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Board



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appendices



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annual report 2002

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Donna Dunn

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A1. Crude Oil and Equivalent Supply and Disposition

(thousand cubic metres per day)

| | 1998 | 1999 | 2000 | 2001 | 2002 ^(e) |
|--|--------------|--------------|--------------|--------------|---------------------|
| Supply | | | | | |
| Canadian Production ^(a) | 348.3 | 334.4 | 342.7 | 347.4 | 370.4 |
| Imports ^(b) | 120.1 | 128.1 | 141.2 | 146.4 | 141.1 |
| Total Supply^(d) | 468.4 | 462.5 | 483.9 | 493.8 | 511.5 |
| Disposition | | | | | |
| Domestic ^(b) | 257.8 | 262.6 | 271.3 | 282.2 | 286.9 |
| Exports ^(c) | 212.5 | 199.7 | 220.3 | 222.9 | 229.5 |
| Total Disposition^(d) | 470.3 | 462.3 | 491.6 | 505.1 | 516.4 |

a) Source: NEB.

b) Source: Statistics Canada/NEB Weekly Crude Run Report.

c) Source: NEB Form 306 - Crude Oil Exports.

d) Total supply does not equal total disposition due to inventory changes, etc.

e) Estimate.

A2. Estimated Established Reserves of Crude Oil and Bitumen as of 31 December 2001

(million cubic metres)

| | Initial | Remaining |
|--|-----------------|-----------------|
| Conventional Crude Oil | | |
| British Columbia ^(a) | 123.0 | 25.5 |
| Alberta ^(b) | 2 583.0 | 278.4 |
| Saskatchewan ^(c) | 754.0 | 182.0 |
| Manitoba ^(d) | 37.4 | 3.8 |
| Ontario ^(e) | 14.4 | 1.9 |
| NWT and Yukon: | | |
| Arctic Island & Eastern Arctic Offshore ^(f) | 0.5 | 0.0 |
| Mainland Territories - Norman Wells | 43.0 | 10.4 |
| Nova Scotia ^(d) - Cohasset and Panuke | 7.0 | 0.0 |
| Newfoundland ^(d) - Hibernia and Terra Nova | 205.1 | 178.3 |
| Total | 3 767.4 | 680.3 |
| Crude Bitumen | | |
| Oil Sands - Upgraded Crude ^(b) | 5 590.0 | 5 195.0 |
| Oil Sands - Bitumen ^(b) | 22 740.0 | 22 575.0 |
| Total | 28 330.0 | 27 770.0 |
| Total Conventional & Bitumen | 32 097.4 | 28 450.3 |

a) British Columbia Ministry of Energy & Mines and NEB common database.

b) Alberta Energy & Utilities Board and NEB common database.

c) NEB estimate for 31 December 2001.

d) Provincial Agencies and offshore Boards.

e) Canadian Association of Petroleum Producers.

f) Bent Horn abandoned in 1996.

A3. Natural Gas Supply and Disposition

(billion cubic metres)

| | 1998 | 1999 | 2000 | 2001 | 2002 ^(c) |
|---------------------------|--------------|--------------|--------------|--------------|---------------------|
| Supply | | | | | |
| Marketable Gas Production | 165.2 | 170.3 | 173.0 | 177.4 | 175.8 |
| Imports | 1.1 | 1.4 | 2.3 | 6.5 | 7.1 |
| Total Supply | 166.3 | 171.7 | 175.3 | 183.9 | 182.9 |
| Disposition | | | | | |
| Domestic ^(a) | 64.0 | 66.3 | 72.4 | 66.8 | 69.2 |
| Exports | 88.1 | 95.5 | 101.7 | 106.3 | 98.2 |
| Other Uses ^(b) | 14.1 | 9.9 | 1.2 | 10.8 | 15.5 |
| Total Disposition | 166.2 | 171.7 | 175.3 | 183.9 | 182.9 |

a) Source: Statistics Canada.

b) Includes pipeline fuel and losses, reprocessing, shrinkage and fuel, and net storage inventory change.

c) Estimate.

A4. Estimated Established Reserves of Marketable Natural Gas as of 31 December 2001

(billion cubic metres)

| | Initial | Remaining |
|---------------------------------------|----------------|----------------|
| British Columbia ^(a) | 663.1 | 252.1 |
| Alberta ^(b) | 4 178.2 | 1 182.7 |
| Saskatchewan ^(c) | 215.0 | 77.6 |
| Ontario ^(d) | 44.6 | 11.6 |
| NWT and Yukon | 26.8 | 14.0 |
| Nova Scotia - Offshore ^(c) | 85.0 | 76.5 |
| Total | 5 212.7 | 1 614.5 |

a) British Columbia Ministry of Energy & Mines and NEB common database.

b) Alberta Energy & Utilities Board and NEB common database.

c) NEB estimate for 31 December 2001.

d) Canadian Association of Petroleum Producers.

