

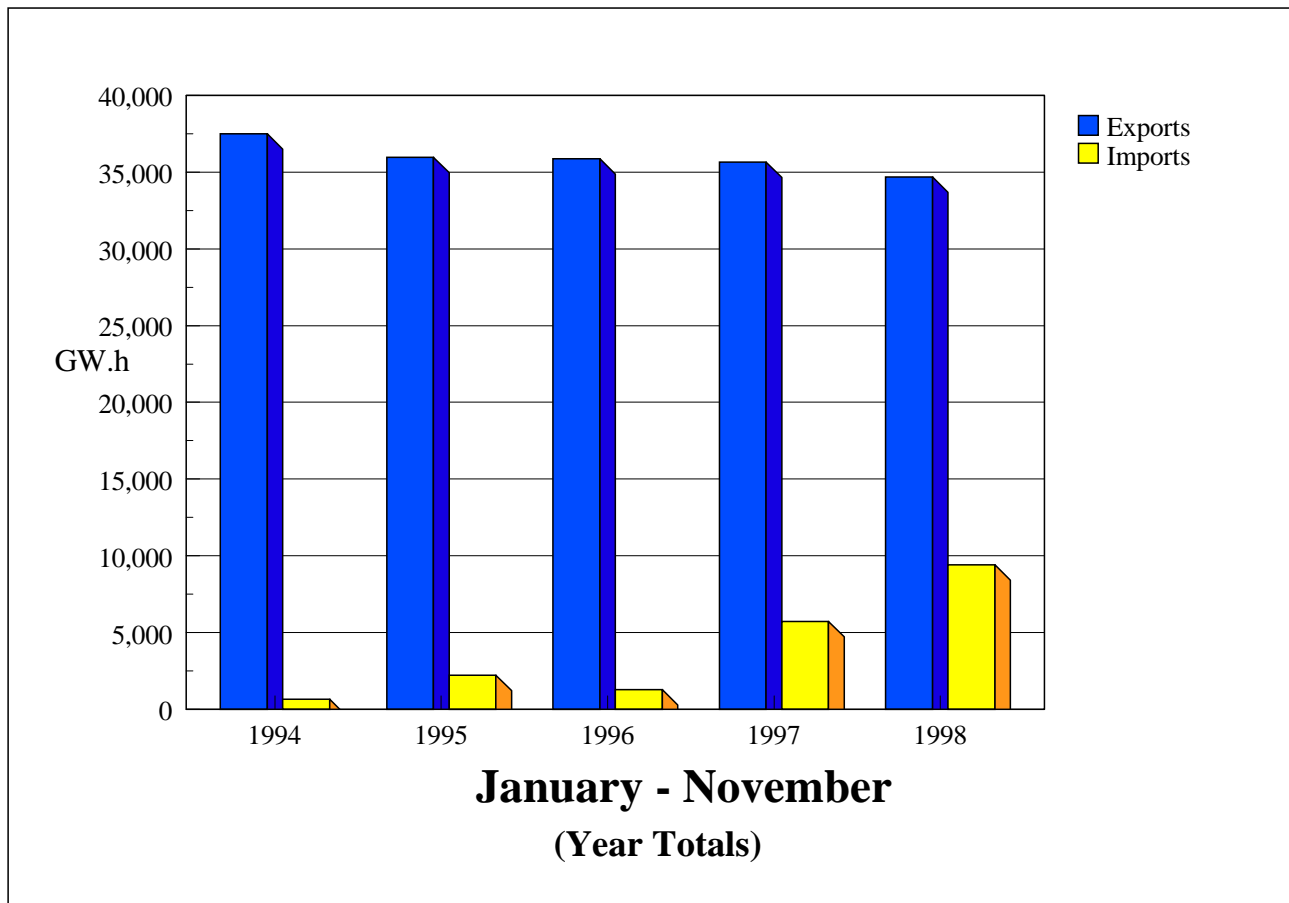


# Electricity Exports and Imports

## Monthly Statistics for: November 1998

Exports: **2262** GW.h

Imports: **1221** GW.h





National Energy Board  
Office national de l'énergie

# TABLE 1

## Exports and Imports of Electricity

### Summary: Canada

#### NOVEMBER 1998

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	Exchange Type	Energy (MW.h)		Revenue (CAN\$) <sup>1</sup>		CAN\$/MW.h <sup>2</sup>	
		NOV98	JAN98 - NOV98	NOV98	JAN98 - NOV98	NOV98	L12M
<b>Exports of Electric Energy</b>	Firm	1 251 287	18 426 340	57 599 809	810 138 478	31.40	31.46
	Interruptible	1 010 360	18 540 590	40 117 689	685 932 767	39.70	34.95
	Non-Revenue/Inadvertant	-96 380	1 678 178	0	0	0.00	0.00
	Service	93 755	919 610	94	644	0.00	0.00
<b>Total Exports</b>		<b>2 259 022</b>	<b>39 564 719</b>	<b>97 717 592</b>	<b>1 496 071 889</b>	<b>35.15</b>	<b>31.03</b>
Total Sales - Firm and Interruptible		2 261 647	36 966 930	97 717 498	1 496 071 246	35.11	33.24
<b>Imports of Electric Energy</b>	Non-Revenue/Inadvertant	- 109 671	1 532 165	0	0	0.00	0.00
	Purchase	1 220 788	10 636 232	40 125 411	278 633 925	30.35	23.63
	Service	244 514	1 616 909	74 076	388 444	0.30	0.25
<b>Total Imports</b>		<b>1 355 631</b>	<b>13 785 306</b>	<b>40 199 487</b>	<b>279 022 370</b>	<b>27.39</b>	<b>18.20</b>
<b>Excess of Exports Over Imports</b>		<b>903 391</b>	<b>25 779 413</b>	<b>57 518 105</b>	<b>1 217 049 520</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:*  
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**Energy Commodities Branch**  
**National Energy Board**  
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## 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>	
			NOV98	JAN98 - NOV98	NOV98	JAN98 - NOV98	NOV98	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	3 584	58 355	121 747	1 245 932	33.97	18.90
