

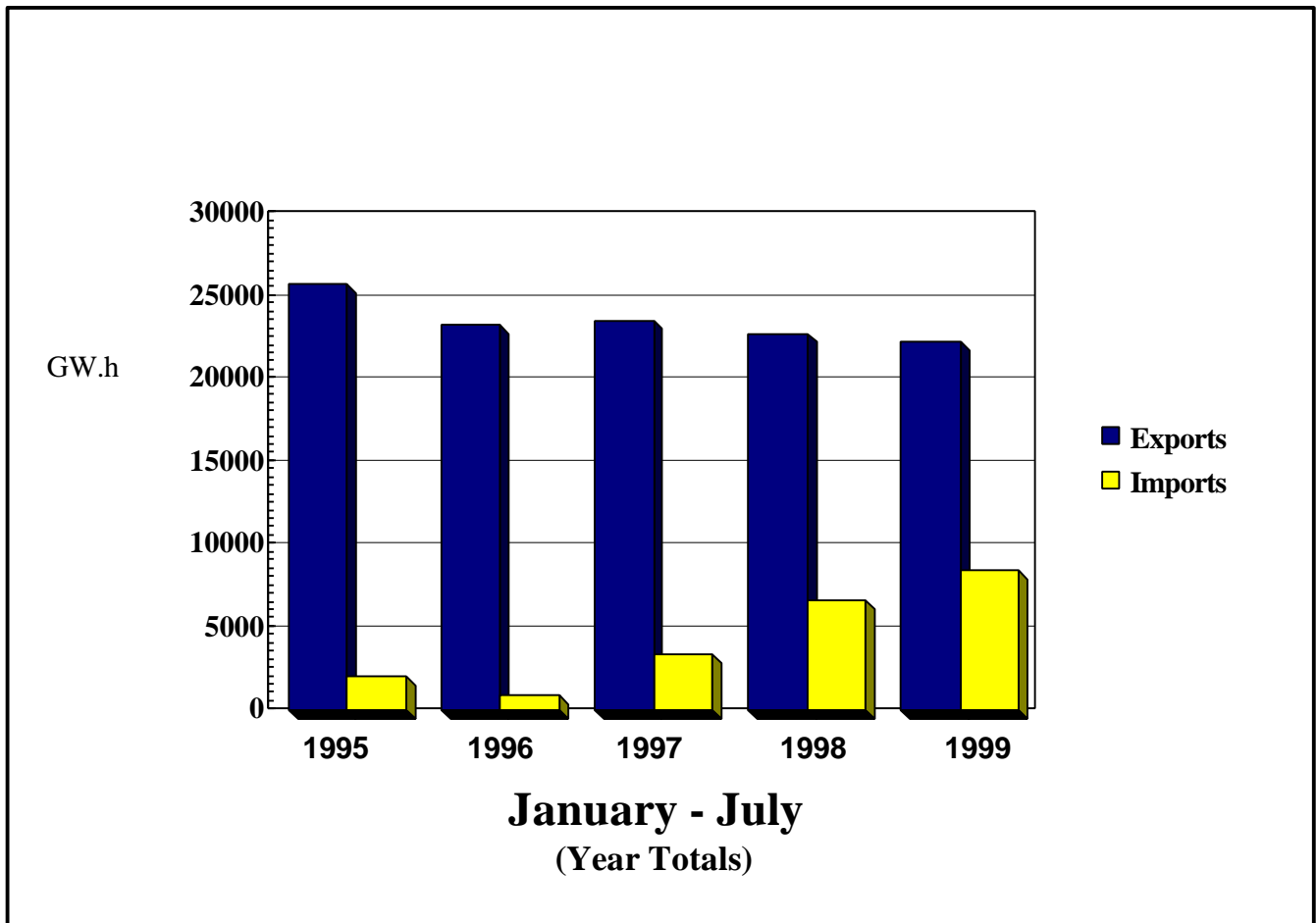


# Electricity Exports and Imports

## Monthly Statistics for: **July 1999**

Exports: **4525** GW.h

Imports: **789** GW.h





National Energy Board  
Office national de l'énergie

# TABLE 1

## Exports and Imports of Electricity

### Summary: Canada

#### JULY 1999

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	Exchange Type	Energy (MW.h)		Revenue (CAN\$) <sup>1</sup>		CAN\$/MW.h <sup>2</sup>	
		JUL99	JAN99 - JAN99	JUL99	JAN99 - JAN99	JUL99	L12M
<b>Exports of Electric Energy</b>	Firm	1 983 476	1 372 630	90 011 267	61 509 017	33.52	31.65
	Interruptible	2 541 512	798 015	170 281 393	30 381 975	66.76	41.79
	Non-Revenue/Inadvertant	203 551	-24 536	0	0	0.00	0.00
	Service	24 722	16 338	171	10 845	0.01	0.04
<b>Total Exports</b>		<b>4 753 261</b>	<b>2 162 446</b>	<b>260 292 831</b>	<b>91 901 837</b>	<b>49.68</b>	<b>35.63</b>
Total Sales - Firm and Interruptible		4 524 988	2 170 645	260 292 660	91 890 992	52.19	36.19
<b>Imports of Electric Energy</b>	Non-Revenue/Inadvertant	195 953	-77 593	643 566	0	3.28	-47.22
	Purchase	788 971	1 417 049	29 403 221	43 442 641	35.22	28.11
	Service	13 263	210 979	2 045	5 272	0.15	0.15
<b>Total Imports</b>		<b>998 187</b>	<b>1 550 435</b>	<b>30 048 831</b>	<b>43 447 913</b>	<b>28.48</b>	<b>23.67</b>
<b>Excess of Exports Over Imports</b>		<b>3 755 075</b>	<b>612 012</b>	<b>230 244 000</b>	<b>48 453 924</b>		
<b>Number of Export Licences:</b>		<b>0</b>					
<b>Number of Export Permits/Orders:</b>		<b>0</b>					
		<b>0</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>		
			JUL99	JAN99 - JUL99	JUL99	JAN99 - JUL99	JUL99	L12M	
<b>Alberta</b>									
TransAlta Ener.	Permit 74	F	1 525	9 557	49 451	331 246	32.43	34.34	
TransCanada	Permit 78	I	1 425	1 425	31 578	31 578	22.16	22.16	
<b>Subtotal Firm and Interruptible Exports: Alberta</b>			<b>2 950</b>	<b>10 982</b>	<b>81 029</b>	<b>362 824</b>	<b>27.47</b>	<b>33.46</b>	
<b>British Columbia</b>									
BC Hydro	Permit 105	F	77	632	2 023	39 833	26.26	67.83	
	Treaty	N	15 549	160 665	0	0	0.00	0.00	
Cominco	Permit 57	I	0	16 950	0	538 967	0.00	44.95	
	Permit 131	I	0	10 850	0	414 427	0.00	38.20	
	Permit 132	F	0	1 200	0	26 929	0.00	22.44	
Powerex	Permit 92	F	44 160	334 361	0	0	0.00	0.00	
	Permit 95	F	6 525	27 765	210 619	853 419	32.28	34.87	
	Permit 118	I	995 045	4 057 613	42 594 276	163 214 446	42.81	40.22	
	Permit 119	F	27 974	143 743	584 715	3 215 392	20.90	24.27	