A5. Natural Gas Liquids Supply and Disposition

(thousand cubic metres per day)

| | 1998 | 1999 | 2000 | 2001 | 2002 ^(e) |
|--|--------------|--------------|--------------|--------------|---------------------|
| Supply | | | | | |
| Canadian Production ^(a) | 96.3 | 101.2 | 99.8 | 94.2 | 94.7 |
| Imports ^(b) | 1.3 | 1.4 | 1.6 | 2.2 | 2.3 |
| Total Supply^(d) | 97.6 | 102.6 | 101.4 | 96.4 | 97.0 |
| Disposition | | | | | |
| Domestic ^(b) | 62.6 | 72.4 | 68.1 | 71.5 | 71.0 |
| Exports ^(c) | 37.6 | 34.0 | 35.0 | 28.8 | 31.1 |
| Total Disposition^(d) | 100.2 | 106.4 | 103.1 | 100.3 | 102.1 |

a) Source: NEB.

b) Source: NEB Form 145.

c) Source: NEB Form 157 and 86A.

d) Total supply may not equal total disposition due to inventory changes, etc.

e) Estimate.

A6. Geophysical Activity

(active seismic crews)

| | 1998 | 1999 | 2000 | 2001 | 2002 |
|-----------|------|------|------|------|------|
| January | 75 | 48 | 49 | 39 | 21 |
| February | 74 | 37 | 49 | 50 | 31 |
| March | 55 | 36 | 45 | 61 | 33 |
| April | 12 | 13 | 22 | 23 | 12 |
| May | 22 | 10 | 16 | 27 | 6 |
| June | 37 | 16 | 15 | 31 | 7 |
| July | 36 | 24 | 38 | 36 | 13 |
| August | 27 | 37 | 34 | 37 | 17 |
| September | 22 | 38 | 20 | 34 | 12 |
| October | 24 | 40 | 28 | 25 | 15 |
| November | 27 | 38 | 34 | 23 | 21 |
| December | 43 | 40 | 27 | 24 | 18 |

Source: Petroleum Explorer.

A7. Exploration and Development Expenditures

(million \$)

| | 1998 | 1999 | 2000 | 2001 | 2002 ^(c) |
|-----------------------------------|---------------|---------------|---------------|---------------|---------------------|
| Exploration | | | | | |
| Conventional Areas ^(a) | 4 840 | 3 873 | 5 932 | 6 604 | 5 240 |
| Frontier Areas ^(b) | 214 | 513 | 639 | 884 | 700 |
| Total Canada | 5 054 | 4 386 | 6 571 | 7 488 | 5 940 |
| Development | | | | | |
| Conventional Areas ^(a) | 8 076 | 6 842 | 10 557 | 12 974 | 10 300 |
| Frontier Areas ^(b) | 1 865 | 2 347 | 1 492 | 1 337 | 1 060 |
| Total Canada | 9 941 | 9 189 | 12 049 | 14 310 | 11 360 |
| Total Expenditures | 14 995 | 13 575 | 18 620 | 21 798 | 17 300 |

a) Alberta, British Columbia, Saskatchewan, Manitoba, Ontario.

b) Northwest Territories, Yukon Territory and Offshore.

c) Estimate.

Source: Canadian Association of Petroleum Producers.

A8. Sales of Exploration Rights in Western Canada

| | 1998 | 1999 | 2000 | 2001 | 2002 |
|---------------------------|--------------|--------------|--------------|--------------|--------------|
| Area (1000 ha) | | | | | |
| Alberta | 3 015 | 2 996 | 3 831 | 3 908 | 2 776 |
| British Columbia | 483 | 731 | 693 | 854 | 849 |
| Saskatchewan | 509 | 398 | 283 | 373 | 654 |
| Manitoba | 4 | 4 | 5 | 22 | 3 |
| Total | 4 011 | 4 129 | 4 812 | 5 157 | 4 281 |
| Price (million \$) | | | | | |
| Alberta | 597 | 593 | 1 142 | 1 086 | 501 |
| British Columbia | 96 | 176 | 248 | 440 | 288 |
| Saskatchewan | 61 | 46 | 48 | 56 | 103 |
| Manitoba | 0 | 0 | 0 | 1 | 1 |
| Total | 754 | 815 | 1 439 | 1 583 | 893 |

Source: Daily Oil Bulletin.

A9. Sales of Exploration Rights in Frontier Regions

| | 1998 | 1999 | 2000 | 2001 | 2002 |
|---|-------|-------|-------|-------|-------|
| Nova Scotia Offshore | | | | | |
| Licences | 8 | 21 | 11 | 8 | 9 |
| Expenditures (million \$) | 94 | 597 | 61 | 192 | 527 |
| Area (1000 ha) | 1 134 | 2 402 | 1 245 | 1 254 | 1 580 |
| Newfoundland Offshore | | | | | |
| Licences | 10 | 5 | 10 | 9 | — |
| Expenditures (million \$) | 175 | 192 | 89 | 15 | — |
| Area (1000 ha) | 630 | 818 | 1 599 | 1 197 | — |
| Beaufort Sea and Mackenzie Delta | | | | | |
| Licences | — | 4 | 9 | — | 2 |
| Expenditures (million \$) | — | 183 | 466 | — | 14 |
| Area (1000 ha) | — | 293 | 709 | — | 46 |
| Central Mackenzie Valley | | | | | |
| Licences | — | — | 6 | 5 | — |
| Expenditures (million \$) | — | — | 58 | 18 | — |
| Area (1000 ha) | — | — | 764 | 398 | — |
| TOTAL | | | | | |
| Licences | 18 | 30 | 36 | 22 | 11 |
| Expenditures (million \$) | 270 | 973 | 696 | 228 | 541 |
| Area (1000 ha) | 1 764 | 3 514 | 4 317 | 2 849 | 1 626 |

