b>99 040 634</b>	<b>33.26</b>	<b>22.23</b>
<b>Wisconsin</b>	Manitoba	21 110	33 488	536 308	848 666	25.41	25.34
<b>Subtotal Imports: Wisconsin</b>		<b>21 110</b>	<b>33 488</b>	<b>536 308</b>	<b>848 666</b>	<b>25.41</b>	<b>25.34</b>
<b>Total Imports</b>		<b>1 047 044</b>	<b>11 683 276</b>	<b>34 558 371</b>	<b>313 192 296</b>	<b>29.98</b>	<b>23.63</b>

Footnotes:

1. Includes capacity and energy charges.
2. Average value for the month and the last 12 months (excludes capacity charge).

Additional Notes:

- Revenue for Permit 92 not available.





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**TABLE 4**  
**Source of Production Report <sup>1</sup>**  
**Canadian Exports**

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<b>Fuel Type</b>	<b>DEC98</b>		
	<b>Energy (MW.h)</b>	<b>Revenue (CAN\$) <sup>2</sup></b>	<b>CAN\$/MW.h <sup>2</sup></b>
Canadian Coal	5 108	196 045	38.38
Canadian Oil	38	2 190	57.47
Hydraulic	1 326 108	45 452 822	34.28
Imported Coal	146 147	4 857 841	33.24
Imported Oil	232 463	8 693 164	37.40
Other	753 587	29 556 729	39.22
<b>Total</b>	<b>2 463 451</b>	<b>88 758 790</b>	<b>36.03</b>

Footnotes:

1. Source of production data filed by major exporters only.
2. Revenue figures are for illustrative purposes only and are strictly allocatable by energy source.

Additional Notes:

- Revenue for Permit 92 not available.



## TABLE 5 Source of Production Report <sup>1</sup> by Exporter

Exporter	Fuel Type	Authorization	DEC98		
			Energy (MW.h)	Revenue (CAN\$) <sup>2</sup>	CAN\$/MW.h <sup>2</sup>
Cominco	Hydraulic	Permit 57	24 044	1 003 002	41.72
		<b>Subtotal</b>	<b>24 044</b>	<b>1 003 002</b>	<b>41.72</b>
		<b>Subtotal</b>	<b>24 044</b>	<b>1 003 002</b>	<b>41.72</b>
Hydro-Quebec	Hydraulic	Licence 176	264 441	8 976 138	33.94
		Licence 180	112 714	4 463 891	39.60
		Licence 181	36 732	1 454 723	39.60
		Licence 182	17 927	709 975	39.60
		Licence 183	28 786	1 140 032	39.60
		Licence 184	16 624	658 372	39.60
		Permit 64	16 263	1 159 706	71.31
		Permit 65	335 417	12 824 177	38.23
		<b>Subtotal</b>	<b>828 904</b>	<b>31 387 015</b>	<b>37.87</b>
<b>Subtotal</b>	<b>828 904</b>	<b>31 387 015</b>	<b>37.87</b>		
Manitoba Hydro	Hydraulic	Licence 170	196 381	4 580 551	23.33
		<b>Subtotal</b>	<b>196 381</b>	<b>4 580 551</b>	<b>23.32</b>
	Other	Licence 170	88 077	2 054 380	23.33
		Permit 45	38 425	1 017 967	26.49
		Permit 46	145 819	5 071 381	34.78
		Permit 68	10 795	280 870	26.02
		<b>Subtotal</b>	<b>283 116</b>	<b>8 424 598</b>	<b>29.76</b>
<b>Subtotal</b>	<b>479 497</b>	<b>13 005 149</b>	<b>27.12</b>		

Footnotes:

1. Source of production data filed by major exporters only.
2. Revenue figures are for illustrative purposes only and are strictly allocatable by energy source.

Additional Notes:

- Revenue for Permit 92 not available.