West Kootenay	Permit 13	F	0	22	0	1 489	0.00	67.45	
	Permit 66	I	1 800	3 515	47 731	85 561	26.52	24.34	
<b>Subtotal Firm and Interruptible Exports: British Columbia</b>			<b>1 075 581</b>	<b>4 596 651</b>	<b>43 439 364</b>	<b>168 390 462</b>	<b>40.39</b>	<b>33.77</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>	
			JUL99	JAN99 - JUL99	JUL99	JAN99 - JUL99	JUL99	L12M
<b>Manitoba</b>								
Manitoba Hydro	Licence 170	F	298 350	1 971 601	14 353 572	109 631 545	21.04	24.21
	Permit 33	F	58 930	87 155	1 217 948	1 790 468	20.70	20.97
	Permit 34	F	38 310	65 434	926 153	1 529 943	23.59	22.72
	Permit 35	F	24 800	54 000	648 878	1 396 559	26.16	26.44
	Permit 45	F	180 210	535 502	12 197 255	27 400 649	47.74	33.68
	Permit 46	I	255 796	1 701 070	10 814 059	59 075 032	41.90	32.29
		N	-29 063	- 868 759	0	0	0.00	0.00
	Permit 52	F	6 890	19 045	362 906	1 033 463	25.13	25.67
	Permit 61	F	333	2 957	16 565	133 993	49.75	46.12
	Permit 68	F	12 580	84 243	595 776	4 189 494	24.61	25.86
<b>Subtotal Firm and Interruptible Exports: Manitoba</b>			<b>876 199</b>	<b>4 521 007</b>	<b>41 133 111</b>	<b>206 181 144</b>	<b>32.95</b>	<b>28.52</b>
<b>New Brunswick</b>								
Fraser Inc.	Permit 102	F	23 505	178 290	1 641 199	12 248 887	69.82	67.80
Maine & NB	Licence 177	F	0	62 807	0	1 540 065	0.00	17.49
NB Power	Permit 15	N	- 163	1 857	0	0	0.00	0.00
	Permit 16	I	20 481	106 631	1 158 471	6 057 663	56.56	56.35
		N	16	-16 142	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>	
			JUL99	JAN99 - JUL99	JUL99	JAN99 - JUL99	JUL99	L12M
NB Power	Permit 17	S	9 809	36 129	0	0	0.00	0.00
	Permit 18	I	5 376	12 055	267 493	610 144	49.76	50.34
		N	0	- 119	0	0	0.00	0.00
	Permit 28	F	2	28	299	2 980	134.52	110.68
	Permit 47	F	7 369	48 939	568 116	3 811 105	52.90	52.66
	Permit 91	I	402 341	2 351 747	18 990 582	96 782 727	46.74	39.57
PDI Canada Inc.	Licence 177	F	4 746	4 746	134 706	134 706	10.47	10.47
<b>Subtotal Firm and Interruptible Exports: New Brunswick</b>			<b>463 820</b>	<b>2 765 243</b>	<b>22 760 866</b>	<b>121 188 277</b>	<b>48.10</b>	<b>42.02</b>
<b>Ontario</b>								
Cdn. Niagara	Permit 84	F	26 768	208 288	1 603 231	7 531 574	59.89	34.47
D&W Subway	Permit 26	F	147	1 095	0	0	0.00	0.00
Ind Elc Mark Op	Permit 22	N	219 017	572 341	0	0	0.00	0.00
Ont Power Gen	Permit 24	F	12	44	24	49	2.03	1.11
Ont. Hydro/OHIM	Permit 21	I	0	258 316	0	9 842 397	0.00	21.77
		S	0	11 112	0	11 572	0.00	0.07
Ontario Hydro	Permit 22	N	0	354 584	0	0	0.00	0.00
	Permit 24	F	0	64	0	127	0.00	2.00