<b>Subtotal Firm and Interruptible Exports: Alberta</b>			<b>3 584</b>	<b>59 392</b>	<b>121 747</b>	<b>1 263 784</b>	<b>33.97</b>	<b>18.88</b>
<b>British Columbia</b>								
BC Hydro	Permit 105	F	114	916	2 637	47 855	23.23	55.20
	Treaty	N	24 904	290 741	0	0	0.00	0.00
BC Hydro/Powerx	Permit 43	I	0	5 489 294	0	224 550 228	0.00	38.55
	Permit 44	F	0	179 632	0	4 912 349	0.00	27.87
Cominco	Permit 57	I	32 126	213 676	1 397 880	7 755 827	43.51	34.78
Powerex	Permit 71	F	0	25 650	0	1 083 626	0.00	42.25
	Permit 92	F	82 800	674 600	0	0	0.00	0.00
	Permit 95	F	14 400	74 935	523 391	2 899 391	36.35	38.48
	Permit 116	I	0	200	0	8 869	0.00	44.35
	Permit 118	I	535 428	1 535 800	22 123 647	54 305 939	41.32	35.36

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>	
			NOV98	JAN98 - NOV98	NOV98	JAN98 - NOV98	NOV98	L12M
Powerex	Permit 119	F	19 728	43 568	686 529	1 246 320	34.80	28.61
West Kootenay	Permit 13	F	0	20	0	1 262	0.00	61.90
<b>Subtotal Firm and Interruptible Exports: British Columbia</b>			<b>684 596</b>	<b>8 238 291</b>	<b>24 734 084</b>	<b>296 811 666</b>	<b>36.13</b>	<b>34.63</b>
<b>Manitoba</b>								
Manitoba Hydro	Licence 170	F	258 445	3 033 861	13 186 475	147 617 563	24.59	24.48
	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	67 646	1 806 355	1 815 079	52 527 304	26.75	25.49
	Permit 46	I	162 704	4 875 789	5 427 024	119 608 225	33.48	24.19
		N	- 215 103	- 886 334	0	0	0.00	0.00
	Permit 52	F	0	28 264	0	1 595 606	0.00	26.25
	Permit 61	F	368	3 888	16 388	180 037	44.49	46.04
	Permit 68	F	3 970	100 856	389 747	5 425 480	25.25	23.34
<b>Subtotal Firm and Interruptible Exports: Manitoba</b>			<b>493 133</b>	<b>10 291 700</b>	<b>20 834 713</b>	<b>337 090 031</b>	<b>27.84</b>	<b>24.45</b>
<b>New Brunswick</b>								
Fraser Inc.	Permit 102	F	21 945	282 270	1 572 715	18 830 231	71.67	66.33

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.