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## TABLE 5 Source of Production Report <sup>1</sup> by Exporter

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Exporter	Fuel Type	Authorization	DEC98		
			Energy (MW.h)	Revenue (CAN\$) <sup>2</sup>	CAN\$/MW.h <sup>2</sup>
NB Power	Canadian Coal	Permit 18	15	785	52.35
		Permit 47	629	33 274	52.90
		Permit 91	4 464	161 985	36.29
		<b>Subtotal</b>	<b>5 108</b>	<b>196 045</b>	<b>38.38</b>
	Canadian Oil	Permit 16	38	2 190	57.47
		<b>Subtotal</b>	<b>38</b>	<b>2 190</b>	<b>57.47</b>
	Imported Coal	Permit 16	955	53 872	56.42
		Permit 18	67	3 788	56.28
		Permit 47	1 399	74 023	52.90
		Permit 91	43 685	1 588 971	36.37
		<b>Subtotal</b>	<b>46 106</b>	<b>1 720 653</b>	<b>37.32</b>
	Imported Oil	Permit 16	4 961	279 290	56.30
		Permit 18	404	21 206	52.44
		Permit 47	5 732	303 207	52.90
		Permit 91	209 248	7 599 106	36.32
		<b>Subtotal</b>	<b>220 344</b>	<b>8 202 810</b>	<b>37.23</b>
Other	Permit 16	4 047	224 889	55.58	
	Permit 18	105	5 512	52.35	
	Permit 91	69 913	2 542 520	36.37	
	<b>Subtotal</b>	<b>74 065</b>	<b>2 772 921</b>	<b>37.44</b>	
	<b>Subtotal</b>		<b>345 661</b>	<b>12 894 618</b>	<b>37.30</b>

Footnotes:

1. Source of production data filed by major exporters only.
2. Revenue figures are for illustrative purposes only and are strictly allocatable by energy source.

Additional Notes:

- Revenue for Permit 92 not available.



## TABLE 5 Source of Production Report <sup>1</sup> by Exporter

Exporter	Fuel Type	Authorization	DEC98		
			Energy (MW.h)	Revenue (CAN\$) <sup>2</sup>	CAN\$/MW.h <sup>2</sup>
<b>Ont. Hydro/OHIM</b>	Hydraulic	Permit 21	1 520	49 156	32.34
		<b>Subtotal</b>	<b>1 520</b>	<b>49 156</b>	<b>32.34</b>
	Imported Coal	Permit 21	100 041	3 137 188	31.36
		<b>Subtotal</b>	<b>100 041</b>	<b>3 137 188</b>	<b>31.36</b>
	Imported Oil	Permit 21	12 119	490 354	40.46
		<b>Subtotal</b>	<b>12 119</b>	<b>490 354</b>	<b>40.46</b>
	Other	Permit 21	801	26 394	32.95
		<b>Subtotal</b>	<b>801</b>	<b>26 394</b>	<b>32.95</b>
		<b>Subtotal</b>	<b>114 481</b>	<b>3 703 093</b>	<b>32.35</b>
	<b>Powerex</b>	Hydraulic	Permit 92	85 560	0
		Permit 95	650	40 665	62.56
		Permit 118	167 622	7 787 293	46.46
		Permit 119	21 427	605 139	28.24
		<b>Subtotal</b>	<b>275 259</b>	<b>8 433 097</b>	<b>30.64</b>
Other		Permit 116	864	34 628	40.08
		Permit 118	392 613	18 239 804	46.46
		<b>Subtotal</b>	<b>393 477</b>	<b>18 274 431</b>	<b>46.44</b>
		<b>Subtotal</b>	<b>668 736</b>	<b>26 707 529</b>	<b>39.94</b>

Footnotes:

1. Source of production data filed by major exporters only.
2. Revenue figures are for illustrative purposes only and are strictly allocatable by energy source.

Additional Notes:

- Revenue for Permit 92 not available.



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## TABLE 5 Source of Production Report <sup>1</sup> by Exporter

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Exporter	Fuel Type	Authorization	DEC98		
			Energy (MW.h)	Revenue (CAN\$) <sup>2</sup>	CAN\$/MW.h <sup>2</sup>
TransAlta Ener.	Other	Permit 74	2 128	58 384	27.44
		<b>Subtotal</b>	<b>2 128</b>	<b>58 384</b>	<b>27.44</b>
	<b>Subtotal</b>		<b>2 128</b>	<b>58 384</b>	<b>27.44</b>
<b>Total All Exporters</b>			<b>2 463 451</b>	<b>88 758 790</b>	<b>36.03</b>

Footnotes:

1. Source of production data filed by major exporters only.
2. Revenue figures are for illustrative purposes only and are strictly allocatable by energy source.

Additional Notes:

- Revenue for Permit 92 not available.