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>	
			JUL99	JAN99 - JUL99	JUL99	JAN99 - JUL99	JUL99	L12M
OPGI/OHIM	Permit 21	I	305 646	1 200 857	64 889 970	106 824 899	211.20	86.17
		S	313	3 475	171	1 053	0.55	0.30
<b>Subtotal Firm and Interruptible Exports: Ontario</b>			<b>332 573</b>	<b>1 668 663</b>	<b>66 493 225</b>	<b>124 199 046</b>	<b>198.92</b>	<b>50.99</b>
<b>Quebec</b>								
Hydro-Quebec	Licence 176	F	625 469	2 905 389	20 495 673	95 033 521	32.77	33.87
		F	111 118	623 492	9 730 918	62 386 828	38.23	38.91
		F	18 366	158 596	1 579 072	14 477 401	38.23	37.32
		F	17 589	97 311	1 461 675	9 269 738	38.23	38.94
		F	27 832	167 406	2 533 724	16 733 248	38.23	38.92
		F	16 561	88 806	1 420 484	8 931 156	38.23	38.89
		I	537 677	1 428 829	30 502 640	67 433 086	56.73	47.30
		F	376 195	3 137 928	15 915 680	111 500 531	37.80	34.79
<b>Subtotal Firm and Interruptible Exports: Quebec</b>			<b>1 730 807</b>	<b>8 607 757</b>	<b>83 639 866</b>	<b>385 765 508</b>	<b>41.91</b>	<b>36.47</b>
<b>Saskatchewan</b>								
Powerex	Permit 116	I	0	2 196	0	86 794	0.00	39.68
Sask. Power	Licence 118	S	14 600	41 550	0	0	0.00	0.00
		I	15 925	39 125	984 593	1 719 471	61.83	40.43