## 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>	
			NOV98	JAN98 - NOV98	NOV98	JAN98 - NOV98	NOV98	L12M
Maine & NB	Licence 177	F	5 172	87 885	169 827	2 376 312	16.40	16.40
NB Power	Permit 15	I	367	4 098	10 123	212 099	27.58	46.58
		N	- 625	- 467	0	0	0.00	0.00
	Permit 16	I	14 112	70 121	773 790	3 984 017	54.83	54.22
		N	-2 739	-58 739	0	0	0.00	0.00
	Permit 17	S	4 070	48 399	0	0	0.00	0.00
	Permit 18	I	1 669	28 297	89 416	1 383 780	53.57	49.40
		N	-36	21	0	0	0.00	0.00
	Permit 28	F	4	29	474	3 552	120.38	121.81
	Permit 47	F	6 993	75 128	561 146	5 746 782	52.90	51.66
	Permit 90	F	13	9 685	436	328 655	33.52	33.93
Permit 91	I	191 336	3 441 347	7 628 904	137 409 775	39.87	39.48	
<b>Subtotal Firm and Interruptible Exports: New Brunswick</b>			<b>241 611</b>	<b>3 998 860</b>	<b>10 806 831</b>	<b>170 275 203</b>	<b>43.58</b>	<b>41.74</b>
<b>Ontario</b>								
Cdn. Niagara	Permit 84	F	24 464	256 572	786 437	7 461 652	32.15	28.68
	Permit 85	S	6 745	92 568	0	0	0.00	0.00
Cornwall Elec.	Permit 82	I	373	11 542	8 628	251 695	23.13	21.71
	Permit 83	S	25 334	229 986	0	0	0.00	0.00
D&W Subway	Permit 26	F	137	1 594	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>		
			NOV98	JAN98 - NOV98	NOV98	JAN98 - NOV98	NOV98	L12M	
Ont. Hydro/OHIM	Permit 21	I	63 950	2 187 336	2 381 035	109 083 891	37.09	40.32	
		S	57 606	130 889	94	644	0.00	0.00	
Ontario Hydro	Permit 22	N	94 430	2 324 413	0	0	0.00	0.00	
	Permit 24	F	16	167	32	333	2.00	2.00	
	Permit 25	F	0	38	0	641	0.00	31.16	
<b>Subtotal Firm and Interruptible Exports: Ontario</b>			<b>88 941</b>	<b>2 457 250</b>	<b>3 176 132</b>	<b>116 798 212</b>	<b>35.61</b>	<b>38.91</b>	
<b>Quebec</b>									
Hydro-Quebec	Licence 176	F	342 417	5 270 652	11 601 839	179 497 926	33.88	34.02	
	Licence 178	F	0	1 811 840	0	77 541 735	0.00	35.96	
	Licence 180	F	91 464	859 957	9 284 686	92 596 471	39.53	37.85	
	Licence 181	F	27 114	306 382	2 734 146	42 913 687	39.53	36.56	
	Licence 182	F	13 497	150 266	1 349 589	14 377 378	39.53	38.20	
	Licence 183	F	25 040	214 293	2 509 466	24 288 579	39.53	38.28	
	Licence 184	F	12 834	111 818	1 321 427	12 831 069	39.53	38.20	
	Permit 20	F	0	1 045	0	73 914	0.00	71.10	
	Permit 64	I	N	7 695	614 698	248 094	24 817 124	29.88	39.22
			S	3 464	37 557	0	0	0.00	0.00
			S	0	347 568	0	0	0.00	0.00
	Permit 65	F	229 043	2 382 777	8 962 308	97 163 051	37.24	38.58	
		S	0	3 950	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>	
			NOV98	JAN98 - NOV98	NOV98	JAN98 - NOV98	NOV98	L12M
Maclaren Ind.	Permit 111	I	0	3 205	0	156 862	0.00	48.94
<b>Subtotal Firm and Interruptible Exports: Quebec</b>			<b>749 104</b>	<b>11 726 933</b>	<b>38 011 555</b>	<b>566 257 797</b>	<b>36.15</b>	<b>36.09</b>
<b>Saskatchewan</b>								
Sask. Power	Licence 118	S	0	66 250	0	0	0.00	0.00
	Licence 119	I	600	64 150	29 148	2 386 584	48.58	37.17
		N	- 675	-29 014	0	0	0.00	0.00
	Permit 89	F	78	130 355	3 289	5 187 969	42.16	39.57
<b>Subtotal Firm and Interruptible Exports: Saskatchewan</b>			<b>678</b>	<b>194 505</b>	<b>32 437</b>	<b>7 574 553</b>	<b>47.84</b>	<b>38.79</b>
<b>Total Firm and Interruptible Exports:</b>			<b>2 261 647</b>	<b>36 966 930</b>	<b>97 717 498</b>	<b>1 496 071 246</b>	<b>35.11</b>	<b>33.24</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>	
			NOV98	JAN98 - NOV98	NOV98	JAN98 - NOV98	NOV98	L12M
<b>Alberta</b>								
Enron Canada	-	P	0	23 021	0	563 161	0.00	24.46
TransAlta		P	0	2 429	0	97 027	0.00	39.92
TransAlta Ener.		P	2 340	157 249	99 491	3 919 479	42.52	24.93
TransCanada		P	0	2 202	0	55 595	0.00	26.58
<b>Subtotal Purchased Imports: Alberta</b>			<b>2 340</b>	<b>184 901</b>	<b>99 491</b>	<b>4 635 262</b>	<b>42.52</b>	<b>25.11</b>
<b>British Columbia</b>								
BC Hydro		P	9	253	878	17 597	97.56	69.87
BC Hydro/Powerx		P	0	3 420 543	0	68 064 514	0.00	20.00