Source: DIAND, C-NSOPB, C-NOPB.

A10. Electricity Generation and Disposition

| | 1998 | 1999 | 2000 | 2001 | 2002 ^(b) |
|--------------------------|--------------|--------------|--------------|--------------|---------------------|
| Supply | | | | | |
| Total Generation | 544.0 | 558.0 | 582.8 | 564.7 | 578.4 |
| Imports ^(a) | 15.2 | 15.0 | 13.7 | 15.9 | 13.9 |
| Total Supply | 559.2 | 573.0 | 596.5 | 580.6 | 592.3 |
| Disposition | | | | | |
| Demand | 516.9 | 529.2 | 546.9 | 542.4 | 557.6 |
| Exports ^(a) | 42.2 | 43.8 | 49.6 | 38.2 | 34.7 |
| Total Disposition | 559.2 | 573.0 | 596.5 | 580.6 | 592.3 |

a) Includes service flows and other adjustments.

b) Estimate.

Source: Statistics Canada, NEB.

B1. Certificates Issued During 2002 Approving Oil Pipeline Facilities Including Pipeline Construction Exceeding 40 Kilometres in Length

| Applicant | Certificate Number | Date Issued | Description | Estimated Cost (\$) |
|---------------------|--------------------|-------------|-------------|---------------------|
| None issued in 2002 | | | | |

B2. Orders Issued During 2002 Approving Oil Pipeline Facilities Including Pipeline Construction Not Exceeding 40 Kilometres in Length

| Applicant | Order Number | Date Issued | Description | Estimated Cost (\$) |
|---|-----------------|-------------|--|---------------------|
| Sonoco Logistics Partners Operations GP LLC | XO-S009-1-2002 | 2002-01-10 | Change of Ownership of the Sun Pipeline | N/A |
| Paramount Transmission Ltd. | XO-P097-2-2202 | 2002-01-17 | Construction of Cameron Hills Pipeline and Fuel Gas Pipeline | 3,630,000 |
| Trans Mountain Pipe Line Company Ltd. | XO-T004-3-2002 | 2002-02-07 | Extension of Expiry Dates of Orders for Various Construction Projects | 730,000 |
| Trans Mountain Pipe Line Company Ltd. | XO-T004-4-2002 | 2002-02-07 | Athabasca River Bank Armouring Project | 2,670,000 |
| Enbridge Pipelines Inc. | XO-E101-5-2002 | 2002-02-14 | Various Construction Projects | 24,639,100 |
| Enbridge Pipelines (NW) Inc. | XO-E102-6-2002 | 2002-02-20 | Corrosion Protection Facilities | 41,400 |
| Enbridge Pipelines Inc. | XO-E101-7-2002 | 2002-03-08 | Construction of Custody Transfer Metering and Tank Manifold Connection | 5,290,000 |
| Williams Energy (Canada) Inc. | XO-W039-8-2002 | 2002-03-14 | Hot Tap Installation | 90,000 |
| Trans-Northern Pipelines Inc. | XO-T002-9-2002 | 2002-04-02 | Modifications to Oakville and Nanticoke Pump Stations | 2,860,000 |
| Enbridge Pipelines Inc. | XO-E101-10-2002 | 2002-04-08 | Terrace Phase III Expansion Project | 135,000,000 |
| Enbridge Pipelines (Westpur) Inc. | XO-E103-11-2002 | 2002-06-28 | Upgrade SCADA | 350,000 |
| Enbridge Pipelines Inc. | XO-E101-12-2002 | 2002-07-12 | Deactivation of 10 Pipeline Sections | 0 |
| Enbridge Pipelines Inc. | XO-E101-13-2002 | 2002-07-26 | Line 1 Pump Vent Piping Installation and Orifice Plate Replacement | 800,000 |
| Enbridge Pipelines Inc. | XO-E101-14-2002 | 2002-08-02 | Pipeline Maintenance Shop - Hardisty | 1,190,000 |
| Trans-Northern Pipelines Inc. | XO-T002-15-2002 | 2002-08-20 | Pipeline Lowerings and Relocations | 450,000 |
| Enbridge Pipelines Inc. | XO-E101-16-2002 | 2002-08-20 | Pipeline Lowerings and Relocations | 1,155,100 |
| Trans Mountain Pipe Line Company Ltd. | XO-T004-17-2002 | 2002-08-28 | Pipeline Replacements | 325,000 |
| Trans-Northern Pipelines Inc. | XO-T002-18-2002 | 2002-09-03 | Replacement of Pipeline Sections | 390,000 |
| Enbridge Pipelines Inc. | XO-E101-19-2002 | 2002-09-12 | Construction of Receipt Tankage Additions and Manifold Modifications at Hardisty | 11,552,500 |
| Trans-Northern Pipelines Inc. | XO-T002-20-2002 | 2002-09-16 | Replacement of Pipeline Sections | 670,000 |
| Pouce Coupé Pipe Line Ltd. | XO-P123-21-2002 | 2002-10-01 | Transfer of Assets | 34,200 |
| Enbridge Pipelines Inc. | XO-E101-22-2002 | 2002-10-15 | Keyser Station Actuator and Power Pack Replacement | 2,860,000 |
| Enbridge Pipelines Inc. | XO-E101-23-2002 | 2002-11-18 | Pigging Facilities - Bronte Lateral | 1,548,400 |
| Enbridge Pipelines Inc. | XO-E101-24-2002 | 2002-12-23 | Westpur Year 2003 Facilities Construction | 434,500 |