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 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>	
			JUL99	JAN99 - JUL99	JUL99	JAN99 - JUL99	JUL99	L12M
Sask. Power	Licence 119	N	-1 805	-50 408	0	0	0.00	0.00
	Permit 89	F	27 133	65 260	1 760 606	3 283 087	64.89	48.28
<b>Subtotal Firm and Interruptible Exports: Saskatchewan</b>			<b>43 058</b>	<b>106 581</b>	<b>2 745 199</b>	<b>5 089 351</b>	<b>63.76</b>	<b>45.68</b>
<b>Total Firm and Interruptible Exports:</b>			<b>4 524 988</b>	<b>22 276 885</b>	<b>260 292 660</b>	<b>1 011 176 612</b>	<b>52.19</b>	<b>36.11</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>	
			JUL99	JAN99 - JUL99	JUL99	JAN99 - JUL99	JUL99	L12M
<b>Alberta</b>								
TransAlta	-	P	0	1 407	0	58 990	0.00	41.27
TransAlta Ener.		P	42 890	143 185	1 334 565	4 224 113	31.12	32.03
TransCanada		P	15 900	84 327	415 628	2 253 068	26.14	26.72
<b>Subtotal Purchased Imports: Alberta</b>			<b>58 790</b>	<b>228 919</b>	<b>1 750 193</b>	<b>6 536 171</b>	<b>29.77</b>	<b>30.42</b>
<b>British Columbia</b>								
BC Hydro		P	0	84	0	5 593	0.00	67.79
Cominco		P	0	10 535	0	0	0.00	0.00
Powerex		P	539 550	4 527 973	12 005 517	99 547 270	22.25	23.32
West Kootenay		P	0	68 812	0	1 908 882	0.00	21.40
<b>Subtotal Purchased Imports: British Columbia</b>			<b>539 550</b>	<b>4 607 404</b>	<b>12 005 517</b>	<b>101 461 745</b>	<b>22.25</b>	<b>23.25</b>
<b>Manitoba</b>								
Manitoba Hydro		N	-30 178	- 905 871	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>	
			JUL99	JAN99 - JUL99	JUL99	JAN99 - JUL99	JUL99	L12M
Manitoba Hydro	-	P	25 287	1 194 056	510 754	24 461 178	20.20	21.91
<b>Subtotal Purchased Imports: Manitoba</b>			<b>25 287</b>	<b>1 194 056</b>	<b>510 754</b>	<b>24 461 178</b>	<b>20.20</b>	<b>21.91</b>
<b>New Brunswick</b>								
Maine & NB		P	0	3 499	0	149 370	0.00	42.07
NB Power		N	- 420	16 935	0	0	0.00	0.00
		P	0	15 925	0	3 945	0.00	0.25
		S	9 809	37 496	0	0	0.00	0.00
PDI Canada Inc.		P	2 061	2 061	100 455	100 455	48.74	48.74
<b>Subtotal Purchased Imports: New Brunswick</b>			<b>2 061</b>	<b>21 485</b>	<b>100 455</b>	<b>253 770</b>	<b>48.74</b>	<b>14.31</b>
<b>Ontario</b>								
Cdn. Niagara		N	0	3 727	0	0	0.00	0.00
D&W Subway		P	144	994	0	0	0.00	0.00
Ind Elc Mark Op		N	208 573	562 339	0	0	0.00	0.00
Ontario Hydro		N	0	356 413	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>	
			JUL99	JAN99 - JUL99	JUL99	JAN99 - JUL99	JUL99	L12M
Ontario Hydro	-	P	0	200 504	0	8 981 354	0.00	35.30
		S	0	163 450	0	47 844	0.00	0.75
OPGI/OHIM		P	59 625	264 931	10 222 031	24 419 767	171.44	92.17
		S	3 454	12 842	2 045	11 437	0.59	0.89
<b>Subtotal Purchased Imports: Ontario</b>			<b>59 769</b>	<b>466 429</b>	<b>10 222 031</b>	<b>33 401 120</b>	<b>171.03</b>	<b>42.01</b>
<b>Quebec</b>								
Hydro-Quebec		I	0	41	0	1 947	0.00	47.50
		N	16 833	16 833	643 566	643 566	38.23	38.23
		P	96 519	1 638 364	4 658 975	64 531 791	31.53	32.54
		S	0	862 616	0	0	0.00	0.00
<b>Subtotal Purchased Imports: Quebec</b>			<b>96 519</b>	<b>1 638 405</b>	<b>4 658 975</b>	<b>64 533 738</b>	<b>31.53</b>	<b>32.55</b>
<b>Saskatchewan</b>								
Sask. Power		N	1 145	-51 546	0	0	0.00	0.00
		P	6 995	287 736	155 296	8 717 079	22.20	28.79
		S	0	58 400	0	0	0.00	0.00
<b>Subtotal Purchased Imports: Saskatchewan</b>			<b>6 995</b>	<b>287 736</b>	<b>155 296</b>	<b>8 717 079</b>	<b>22.20</b>	<b>28.79</b>
<b>Total Purchased Imports:</b>			<b>788 971</b>	<b>8 444 434</b>	<b>29 403 221</b>	<b>239 364 801</b>	<b>35.22</b>	<b>28.17</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>	
		JUL99	JAN99 - JUL99	JUL99	JAN99 - JUL99	JUL99	L12M
<b>Alaska</b>	British Columbia	77	1 032	2 023	52 831	26.26	58.20
<b>Subtotal Exports: Alaska</b>		<b>77</b>	<b>1 032</b>	<b>2 023</b>	<b>52 831</b>	<b>26.26</b>	<b>58.20</b>
<b>California</b>	Alberta	0	25	0	946	0.00	37.86
	British Columbia	191 435	445 556	8 618 370	18 234 930	45.02	40.93
<b>Subtotal Exports: California</b>		<b>191 435</b>	<b>445 581</b>	<b>8 618 370</b>	<b>18 235 877</b>	<b>45.02</b>	<b>40.93</b>
<b>Colorado</b>	British Columbia	1 114	1 930	72 073	106 871	64.70	55.37
<b>Subtotal Exports: Colorado</b>		<b>1 114</b>	<b>1 930</b>	<b>72 073</b>	<b>106 871</b>	<b>64.70</b>	<b>55.37</b>
<b>Idaho</b>	Alberta	0	125	0	3 839	0.00	30.71
	British Columbia	39 622	55 626	1 682 972	2 386 681	42.48	42.91
<b>Subtotal Exports: Idaho</b>		<b>39 622</b>	<b>55 751</b>	<b>1 682 972</b>	<b>2 390 520</b>	<b>42.48</b>	<b>42.88</b>
<b>Iowa</b>	Manitoba	5 981	36 944	223 680	1 334 156	37.40	31.17
<b>Subtotal Exports: Iowa</b>		<b>5 981</b>	<b>36 944</b>	<b>223 680</b>	<b>1 334 156</b>	<b>37.40</b>	<b>31.17</b>
<b>Kansas</b>	Manitoba	0	775	0	27 135	0.00	44.85
<b>Subtotal Exports: Kansas</b>		<b>0</b>	<b>775</b>	<b>0</b>	<b>27 135</b>	<b>0.00</b>	<b>44.85</b>
<b>Maine</b>	New Brunswick	463 820	2 765 243	22 760 866	121 188 277	48.10	42.02
<b>Subtotal Exports: Maine</b>		<b>463 820</b>	<b>2 765 243</b>	<b>22 760 866</b>	<b>121 188 277</b>	<b>48.10</b>	<b>42.02</b>
<b>Michigan</b>	Ontario	107 211	759 346	21 180 130	46 993 604	197.56	36.24
<b>Subtotal Exports: Michigan</b>		<b>107 211</b>	<b>759 346</b>	<b>21 180 130</b>	<b>46 993 604</b>	<b>197.56</b>	<b>36.24</b>
<b>Minnesota</b>	Manitoba	808 393	4 065 015	37 740 605	189 087 755	31.91	28.09
	Ontario	36 135	127 243	8 696 584	12 964 047	231.58	87.30