Powerex		P	300 094	457 633	8 554 874	13 476 834	28.51	29.45
West Kootenay		P	170	84 112	248 405	2 818 415	54.36	25.09
<b>Subtotal Purchased Imports: British Columbia</b>			<b>300 273</b>	<b>3 962 541</b>	<b>8 804 157</b>	<b>84 377 360</b>	<b>28.52</b>	<b>21.24</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>	
			NOV98	JAN98 - NOV98	NOV98	JAN98 - NOV98	NOV98	L12M
<b>Manitoba</b>								
Manitoba Hydro	-	N	- 212 697	- 878 241	0	0	0.00	0.00
		P	234 813	880 099	5 369 406	21 473 499	22.84	23.73
<b>Subtotal Purchased Imports: Manitoba</b>			<b>234 813</b>	<b>880 099</b>	<b>5 369 406</b>	<b>21 473 499</b>	<b>22.84</b>	<b>23.73</b>
<b>New Brunswick</b>								
Maine & NB		P	379	5 201	18 662	226 593	49.24	42.93
NB Power		N	3 270	61 154	0	0	0.00	0.00
		P	0	3 682	0	49 785	0.00	13.52
		S	4 070	48 399	0	0	0.00	0.00
<b>Subtotal Purchased Imports: New Brunswick</b>			<b>379</b>	<b>8 883</b>	<b>18 662</b>	<b>276 378</b>	<b>49.24</b>	<b>32.02</b>
<b>Ontario</b>								
Cdn. Niagara		N	208	7 244	0	0	0.00	0.00
Cornwall Elec.		P	660	8 009	36 137	913 534	54.75	124.26
		S	25 334	229 986	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>	
			NOV98	JAN98 - NOV98	NOV98	JAN98 - NOV98	NOV98	L12M
D&W Subway	-	P	133	1 457	0	0	0.00	0.00
Ont. Hydro/OHIM		P	1 555	164 097	49 456	6 795 313	31.80	41.41
Ontario Hydro		N	92 649	2 318 701	0	0	0.00	0.00
		P	506 769	4 212 985	16 459 451	87 316 807	32.48	21.95
		S	65 417	398 996	74 076	388 444	1.13	0.97
<b>Subtotal Purchased Imports: Ontario</b>			<b>509 117</b>	<b>4 386 548</b>	<b>16 545 044</b>	<b>95 025 654</b>	<b>32.50</b>	<b>22.80</b>
<b>Quebec</b>								
Hydro-Quebec		N	7 468	74 175	0	0	0.00	0.00
		P	108 886	847 119	6 857 983	61 651 817	37.03	34.53
		S	149 693	899 528	0	0	0.00	0.00
<b>Subtotal Purchased Imports: Quebec</b>			<b>108 886</b>	<b>847 119</b>	<b>6 857 983</b>	<b>61 651 817</b>	<b>37.03</b>	<b>34.53</b>
<b>Saskatchewan</b>								
Sask. Power		N	- 569	-50 868	0	0	0.00	0.00
		P	64 980	366 141	2 430 669	11 193 955	37.41	30.43
		S	0	40 000	0	0	0.00	0.00
<b>Subtotal Purchased Imports: Saskatchewan</b>			<b>64 980</b>	<b>366 141</b>	<b>2 430 669</b>	<b>11 193 955</b>	<b>37.41</b>	<b>30.43</b>
<b>Total Purchased Imports:</b>			<b>1 220 788</b>	<b>10 636 232</b>	<b>40 125 411</b>	<b>278 633 925</b>	<b>30.35</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>	
		NOV98	JAN98 - NOV98	NOV98	JAN98 - NOV98	NOV98	L12M
<b>Alaska</b>	British Columbia	114	916	2 637	47 855	23.23	55.20
<b>Subtotal Exports: Alaska</b>		<b>114</b>	<b>916</b>	<b>2 637</b>	<b>47 855</b>	<b>23.23</b>	<b>55.20</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	82 020	1 263 567	3 985 870	74 373 480	48.60	55.15
<b>Subtotal Exports: California</b>		<b>82 020</b>	<b>1 263 567</b>	<b>3 985 870</b>	<b>74 373 480</b>	<b>48.60</b>	<b>55.15</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	4 694	137 082	210 600	5 881 371	44.87	41.18
<b>Subtotal Exports: Idaho</b>		<b>4 694</b>	<b>137 082</b>	<b>210 600</b>	<b>5 881 371</b>	<b>44.87</b>	<b>41.18</b>
<b>Iowa</b>	Manitoba	153	106 508	6 384	2 037 345	41.73	18.44
<b>Subtotal Exports: Iowa</b>		<b>153</b>	<b>106 508</b>	<b>6 384</b>	<b>2 037 345</b>	<b>41.73</b>	<b>18.44</b>
<b>Kansas</b>	Manitoba	0	3 525	0	104 524	0.00	29.65
<b>Subtotal Exports: Kansas</b>		<b>0</b>	<b>3 525</b>	<b>0</b>	<b>104 524</b>	<b>0.00</b>	<b>29.65</b>
<b>Maine</b>	New Brunswick	241 611	3 998 860	10 806 831	170 275 203	43.58	41.74
<b>Subtotal Exports: Maine</b>		<b>241 611</b>	<b>3 998 860</b>	<b>10 806 831</b>	<b>170 275 203</b>	<b>43.58</b>	<b>41.74</b>
<b>Michigan</b>	Ontario	2 787	1 994 554	110 327	97 327 144	39.58	39.81
<b>Subtotal Exports: Michigan</b>		<b>2 787</b>	<b>1 994 554</b>	<b>110 327</b>	<b>97 327 144</b>	<b>39.58</b>	<b>39.81</b>
<b>Minnesota</b>	Manitoba	412 591	8 459 209	18 318 401	285 883 386	27.19	24.55