N/A: not applicable

B3. Exports of Canadian Crude Oil and Equivalent - 2001 and 2002

(cubic metres)

| Consignee | 2001 | | 2002 ^(a) | |
|---|-------------------|----------------|---------------------|----------------|
| | Total | Daily Average | Total | Daily Average |
| Astra Oil | 178 931 | 490 | — | — |
| BASF | 43 868 | 120 | — | — |
| BP | 11 839 516 | 32 437 | 9 908 857 | 27 148 |
| ChevronTexaco | 698 298 | 1 913 | 1 114 332 | 3 053 |
| CITGO | 82 376 | 226 | 2 357 265 | 6 458 |
| Conoco Inc. | 5 212 482 | 14 281 | 3 909 417 | 10 711 |
| ConocoPhillips (merger September 1, 2002) | — | — | 5 336 706 | 14 621 |
| Cooperative Refining LLC | 208 154 | 570 | 106 587 | 292 |
| Equistar Chemical | 90 735 | 249 | — | — |
| Equiva Trading International | 599 350 | 1 642 | 431 794 | 1 183 |
| ExxonMobil Corporation | 13 712 001 | 37 567 | 14 987 456 | 41 062 |
| Farmers Union Central Exchange, Incorp. | 2 488 947 | 6 819 | 2 811 258 | 7 702 |
| Flint Hills Resources LP (formerly Koch) | 13 143 320 | 36 009 | 13 515 749 | 37 029 |
| Flying J. Inc. | 445 083 | 1 219 | 365 592 | 1 002 |
| Frontier Oil & Refining Company | 978 574 | 2 681 | 989 154 | 2 710 |
| Marathon Ashland Petroleum LLC | 6 642 478 | 18 199 | 6 270 521 | 17 180 |
| Montana Refining Company | 303 798 | 832 | 357 173 | 979 |
| Murphy Oil USA Inc. | 1 778 519 | 4 873 | 1 414 855 | 3 876 |
| PDV Midwest Refining | 4 887 770 | 13 391 | 3 515 624 | 9 632 |
| Phillips Petroleum Company | 102 167 | 280 | 5 362 123 | 14 691 |
| Premcor Refining | 497 703 | 1 364 | 84 671 | 232 |
| Shell Oil Company | — | — | 337 183 | 924 |
| Silver Eagle Refinery | 30 948 | 85 | — | — |
| Sinclair Oil Corp. | 978 697 | 2 681 | 1 742 513 | 4 774 |
| South Korea Oil | 91 533 | 251 | 61 977 | 170 |
| Sun Refining and Marketing Company | 4 600 475 | 12 604 | 3 233 762 | 8 860 |
| Tesoro Refining | 2 573 465 | 7 051 | 1 722 967 | 4 720 |
| Tosco Refining | 4 508 973 | 12 353 | — | — |
| Ultramar Inc. | 139 733 | 383 | — | — |
| United Refining Company | 3 537 390 | 9 691 | 3 378 306 | 9 256 |
| U. S. Oil & Refining Co. | 10 189 | 28 | — | — |
| Valero Refining | — | — | 296 528 | 812 |
| Other | 214 611 | 588 | 175 004 | 479 |
| Total | 80 620 082 | 220 877 | 83 787 371 | 229 554 |

a) Estimate.

B4. Exports of Canadian Crude Oil and Equivalent

(cubic metres per day)

| | 1998 | 1999 | 2000 | 2001 | 2002 ^(a) |
|--------------------------------|----------------|----------------|----------------|----------------|---------------------|
| Light Crude Oil and Equivalent | 82 006 | 79 329 | 85 793 | 80 227 | 86 422 |
| Heavy Crude Oil | 130 540 | 119 677 | 133 571 | 140 650 | 143 132 |
| Total | 212 546 | 199 006 | 219 363 | 220 877 | 229 554 |

a) Estimate.