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>	
		JUL99	JAN99 - JUL99	JUL99	JAN99 - JUL99	JUL99	L12M
<b>Minnesota</b>	Saskatchewan	9 719	23 282	364 145	957 740	37.47	41.78
<b>Subtotal Exports: Minnesota</b>		<b>854 247</b>	<b>4 215 540</b>	<b>46 801 334</b>	<b>203 009 542</b>	<b>40.42</b>	<b>29.31</b>
<b>Missouri</b>	Manitoba	112	275	2 237	7 960	19.97	40.05
<b>Subtotal Exports: Missouri</b>		<b>112</b>	<b>275</b>	<b>2 237</b>	<b>7 960</b>	<b>19.97</b>	<b>40.05</b>
<b>Montana</b>	British Columbia	5 383	6 537	224 648	268 980	41.73	41.15
	Manitoba	94	5 094	3 683	152 995	39.18	30.71
	Saskatchewan	0	2 196	0	86 794	0.00	39.68
<b>Subtotal Exports: Montana</b>		<b>5 477</b>	<b>13 827</b>	<b>228 331</b>	<b>508 770</b>	<b>41.69</b>	<b>37.14</b>
<b>Nebraska</b>	Manitoba	2 352	25 745	21 480	886 271	29.21	37.75
<b>Subtotal Exports: Nebraska</b>		<b>2 352</b>	<b>25 745</b>	<b>21 480</b>	<b>886 271</b>	<b>29.21</b>	<b>37.75</b>
<b>New England</b>	Ontario	11 000	41 263	23 855 968	28 919 730	2168.72	616.88
	Quebec	752 810	4 145 787	26 752 355	142 382 553	35.54	35.16
<b>Subtotal Exports: New England</b>		<b>763 810</b>	<b>4 187 050</b>	<b>50 608 323</b>	<b>171 302 283</b>	<b>66.26</b>	<b>38.95</b>
<b>New York</b>	Ontario	178 227	728 262	12 760 543	34 883 498	71.54	42.54
	Quebec	183 612	1 837 048	13 004 670	66 866 844	70.83	36.54
<b>Subtotal Exports: New York</b>		<b>361 839</b>	<b>2 565 310</b>	<b>25 765 213</b>	<b>101 750 342</b>	<b>71.18</b>	<b>38.62</b>
<b>North Dakota</b>	British Columbia	205	448	134 814	146 243	657.63	326.44
	Manitoba	17 828	54 053	836 682	2 388 892	33.62	31.45
	Saskatchewan	23 801	58 738	1 690 182	2 837 656	71.01	50.40
<b>Subtotal Exports: North Dakota</b>		<b>41 834</b>	<b>113 239</b>	<b>2 661 678</b>	<b>5 372 791</b>	<b>57.95</b>	<b>40.58</b>
<b>Oregon</b>	Alberta	625	4 497	18 804	161 287	30.09	37.28