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>	
		NOV98	JAN98 - NOV98	NOV98	JAN98 - NOV98	NOV98	L12M
<b>Minnesota</b>	Ontario	2 355	50 502	101 867	4 571 848	43.26	67.06
	Saskatchewan	0	7 094	0	266 233	0.00	37.53
<b>Subtotal Exports: Minnesota</b>		<b>414 946</b>	<b>8 516 805</b>	<b>18 420 267</b>	<b>290 721 466</b>	<b>27.28</b>	<b>24.79</b>
<b>Missouri</b>	Manitoba	95	599	4 343	22 627	45.71	27.90
<b>Subtotal Exports: Missouri</b>		<b>95</b>	<b>599</b>	<b>4 343</b>	<b>22 627</b>	<b>45.71</b>	<b>27.90</b>
<b>Montana</b>	British Columbia	205	25 197	9 904	1 292 300	48.31	47.70
	Manitoba	125	534	5 904	24 053	47.23	45.04
<b>Subtotal Exports: Montana</b>		<b>330</b>	<b>25 731</b>	<b>15 808</b>	<b>1 316 353</b>	<b>47.90</b>	<b>47.65</b>
<b>Nebraska</b>	Manitoba	2 126	29 277	82 040	807 218	38.59	27.60
<b>Subtotal Exports: Nebraska</b>		<b>2 126</b>	<b>29 277</b>	<b>82 040</b>	<b>807 218</b>	<b>38.59</b>	<b>27.60</b>
<b>New England</b>	Ontario	2 380	41 364	67 372	996 197	28.31	24.08
	Quebec	555 063	7 789 281	19 575 175	274 633 476	35.27	35.40
<b>Subtotal Exports: New England</b>		<b>557 443</b>	<b>7 830 645</b>	<b>19 642 547</b>	<b>275 629 673</b>	<b>35.24</b>	<b>35.35</b>
<b>New York</b>	Ontario	81 418	361 623	2 896 566	13 282 553	35.46	31.39
	Quebec	3 691	2 032 864	183 347	89 027 268	49.13	37.70
<b>Subtotal Exports: New York</b>		<b>85 109</b>	<b>2 394 487</b>	<b>3 079 913</b>	<b>102 309 821</b>	<b>36.06</b>	<b>36.71</b>
<b>North Dakota</b>	Manitoba	5 363	138 117	208 312	6 486 718	38.84	33.00
	Saskatchewan	600	84 361	29 148	3 870 152	48.58	45.59
<b>Subtotal Exports: North Dakota</b>		<b>5 963</b>	<b>222 478</b>	<b>237 460</b>	<b>10 356 870</b>	<b>39.82</b>	<b>37.76</b>
<b>Oregon</b>	Alberta	170	882	5 364	22 557	31.55	22.78
	British Columbia	68 610	631 249	2 434 371	19 871 016	35.48	30.96
<b>Subtotal Exports: Oregon</b>		<b>68 780</b>	<b>632 131</b>	<b>2 439 734</b>	<b>19 893 573</b>	<b>35.47</b>	<b>30.94</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>	
		NOV98	JAN98 - NOV98	NOV98	JAN98 - NOV98	NOV98	L12M
<b>Pennsylvania</b>	Ontario	0	9 206	0	620 471	0.00	67.25
<b>Subtotal Exports: Pennsylvania</b>		<b>0</b>	<b>9 206</b>	<b>0</b>	<b>620 471</b>	<b>0.00</b>	<b>67.25</b>
<b>South Dakota</b>	Manitoba	0	22 369	0	478 934	0.00	21.37
<b>Subtotal Exports: South Dakota</b>		<b>0</b>	<b>22 369</b>	<b>0</b>	<b>478 934</b>	<b>0.00</b>	<b>21.37</b>
<b>Texas</b>	Manitoba	8 800	727 050	336 738	22 051 278	38.27	23.72
<b>Subtotal Exports: Texas</b>		<b>8 800</b>	<b>727 050</b>	<b>336 738</b>	<b>22 051 278</b>	<b>38.27</b>	<b>23.72</b>
<b>Utah</b>	British Columbia	0	1 400	0	56 918	0.00	40.66
<b>Subtotal Exports: Utah</b>		<b>0</b>	<b>1 400</b>	<b>0</b>	<b>56 918</b>	<b>0.00</b>	<b>40.66</b>
<b>Vermont</b>	Quebec	190 350	1 904 788	18 253 032	202 597 053	38.48	37.32
<b>Subtotal Exports: Vermont</b>		<b>190 350</b>	<b>1 904 788</b>	<b>18 253 032</b>	<b>202 597 053</b>	<b>38.48</b>	<b>37.32</b>
<b>Washington</b>	Alberta	3 414	58 510	116 383	1 241 227	34.09	18.81
	British Columbia	528 953	6 173 680	18 090 703	195 115 532	34.20	30.70
	Saskatchewan	78	103 050	3 289	3 438 169	42.16	33.37
<b>Subtotal Exports: Washington</b>		<b>532 445</b>	<b>6 335 240</b>	<b>18 210 375</b>	<b>199 794 927</b>	<b>34.20</b>	<b>30.58</b>
<b>Wisconsin</b>	Manitoba	63 880	804 512	1 872 591	19 193 948	29.22	23.51
<b>Subtotal Exports: Wisconsin</b>		<b>63 880</b>	<b>804 512</b>	<b>1 872 591</b>	<b>19 193 948</b>	<b>29.22</b>	<b>23.51</b>