B5. Exports of Petroleum Products by Month^(a) - 2002

(cubic metres)

| Month | Motor Gasoline | Middle Distillates | Heavy Fuel Oil | Aviation Turbine Fuel | Partially Processed Oil | Total |
|-------------------------|-------------------|-----------------------|----------------------|-----------------------------|-------------------------------|-------------------|
| January | 749 821 | 584 228 | 241 135 | 4 793 | 20 881 | 1 600 858 |
| February | 706 288 | 498 269 | 157 988 | 26 672 | 47 884 | 1 437 101 |
| March | 819 792 | 617 862 | 251 814 | 9 452 | 49 316 | 1 748 236 |
| April | 790 051 | 565 091 | 184 860 | 7 112 | 60 401 | 1 607 515 |
| May | 745 348 | 593 503 | 176 672 | 36 140 | 45 010 | 1 596 672 |
| June | 849 826 | 535 701 | 158 889 | 19 742 | — | 1 564 159 |
| July | 738 757 | 519 963 | 257 477 | 26 574 | — | 1 542 771 |
| August | 750 678 | 619 536 | 186 795 | 33 269 | 40 283 | 1 630 561 |
| September | 669 626 | 588 307 | 249 412 | 12 132 | 2 354 | 1 521 831 |
| October | 781 538 | 630 588 | 239 604 | 84 837 | 5 751 | 1 742 317 |
| November | 828 998 | 725 018 | 321 339 | 4 553 | 5 794 | 1 885 702 |
| December ^(b) | 782 492 | 601 258 | 225 166 | 24 621 | 25 772 | 1 659 309 |
| Total | 9 213 214 | 7 079 324 | 2 651 152 | 289 896 | 303 445 | 19 537 032 |

a) Excludes propane, butane, lubricants, greases, asphalt, petrochemicals, etc.

b) Estimate.

B6. Exports of Petroleum Products by Company - 2001 and 2002

(cubic metres)

| Exporter | 2001 | 2002^(a) |
|--|-------------------|---------------------------|
| Chevron Canada Limited | 202 253 | 201 030 |
| Consumers Co-operative Refineries Ltd. | 22 912 | 19 787 |
| CXY Energy | — | — |
| Equiva Trading International | — | — |
| Farmers Union Central Exchange, Incorp. | 17 379 | 19 772 |
| Four Directions Petroleum (First Nation) | 139 267 | 41 596 |
| Gale's Gas Bars Limited | 28 822 | — |
| Griffith Oil Co. | 79 000 | 81 027 |
| Husky Oil Marketing Ltd. | 73 489 | 21 056 |
| Imperial Oil Limited | 1 395 779 | 949 755 |
| Irving Oil Limited | 10 115 240 | 10 967 897 |
| Kildair Service Ltee | 21 078 | 7 334 |
| MacEwen Petroleum Inc. | 31 833 | 29 455 |
| MX Petroleum Corp. | 100 823 | 92 182 |
| Neste Petroleum (Canada) Inc. | 3 435 | — |
| Nexen Marketing | 9 900 | — |
| North 60 Petro Ltd. | 20 280 | 22 946 |
| North Atlantic Refining Limited | 4 714 318 | 4 775 762 |
| Novacor Chemicals (Canada) Ltd. | 205 870 | 69 970 |
| Olco Oil | 210 595 | 198 168 |
| Petro-Canada Products | 163 386 | 224 271 |
| Pétroles Norcan Inc. | — | — |
| Shell Canada Products Limited | 286 323 | 351 446 |
| Suncor Energy Marketing Inc. | 178 894 | 251 675 |
| Sunoco Inc.*** | 141 768 | 134 606 |
| Ultramar Canada Inc. | 875 870 | 1 038 241 |
| Warner Petroleum Corporation | — | 19 400 |
| White Arrow Service Stations Inc. | 19 521 | 19 655 |
| TOTAL | 19 058 034 | 19 537 031 |

(a) Estimate.

*** name changed to Suncor Energy Products Inc. in 2002.

C1. Certificates Issued During 2002 Approving the Construction of Gas Pipeline Facilities Exceeding 40 Kilometres in Length

| Applicant | Certificate Number | Date Issued | Description | Estimated Cost (\$) |
|------------------------------|--------------------|-------------|---|---------------------|
| Petro-Canada | GC-105 | 2002-01-04 | Medicine Hat Pipeline (GH-3-2001) | 10,111,000 |
| Westcoast Energy Inc. (Duke) | GC-106 | 2002-10-29 | Grizzly Extension Pipeline and the Weejoy Lateral (GH-2-2002) | 64,500,000 |