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>	
		JUL99	JAN99 - JUL99	JUL99	JAN99 - JUL99	JUL99	L12M
<b>Oregon</b>	British Columbia	29 221	157 029	1 379 970	5 777 578	47.23	36.79
	Manitoba	0	250	0	10 932	0.00	43.73
<b>Subtotal Exports: Oregon</b>		<b>29 846</b>	<b>161 776</b>	<b>1 398 774</b>	<b>5 949 797</b>	<b>46.87</b>	<b>36.82</b>
<b>Pennsylvania</b>	Ontario	0	12 550	0	438 166	0.00	36.48
<b>Subtotal Exports: Pennsylvania</b>		<b>0</b>	<b>12 550</b>	<b>0</b>	<b>438 166</b>	<b>0.00</b>	<b>36.48</b>
<b>South Dakota</b>	British Columbia	277	277	162 078	162 078	585.12	585.12
	Manitoba	0	388	0	10 144	0.00	23.46
<b>Subtotal Exports: South Dakota</b>		<b>277</b>	<b>665</b>	<b>162 078</b>	<b>172 222</b>	<b>585.12</b>	<b>146.16</b>
<b>Texas</b>	Manitoba	37 781	118 513	2 208 437	5 728 122	55.13	43.13
<b>Subtotal Exports: Texas</b>		<b>37 781</b>	<b>118 513</b>	<b>2 208 437</b>	<b>5 728 122</b>	<b>55.13</b>	<b>43.13</b>
<b>Vermont</b>	Quebec	794 385	2 624 922	43 882 841	176 516 111	41.27	39.08
<b>Subtotal Exports: Vermont</b>		<b>794 385</b>	<b>2 624 922</b>	<b>43 882 841</b>	<b>176 516 111</b>	<b>41.27</b>	<b>39.08</b>
<b>Washington</b>	Alberta	2 325	6 335	62 224	196 752	26.76	31.76
	British Columbia	808 247	3 928 216	31 162 416	141 254 270	38.56	32.77
	Saskatchewan	9 538	22 365	690 872	1 207 161	72.43	41.09
<b>Subtotal Exports: Washington</b>		<b>820 110</b>	<b>3 956 916</b>	<b>31 915 512</b>	<b>142 658 183</b>	<b>38.92</b>	<b>32.90</b>
<b>Wisconsin</b>	Manitoba	3 658	213 955	96 308	6 546 782	26.33	28.76
<b>Subtotal Exports: Wisconsin</b>		<b>3 658</b>	<b>213 955</b>	<b>96 308</b>	<b>6 546 782</b>	<b>26.33</b>	<b>28.76</b>
<b>Total Exports</b>		<b>4 524 988</b>	<b>22 276 885</b>	<b>260 292 660</b>	<b>1 011 176 612</b>	<b>52.19</b>	<b>36.11</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>	
		JUL99	JAN99 - JUL99	JUL99	JAN99 - JUL99	JUL99	L12M
<b>California</b>	Alberta	0	696	0	21 084	0.00	30.29
<b>Subtotal Imports: California</b>		<b>0</b>	<b>696</b>	<b>0</b>	<b>21 084</b>	<b>0.00</b>	<b>30.29</b>
<b>Idaho</b>	Alberta	1 645	20 379	77 684	605 712	47.22	29.89
<b>Subtotal Imports: Idaho</b>		<b>1 645</b>	<b>20 379</b>	<b>77 684</b>	<b>605 712</b>	<b>47.22</b>	<b>29.89</b>
<b>Iowa</b>	Manitoba	135	34 402	17 616	771 501	130.49	25.88
<b>Subtotal Imports: Iowa</b>		<b>135</b>	<b>34 402</b>	<b>17 616</b>	<b>771 501</b>	<b>130.49</b>	<b>25.88</b>
<b>Kansas</b>	Manitoba	0	7 750	0	179 117	0.00	23.11
<b>Subtotal Imports: Kansas</b>		<b>0</b>	<b>7 750</b>	<b>0</b>	<b>179 117</b>	<b>0.00</b>	<b>23.11</b>
<b>Maine</b>	New Brunswick	2 061	21 485	100 455	253 770	48.74	14.31
	Quebec	62 345	250 679	1 962 305	7 655 479	31.47	30.54
<b>Subtotal Imports: Maine</b>		<b>64 406</b>	<b>272 164</b>	<b>2 062 760</b>	<b>7 909 249</b>	<b>32.03</b>	<b>29.15</b>
<b>Michigan</b>	Ontario	5 697	87 260	1 527 922	6 092 367	268.22	34.41
<b>Subtotal Imports: Michigan</b>		<b>5 697</b>	<b>87 260</b>	<b>1 527 922</b>	<b>6 092 367</b>	<b>268.22</b>	<b>34.41</b>
<b>Minnesota</b>	Manitoba	13 120	930 548	244 050	18 911 134	18.60	21.77
	Ontario	253	10 371	7 076	325 302	27.97	25.55
	Saskatchewan	100	5 064	2 561	179 772	25.61	34.59
<b>Subtotal Imports: Minnesota</b>		<b>13 473</b>	<b>945 983</b>	<b>253 687</b>	<b>19 416 208</b>	<b>18.83</b>	<b>21.89</b>
<b>Missouri</b>	Manitoba	7	43	596	2 424	85.11	25.58
<b>Subtotal Imports: Missouri</b>		<b>7</b>	<b>43</b>	<b>596</b>	<b>2 424</b>	<b>85.11</b>	<b>25.58</b>
<b>Montana</b>	Alberta	625	2 862	7 935	109 796	12.70	38.89