<b>Total Exports</b>		<b>2 261 647</b>	<b>36 966 930</b>	<b>97 717 498</b>	<b>1 496 071 246</b>	<b>35.11</b>	<b>33.24</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>	
		NOV98	JAN98 - NOV98	NOV98	JAN98 - NOV98	NOV98	L12M
<b>Idaho</b>	Alberta	20	70	837	5 534	41.84	79.06
<b>Subtotal Imports: Idaho</b>		<b>20</b>	<b>70</b>	<b>837</b>	<b>5 534</b>	<b>41.84</b>	<b>79.06</b>
<b>Iowa</b>	Manitoba	1 500	14 964	36 569	549 862	24.38	36.75
<b>Subtotal Imports: Iowa</b>		<b>1 500</b>	<b>14 964</b>	<b>36 569</b>	<b>549 862</b>	<b>24.38</b>	<b>36.75</b>
<b>Maine</b>	New Brunswick	379	8 883	18 662	276 378	49.24	32.02
<b>Subtotal Imports: Maine</b>		<b>379</b>	<b>8 883</b>	<b>18 662</b>	<b>276 378</b>	<b>49.24</b>	<b>32.02</b>
<b>Michigan</b>	Ontario	435 499	3 404 373	13 166 354	59 698 800	30.23	19.44
<b>Subtotal Imports: Michigan</b>		<b>435 499</b>	<b>3 404 373</b>	<b>13 166 354</b>	<b>59 698 800</b>	<b>30.23</b>	<b>19.44</b>
<b>Minnesota</b>	Manitoba	192 260	749 821	4 472 801	17 905 867	23.26	23.56
	Ontario	803	66 277	18 564	1 815 922	23.12	26.67
	Saskatchewan	0	900	0	31 337	0.00	34.82
<b>Subtotal Imports: Minnesota</b>		<b>193 063</b>	<b>816 998</b>	<b>4 491 365</b>	<b>19 753 126</b>	<b>23.26</b>	<b>23.84</b>
<b>Missouri</b>	Manitoba	0	14	0	1 768	0.00	126.29
<b>Subtotal Imports: Missouri</b>		<b>0</b>	<b>14</b>	<b>0</b>	<b>1 768</b>	<b>0.00</b>	<b>126.29</b>
<b>Montana</b>	Alberta	0	3 341	0	137 828	0.00	41.14
	British Columbia	9	253	878	17 597	97.56	69.87
<b>Subtotal Imports: Montana</b>		<b>9</b>	<b>3 594</b>	<b>878</b>	<b>155 425</b>	<b>97.56</b>	<b>43.09</b>
<b>Nebraska</b>	Manitoba	39 330	53 865	824 906	1 314 728	20.82	22.77
<b>Subtotal Imports: Nebraska</b>		<b>39 330</b>	<b>53 865</b>	<b>824 906</b>	<b>1 314 728</b>	<b>20.82</b>	<b>22.77</b>
<b>New England</b>	Quebec	0	11 331	0	1 351 091	0.00	119.24
<b>Subtotal Imports: New England</b>		<b>0</b>	<b>11 331</b>	<b>0</b>	<b>1 351 091</b>	<b>0.00</b>	<b>119.24</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>	
		NOV98	JAN98 - NOV98	NOV98	JAN98 - NOV98	NOV98	L12M
<b>New York</b>	Ontario	71 260	742 426	3 310 671	26 286 441	46.46	34.99
	Quebec	89 357	794 068	3 228 044	26 256 772	36.13	33.23
<b>Subtotal Imports: New York</b>		<b>160 617</b>	<b>1 536 494</b>	<b>6 538 715</b>	<b>52 543 212</b>	<b>40.71</b>	<b>34.02</b>
<b>North Dakota</b>	Manitoba	1 523	5 288	30 102	101 619	19.77	19.22
	Saskatchewan	64 980	341 557	2 430 669	10 213 129	37.41	29.77
<b>Subtotal Imports: North Dakota</b>		<b>66 503</b>	<b>346 845</b>	<b>2 460 771</b>	<b>10 314 748</b>	<b>37.00</b>	<b>29.61</b>
<b>Oregon</b>	Alberta	1 025	111 730	43 044	2 587 539	41.99	23.16
	British Columbia	0	110	0	3 124	0.00	28.40
<b>Subtotal Imports: Oregon</b>		<b>1 025</b>	<b>111 840</b>	<b>43 044</b>	<b>2 590 663</b>	<b>41.99</b>	<b>23.16</b>
<b>Pennsylvania</b>	Ontario	1 555	173 472	49 456	7 224 491	31.80	41.65
<b>Subtotal Imports: Pennsylvania</b>		<b>1 555</b>	<b>173 472</b>	<b>49 456</b>	<b>7 224 491</b>	<b>31.80</b>	<b>41.65</b>
<b>South Dakota</b>	Alberta	0	3 225	0	124 188	0.00	38.51
	Manitoba	0	43 769	0	1 030 271	0.00	23.54
<b>Subtotal Imports: South Dakota</b>		<b>0</b>	<b>46 994</b>	<b>0</b>	<b>1 154 459</b>	<b>0.00</b>	<b>24.57</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	19 529	41 720	3 629 939	34 043 954	41.19	40.32
<b>Subtotal Imports: Vermont</b>		<b>19 529</b>	<b>41 720</b>	<b>3 629 939</b>	<b>34 043 954</b>	<b>41.19</b>	<b>40.32</b>
<b>Washington</b>	Alberta	1 295	66 535	55 610	1 780 173	42.94	26.80
	British Columbia	300 264	3 962 178	8 803 279	84 356 639	28.52	21.24