C2. Orders Issued During 2002 Approving the Construction of Gas Pipeline Facilities Not Exceeding 40 Kilometres in Length

| Applicant | Order Number | Date Issued | Description | Estimated Cost (\$) |
|------------------------------------|----------------------|-------------|---|---------------------|
| BP Canada Energy Resources Company | XG-B065-1-2001 | 2002-01-10 | Sale/Purchase of a Pipeline | 0 |
| Consumers' Gas (Canada) Ltd. | XG-C283-2-2002 | 2002-01-14 | Hot Tap Installation | 60,000 |
| Murphy Oil Company | XG-M023-3-2002 | 2002-01-16 | Construction of Two Pipelines in the Ladyfern Area of BC/AB | 8,600,000 |
| Star Oil & Gas Ltd. | XG-S168-4-2002 | 2002-01-16 | Construction of Two Pipelines in the Dawson Creek Area of BC/AB | 8,600,000 |
| TransCanada Pipelines Limited | XG-T054-5-2002 | 2002-01-21 | Elko Avon Reconfiguration Project | 450,000 |
| Petro-Canada Oil and Gas | XG-Z005-6-2002 | 2002-01-24 | Deactivate a Section of the Goodlow Pipeline | 450,000 |
| Husky Oil Operations Limited | XG-H012-7-2002 | 2002-01-24 | Rainbow Bivouac Pipeline | 1,832,500 |
| Foothills Pipe Lines Ltd. | XG-F006-8-2002 | 2002-02-11 | Pipeline Recoating - Zone 9 | 400,000 |
| Shiha Energy Transmission Ltd. | XG-S056-9-2002 | 2002-02-28 | Construction and Operation of a Vertically Perpendicular Tap | 25,000 |
| TransCanada Pipelines Limited | XG-T001-10-2002 | 2002-03-18 | Selkirk Sales Meter Station | 720,400 |
| Many Islands Pipe Lines | XG-M029-11-2002 | 2002-03-19 | Sibbald/Hoosier Pipeline Sever and Transfer | 16,000 |
| Alta Gas Services Inc. | XG-A096-12-2002 | 2002-03-19 | Sibbald/Hoosier Pipeline Sever and Transfer | 20,000 |
| Westcoast Energy Inc. | XG-W005-13-2002 | 2002-03-20 | Casing Upgrade - 16" Boundary Pipeline | 85,000 |
| Foothills Pipe Lines Ltd. | XG-F006-14-2002 | 2002-03-27 | Interconnection to the TransCanada Westpath Expansion | 650,000 |
| Alliance Pipeline Ltd. | XG-A159-15-2002 | 2002-04-02 | Construction of Two Interconnections in the Fort Saskatchewan Area | 1,570,000 |
| Westcoast Energy Inc. | XG-W005-16-2002 | 2002-04-12 | Sulphur Loading and Unloading Facility Modifications - McMahan | 140,000 |
| Westcoast Energy Inc. | AO-1-XG-W005-22-2001 | 2002-04-19 | Revision to Order XG-W005-22-2001 | 0 |
| Alliance Pipeline Ltd. | XG-A159-18-2002 | 2002-05-01 | Relocation of West Whitecourt Meter Station | 400,000 |
| Westcoast Energy Inc. | XG-W005-19-2002 | 2002-05-01 | Construction of 3 Soil Storage Cells at the Existing Taylor Complex | 400,000 |
| Westcoast Energy Inc. | XG-W005-20-2002 | 2002-05-02 | Construction of Emergency Horns and an Office Building | 800,000 |
| Westcoast Energy Inc. | XG-W005-21-2002 | 2002-05-03 | Upgrade Compressor Stations CS-6A and CS-7 | 87,948,000 |
| Westcoast Energy Inc. | XG-W005-22-2002 | 2002-05-10 | Fort Nelson Plant Redesign | 20,000,000 |
| ExxonMobil Canada Ltd. | XG-E039-23-2002 | 2002-05-24 | Construction of Permanent Mono Ethylene Glycol Storage Facilities at Goldboro Gas Plant | 2,100,000 |
| TransCanada Pipelines Limited | XG-T001-24-2002 | 2002-05-28 | Appleby Line Lowering | 1,467,000 |
| Consumers' Gas (Canada) Ltd. | XG-C283-25-2002 | 2002-06-06 | Interconnections at Three Different Locations | 180,000 |
| TransCanada Pipelines Limited | XG-T001-26-2002 | 2002-06-10 | Installation of a Permanent Launcher at Sabrevois | 455,000 |
| TransCanada Pipelines Limited | XG-T054-27-2002 | 2002-06-13 | B.C. System Westpath Facilities Expansion | 48,300,000 |
| Foothills Pipe Lines Ltd. | XG-F006-28-2002 | 2002-06-17 | Interconnections to the TransCanada Westpath Expansion | 450,000 |
| TransCanada Pipelines Limited | XG-T001-29-2002 | 2002-06-19 | Kenora Sales Tap | 196,000 |
| Westcoast Energy Inc. | XG-W005-30-2002 | 2002-06-21 | Replacement and Repairs | 90,000 |
| TransCanada Pipelines Limited | XG-T001-31-2002 | 2002-06-25 | Environmental Sampling | 626,000 |
| TransCanada Pipelines Limited | XG-T001-32-2002 | 2002-06-25 | Contaminant Sampling and Delineation Program | 980,000 |
| Westcoast Energy Inc. | XG-W005-33-2002 | 2002-07-15 | Re-establish depth of cover at four sites on the 30" and 36" mainlines | 100,000 |
| TransCanada Pipelines Limited | XG-T001-34-2002 | 2002-07-18 | Modification of Plant 13B Compression Facility | 400,000 |
| Westcoast Energy Inc. | XG-W005-35-2002 | 2002-08-01 | Install Tie-in Facilities at CS-6A | 275,000 |