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>	
		JUL99	JAN99 - JUL99	JUL99	JAN99 - JUL99	JUL99	L12M
<b>Montana</b>	British Columbia	0	84	0	5 593	0.00	67.79
	Manitoba	0	25 090	0	444 787	0.00	17.76
<b>Subtotal Imports: Montana</b>		<b>625</b>	<b>28 036</b>	<b>7 935</b>	<b>560 176</b>	<b>12.70</b>	<b>20.89</b>
<b>Nebraska</b>	Manitoba	63	63 862	7 700	1 232 318	122.23	20.05
<b>Subtotal Imports: Nebraska</b>		<b>63</b>	<b>63 862</b>	<b>7 700</b>	<b>1 232 318</b>	<b>122.23</b>	<b>20.05</b>
<b>New England</b>	Quebec	0	200 258	0	6 251 007	0.00	30.99
<b>Subtotal Imports: New England</b>		<b>0</b>	<b>200 258</b>	<b>0</b>	<b>6 251 007</b>	<b>0.00</b>	<b>30.99</b>
<b>New York</b>	Ontario	53 819	339 038	8 687 033	25 414 837	161.41	57.25
	Quebec	16 033	1 061 013	495 301	33 665 822	30.89	32.57
<b>Subtotal Imports: New York</b>		<b>69 852</b>	<b>1 400 051</b>	<b>9 182 334</b>	<b>59 080 659</b>	<b>131.45</b>	<b>41.11</b>
<b>North Dakota</b>	Manitoba	1 856	42 848	26 250	825 478	14.14	19.47
	Saskatchewan	6 195	240 537	134 810	7 233 804	21.76	28.51
<b>Subtotal Imports: North Dakota</b>		<b>8 051</b>	<b>283 385</b>	<b>161 060</b>	<b>8 059 283</b>	<b>20.00</b>	<b>27.65</b>
<b>Oregon</b>	Alberta	25 903	94 511	817 744	2 759 026	31.57	31.62
<b>Subtotal Imports: Oregon</b>		<b>25 903</b>	<b>94 511</b>	<b>817 744</b>	<b>2 759 026</b>	<b>31.57</b>	<b>31.62</b>
<b>Pennsylvania</b>	Ontario	0	29 760	0	1 568 615	0.00	52.71
<b>Subtotal Imports: Pennsylvania</b>		<b>0</b>	<b>29 760</b>	<b>0</b>	<b>1 568 615</b>	<b>0.00</b>	<b>52.71</b>
<b>South Dakota</b>	Manitoba	10 092	33 508	213 910	731 788	21.20	25.21
<b>Subtotal Imports: South Dakota</b>		<b>10 092</b>	<b>33 508</b>	<b>213 910</b>	<b>731 788</b>	<b>21.20</b>	<b>25.21</b>
<b>Texas</b>	Manitoba	0	10 095	0	323 336	0.00	32.03
<b>Subtotal Imports: Texas</b>		<b>0</b>	<b>10 095</b>	<b>0</b>	<b>323 336</b>	<b>0.00</b>	<b>32.03</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>	
		JUL99	JAN99 - JUL99	JUL99	JAN99 - JUL99	JUL99	L12M
<b>Vermont</b>	Quebec	18 141	126 455	2 201 368	16 961 430	32.29	36.95
<b>Subtotal Imports: Vermont</b>		<b>18 141</b>	<b>126 455</b>	<b>2 201 368</b>	<b>16 961 430</b>	<b>32.29</b>	<b>36.95</b>
<b>Washington</b>	Alberta	30 617	110 471	846 831	3 040 552	27.66	29.09
	British Columbia	539 550	4 607 320	12 005 517	101 456 152	22.25	23.24
	Saskatchewan	700	42 135	17 925	1 303 503	25.61	31.25
<b>Subtotal Imports: Washington</b>		<b>570 867</b>	<b>4 759 926</b>	<b>12 870 272</b>	<b>105 800 207</b>	<b>22.55</b>	<b>23.43</b>
<b>Wisconsin</b>	Manitoba	14	45 910	633	1 039 294	45.19	23.77
<b>Subtotal Imports: Wisconsin</b>		<b>14</b>	<b>45 910</b>	<b>633</b>	<b>1 039 294</b>	<b>45.19</b>	<b>23.77</b>
<b>Total Imports</b>		<b>788 971</b>	<b>8 444 434</b>	<b>29 403 221</b>	<b>239 364 801</b>	<b>35.22</b>	<b>28.17</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	JUL99		
	Energy (MW.h)	Revenue (CAN\$) <sup>2</sup>	CAN\$/MW.h <sup>2</sup>
Hydraulic	3 111 298	129 085 244	41.49
Imported Coal	150 066	15 280 756	101.83
Imported Oil	144 499	17 745 622	122.81
Natural Gas	44 795	4 259 642	95.09
Nuclear	1	163	162.95
Other	974 256	63 677 129	65.36
<b>Total</b>	<b>4 424 915</b>	<b>230 048 554</b>	<b>51.99</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	JUL99		
			Energy (MW.h)	Revenue (CAN\$) <sup>2</sup>	CAN\$/MW.h <sup>2</sup>
Hydro-Quebec	Hydraulic	Licence 176	625 469	20 495 673	32.77
		Licence 180	111 118	4 248 306	38.23
		Licence 181	18 366	702 176	38.23