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>	
		NOV98	JAN98 - NOV98	NOV98	JAN98 - NOV98	NOV98	L12M
<b>Washington</b>	Saskatchewan	0	23 684	0	949 489	0.00	39.77
<b>Subtotal Imports: Washington</b>		<b>301 559</b>	<b>4 052 397</b>	<b>8 858 889</b>	<b>87 086 301</b>	<b>28.58</b>	<b>21.43</b>
<b>Wisconsin</b>	Manitoba	200	12 378	5 028	312 357	25.14	25.23
<b>Subtotal Imports: Wisconsin</b>		<b>200</b>	<b>12 378</b>	<b>5 028</b>	<b>312 357</b>	<b>25.14</b>	<b>25.23</b>
<b>Total Imports</b>		<b>1 220 788</b>	<b>10 636 232</b>	<b>40 125 411</b>	<b>278 633 925</b>	<b>30.35</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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Fuel Type	NOV98		
	Energy (MW.h)	Revenue (CAN\$) <sup>2</sup>	CAN\$/MW.h <sup>2</sup>
Canadian Coal	1 463	62 628	42.80
Canadian Oil	71	3 873	54.94
Hydraulic	1 360 872	44 482 174	32.69
Imported Coal	65 450	2 412 421	36.86
Imported Oil	115 038	4 890 700	42.51
Nuclear	0	11	0.00
Other	661 897	24 916 998	37.64
<b>Total</b>	<b>2 204 791</b>	<b>76 768 806</b>	<b>34.82</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	NOV98		
			Energy (MW.h)	Revenue (CAN\$) <sup>2</sup>	CAN\$/MW.h <sup>2</sup>
Cominco	Hydraulic	Permit 57	32 126	1 397 880	43.51
		<b>Subtotal</b>	<b>32 126</b>	<b>1 397 880</b>	<b>43.51</b>
	<b>Subtotal</b>		<b>32 126</b>	<b>1 397 880</b>	<b>43.51</b>
Hydro-Quebec	Hydraulic	Licence 176	342 417	11 601 839	33.88
		Licence 180	91 464	3 615 736	39.53
		Licence 181	27 114	1 071 865	39.53
		Licence 182	13 497	533 561	39.53
		Licence 183	25 040	989 876	39.53
		Licence 184	12 834	507 351	39.53
		Permit 64	7 695	229 929	29.88
		Permit 65	229 043	8 530 348	37.24
		<b>Subtotal</b>	<b>749 104</b>	<b>27 080 504</b>	<b>36.15</b>
		<b>Subtotal</b>		<b>749 104</b>	<b>27 080 504</b>
Manitoba Hydro	Hydraulic	Licence 170	257 952	6 343 689	24.59
		<b>Subtotal</b>	<b>257 952</b>	<b>6 343 689</b>	<b>24.59</b>
	Other	Licence 170	493	12 124	24.59
		Permit 45	67 646	1 809 481	26.75
		Permit 46	162 704	5 446 942	33.48
		Permit 68	3 970	100 244	25.25
		<b>Subtotal</b>	<b>234 813</b>	<b>7 368 791</b>	<b>31.38</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	NOV98		
			Energy (MW.h)	Revenue (CAN\$) <sup>2</sup>	CAN\$/MW.h <sup>2</sup>
	<b>Subtotal</b>		<b>492 765</b>	<b>13 712 480</b>	<b>27.83</b>