C2. Orders Issued During 2002 Approving the Construction of Gas Pipeline Facilities Not Exceeding 40 Kilometres in Length (continued)

| Applicant | Order Number | Date Issued | Description | Estimated Cost (\$) |
|--|---------------------|--------------------|--|----------------------------|
| TransCanada Pipelines Limited | XG-T001-36-2002 | 2002-08-02 | Containment and Infrastructure Upgrade Program | 2,600,000 |
| Westcoast Energy Inc. | XG-W005-37-2002 | 2002-08-07 | East July Lakes Pipeline Pigging | 450,000 |
| Westcoast Energy Inc. | XG-W005-38-2002 | 2002-08-07 | Fort Nelson Field Services Area Projects | 330,000 |
| TransCanada Pipelines Limited | XG-T001-39-2002 | 2002-08-09 | Assiniboine River Sales Tap | 190,000 |
| Westcoast Energy Inc. | XG-W005-40-2002 | 2002-08-09 | Maxhamish Pipeline Modifications | 326,500 |
| Trans Mountain Pipe Line Company Ltd. | XG-T004-41-2002 | 2002-08-12 | Kamloops Station Containment, Phase 3 | 850,000 |
| Westcoast Energy Inc. | XG-W005-42-2002 | 2002-08-14 | Fort Nelson Looping Project | 8,040,000 |
| Westcoast Energy Inc. | XG-W005-43-2002 | 2002-08-23 | Replacement of Two Groundbeds and Construction of Four Storage Buildings | 370,000 |
| TransCanada Pipelines Limited | XG-T001-44-2002 | 2002-08-29 | Decommissioning of Compressor Station Plants 17A, 105B and 105C | 2,723,000 |
| Westcoast Energy Inc. | XG-W005-45-2002 | 2002-08-30 | Cathodic Protection Upgrading - Transmission South | 104,000 |
| TransCanada Pipelines Limited | XG-T054-46-2002 | 2002-09-03 | Crowsnest Valve Shelter | 19,000 |
| Alliance Pipeline Ltd. | XG-A159-47-2002 | 2002-09-11 | Construct 6.3 km Pipeline and Associated Facilities | 7,252,000 |
| TransCanada Pipelines Limited | XG-T001-48-2002 | 2002-09-17 | Corrosion Remedial Construction Program in Saskatchewan | 1,236,000 |
| Alliance Pipeline Ltd. | XG-A159-49-2002 | 2002-09-18 | Kaybob North Lateral Project | 20,100,000 |
| BP Canada Energy Company Limited | XG-A017-50-2002 | 2002-09-20 | Aurora Pipeline - Riser Installation | 420,000 |
| Gazoduc Trans Québec & Maritimes Inc. | XG-T028-51-2002 | 2002-10-10 | Work at Saint-Maurice River | 150,000 |
| Alliance Pipeline Ltd. | XG-A159-52-2002 | 2002-10-10 | Steelman Interconnection and Meter Station | 875,000 |
| TransCanada Pipelines Limited | XG-T001-53-2002 | 2002-10-17 | Enhancement of a SCADA Advisory System | 197,300 |
| Pioneer Natural Resources Canada Inc. | XG-P177-54-2002 | 2002-10-17 | South Chinchaga Tie-in Installation | 42,000 |
| TransCanada Pipelines Limited | XG-T001-55-2002 | 2002-10-21 | Corrosion Remedial Construction Program in Ontario and Quebec | 2,643,000 |
| TransCanada Pipelines Limited | XG-T001-56-2002 | 2002-10-22 | Corrosion Remedial Construction Program at TransCanada Compressor Stations | 435,000 |
| Alliance Pipeline Ltd. | XG-A159-57-2002 | 2002-10-30 | Additional Compression at AB47 and AB48 Receipt Points | 4,213,300 |
| Huntingdon International Pipeline Corporation | XG-H037-58-2002 | 2002-11-12 | Osoyoos Interconnect Facility | 9,333 |
| TransCanada Pipelines Limited | XG-T054-59-2002 | 2002-11-18 | Moyie Water Treatment System and Repair | 235,000 |
| Maritimes & Northeast Pipeline | XG-M124-60-2002 | 2002-11-19 | Facilities from Goldboro to St. Stephen Export Point | 190,800,000 |
| Gazoduc Trans Québec & Maritimes Inc. | XG-T028-61-2002 | 2002-11-21 | Construction of Anode Beds at Stukely-Sud | 60,000 |
| Duke Energy Gas Transmission Canada | XG-W005-62-2002 | 2002-11-21 | Construction of a New Flare Site and Access Road to the Beg Pipeline | 525,000 |
| EnCana Oil & Gas Ltd. Pipeline | XG-E121-63-2002 | 2002-11-27 | Construction of a Hot Tap | 30,000 |
| Westcoast Energy Inc. | XG-W005-64-2002 | 2002-11-29 | Replacement of 30" Fort Nelson Mainline | 5,100,000 |
| Foothills Pipe Lines Ltd. | XG-F006-65-2002 | 2002-12-06 | Backup Sales Tap Installation, Zone 7 | 61,000 |