		Licence 182	17 589	672 469	38.23
		Licence 183	27 832	1 064 084	38.23
		Licence 184	16 561	633 167	38.23
		Permit 64	537 677	30 502 640	56.73
		Permit 65	376 195	14 219 565	37.80
		<b>Subtotal</b>	<b>1 730 807</b>	<b>72 538 080</b>	<b>41.91</b>
		<b>Subtotal</b>		<b>1 730 807</b>	<b>72 538 080</b>
Manitoba Hydro	Hydraulic	Licence 170	298 350	6 278 182	21.04
		Permit 33	58 930	1 219 648	20.70
		Permit 34	38 310	903 681	23.59
		Permit 35	24 800	648 878	26.16
		Permit 45	153 348	7 320 529	47.74
		Permit 46	255 796	10 716 961	41.90
		Permit 52	6 890	173 112	25.13
		Permit 68	12 580	309 579	24.61
		<b>Subtotal</b>	<b>849 004</b>	<b>27 570 571</b>	<b>32.47</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	JUL99		
			Energy (MW.h)	Revenue (CAN\$) <sup>2</sup>	CAN\$/MW.h <sup>2</sup>
Manitoba Hydro	Other	Permit 45	26 862	1 282 338	47.74
		<b>Subtotal</b>	<b>26 862</b>	<b>1 282 338</b>	<b>47.74</b>
	<b>Subtotal</b>		<b>875 866</b>	<b>28 852 909</b>	<b>32.94</b>
NB Power	Imported Coal	Permit 47	235	12 421	52.90
		Permit 91	652	30 442	46.67
		<b>Subtotal</b>	<b>887</b>	<b>42 863</b>	<b>48.32</b>
	Imported Oil	Permit 16	4 380	250 186	57.12
		Permit 18	945	47 005	49.76
		Permit 47	5 847	309 301	52.90
		Permit 91	78 925	3 685 835	46.70
		<b>Subtotal</b>	<b>90 096</b>	<b>4 292 328</b>	<b>47.64</b>
	Other	Permit 15	103	10 085	97.91
		Permit 16	16 101	908 285	56.41
		Permit 18	4 431	220 488	49.76
		Permit 47	1 287	68 098	52.90
		Permit 91	322 661	15 077 439	46.73
	<b>Subtotal</b>	<b>344 584</b>	<b>16 284 395</b>	<b>47.26</b>	
	<b>Subtotal</b>		<b>435 567</b>	<b>20 619 585</b>	<b>47.34</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	JUL99			
			Energy (MW.h)	Revenue (CAN\$) <sup>2</sup>	CAN\$/MW.h <sup>2</sup>	
<b>OPGI/OHIM</b>	Hydraulic	Permit 21	21 899	9 764 068	445.87	
		<b>Subtotal</b>	<b>21 899</b>	<b>9 764 068</b>	<b>445.87</b>	
	Imported Coal	Permit 21	149 179	15 237 893	102.15	
		<b>Subtotal</b>	<b>149 179</b>	<b>15 237 893</b>	<b>102.15</b>	
	Imported Oil	Permit 21	54 403	13 453 294	247.29	
		<b>Subtotal</b>	<b>54 403</b>	<b>13 453 294</b>	<b>247.29</b>	
	Natural Gas	Permit 21	44 795	4 259 642	95.09	
		<b>Subtotal</b>	<b>44 795</b>	<b>4 259 642</b>	<b>95.09</b>	
	Nuclear	Permit 21	1	163	162.95	
		<b>Subtotal</b>	<b>1</b>	<b>163</b>	<b>162.95</b>	
	Other	Permit 21	35 369	21 836 129	617.38	
		<b>Subtotal</b>	<b>35 369</b>	<b>21 836 129</b>	<b>617.38</b>	
		<b>Subtotal</b>		<b>305 646</b>	<b>64 551 189</b>	<b>211.20</b>
	<b>Powerex</b>	Hydraulic	Permit 92	44 160	0	0.00
			Permit 95	6 525	210 619	32.28
Permit 118			429 129	18 369 460	42.81	
Permit 119			27 974	584 715	20.90	
<b>Subtotal</b>			<b>507 788</b>	<b>19 164 794</b>	<b>37.74</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	JUL99		
			Energy (MW.h)	Revenue (CAN\$) <sup>2</sup>	CAN\$/MW.h <sup>2</sup>
Powerex	Other	Permit 118	565 916	24 224 816	42.81
		<b>Subtotal</b>	<b>565 916</b>	<b>24 224 816</b>	<b>42.81</b>
	<b>Subtotal</b>		<b>1 073 704</b>	<b>43 389 610</b>	<b>40.41</b>
TransAlta Ener.	Other	Permit 74	1 525	49 451	32.43
		<b>Subtotal</b>	<b>1 525</b>	<b>49 451</b>	<b>32.43</b>
	<b>Subtotal</b>		<b>1 525</b>	<b>49 451</b>	<b>32.43</b>
West Kootenay	Hydraulic	Permit 66	1 800	47 731	26.52
		<b>Subtotal</b>	<b>1 800</b>	<b>47 731</b>	<b>26.52</b>
	<b>Subtotal</b>		<b>1 800</b>	<b>47 731</b>	<b>26.52</b>
<b>Total All Exporters</b>			<b>4 424 915</b>	<b>230 048 554</b>	<b>51.99</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.