<b>NB Power</b>	Canadian Coal	Permit 47	229	12 135	52.90
		Permit 90	4	124	33.52
		Permit 91	1 230	50 369	40.94
		<b>Subtotal</b>	<b>1 463</b>	<b>62 628</b>	<b>42.80</b>
	Canadian Oil	Permit 16	71	3 873	54.94
		<b>Subtotal</b>	<b>71</b>	<b>3 873</b>	<b>54.94</b>
	Imported Coal	Permit 16	850	46 688	54.94
		Permit 18	18	968	52.60
		Permit 47	740	39 157	52.90
		Permit 90	7	218	33.52
		Permit 91	10 543	429 957	40.78
		<b>Subtotal</b>	<b>12 158</b>	<b>516 987</b>	<b>42.52</b>
	Imported Oil	Permit 15	367	10 123	27.58
		Permit 16	10 383	568 373	54.74
		Permit 18	1 196	64 109	53.59
		Permit 47	3 125	165 307	52.90
		Permit 90	3	94	33.52
		Permit 91	91 734	3 696 193	40.29
		<b>Subtotal</b>	<b>106 808</b>	<b>4 504 199</b>	<b>42.17</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	NOV98		
			Energy (MW.h)	Revenue (CAN\$) <sup>2</sup>	CAN\$/MW.h <sup>2</sup>
<b>NB Power</b>	Other	Permit 16	2 809	154 857	55.14
		Permit 18	454	24 339	53.59
		Permit 47	2 899	153 331	52.90
		Permit 91	87 829	3 452 385	39.31
		<b>Subtotal</b>	<b>93 990</b>	<b>3 784 912</b>	<b>40.27</b>
	<b>Subtotal</b>		<b>214 490</b>	<b>8 872 599</b>	<b>41.37</b>
<b>Ont. Hydro/OHIM</b>	Hydraulic	Permit 21	2 428	89 830	37.00
		<b>Subtotal</b>	<b>2 428</b>	<b>89 830</b>	<b>37.00</b>
	Imported Coal	Permit 21	53 292	1 895 434	35.57
		<b>Subtotal</b>	<b>53 292</b>	<b>1 895 434</b>	<b>35.57</b>
	Imported Oil	Permit 21	8 230	386 501	46.96
		<b>Subtotal</b>	<b>8 230</b>	<b>386 501</b>	<b>46.96</b>
	Nuclear	Permit 21	0	11	0.00
		<b>Subtotal</b>	<b>0</b>	<b>11</b>	<b>0.00</b>
	<b>Subtotal</b>		<b>63 950</b>	<b>2 371 776</b>	<b>37.09</b>
	<b>Powerex</b>	Hydraulic	Permit 92	82 800	0
Permit 95			14 400	523 391	36.35
Permit 118			202 334	8 360 351	41.32
Permit 119			19 728	686 529	34.80
<b>Subtotal</b>			<b>319 262</b>	<b>9 570 271</b>	<b>29.98</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	NOV98		
			Energy (MW.h)	Revenue (CAN\$) <sup>2</sup>	CAN\$/MW.h <sup>2</sup>
Powerex	Other	Permit 118	333 094	13 763 296	41.32
		<b>Subtotal</b>	<b>333 094</b>	<b>13 763 296</b>	<b>41.32</b>
	<b>Subtotal</b>		<b>652 356</b>	<b>23 333 567</b>	<b>35.77</b>
<b>Total All Exporters</b>			<b>2 204 791</b>	<b>76 768 806</b>	<b>34.82</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.