C3. Licences and Long-Term Orders to Export Natural Gas as of 31 December 2002

| Exporter | Licence or Order Number | Point of Export | Term of Licence or Order | | Maximum Volumes | | | |
|---|-------------------------|--|--|------------------|---|--|--|---------|
| | | | From | To | Daily (10 ⁶ m ³) | Annual (10 ⁶ m ³) | Term (10 ⁶ m ³) | |
| AG-Energy L.P. | GL-182 | Iroquois, Ont. | 1993-11-01 | 2008-10-31 | 467.0 | 170.6 | 2 587.0 | |
| | | | 2008-11-01 | 2008-12-31 | 467.0 | 28.5 | | |
| Alberta Northeast Gas, Limited and AEC Oil and Gas Company | GL-105 | Iroquois, Ont. | 1992-11-01 | 2006-10-31 | 533.0 | 194.7 | 2 714.0 | |
| | | | 2006-11-01 | 2007-03-31 | 533.0 | 80.5 | | |
| Alberta Northeast Gas, Limited and ATCOR Ltd. | GL-104 | Iroquois, Ont. | 1992-11-01 | 2006-10-31 | 1 057.0 | 386.1 | 5 428.0 | |
| | | | 2006-11-01 | 2007-03-31 | 1 057.0 | 159.7 | | |
| Alberta Northeast Gas, Limited and ProGas Limited | GL-103 | Iroquois, Ont. | 1992-11-01 | 2006-10-31 | 1 870.0 | 683.0 | 10 236.0 | |
| | | | 2006-11-01 | 2007-03-31 | 1 870.0 | 282.6 | | |
| Alberta Northeast Gas, Limited and Mirant Canada Gas Markets Ltd. | GL-102 | Iroquois & Niagara Falls, Ont. combined maximum | 1992-11-01 | 2006-10-31 | 7 790.3 | 2 845.3 | 42 646.0 | |
| | | | 2006-11-01 | 2007-02-28 | 7 790.3 | 935.5 | | |
| | | | Maximum permitted at Iroquois, Ont. as part of combined Iroquois/Niagara Falls volume | 1992-11-01 | 2006-10-31 | 7 507.0 | 2 741.9 | — |
| | | | 2006-11-01 | 2007-02-28 | 7 507.0 | 901.5 | | |
| | | | Maximum permitted at Niagara Falls, Ont. as part of combined Iroquois/Niagara Falls volume | 1991-11-01 | 2006-10-31 | 283.3 | 103.4 | — |
| | | | 2006-11-01 | 2007-02-28 | 283.3 | 34.0 | | |
| Amoco Canada Resources Limited and Consolidated Edison Company | GL-127 | Niagara Falls, Ont. | 1992-11-01 | 2005-10-31 | 873.0 | 319.0 | 4 778.0 | |
| Androscoffin Energy LLC | GL-283 | Cornwall, Ont. | 1999-11-01 | 2009-10-31 | 1 242.0 | 453.4 | 4 534.0 | |
| | | East Hereford, Que. | 1999-11-01 | 2009-10-31 | 1 242.0 | 453.4 | | |
| | | Niagara Falls, Ont. | 1999-11-01 | 2009-10-31 | 1 242.0 | 453.4 | | |
| Avista Corporation | GL-204 | Kingsgate, B.C. | 2002-11-01 | 2003-10-31 | 1 258.0 | 305.0 | 3 357.0 | |
| Bearpaw Energy Inc. | GO-59-96 | North Portal, Sask. | 1999-03-26 | 2009-03-01 | 30.0 | N/S | N/S | |
| BP Canada Energy Company | GL-112 | Huntingdon, B.C. | 1989-11-01 | 2004-10-31 | 704.0 | 257.0 | 3 856.0 | |
| Brooklyn Navy Yard Cogen Partners, L.P. | GL-232 | Iroquois, Ont. | 1996-10-01 | 2011-09-30 | 750.0 | 274.0 | 5 480.0 | |
| | | | 2011-10-01 | 2016-09-30 | | | | |
| Burlington Resources Canada Ltd. | GL-118 | Emerson, Man. | 2000-04-01 | 2004-10-31 | 424.9 | 155.1 | 2 248.9 | |
| | | | GL-205 | Kingsgate, B.C. | 2000-04-01 | 2003-09-30 | 445.1 | 126.6 |
| CanWest Gas Supply Inc. | GL-189 | Huntingdon, B.C. | 1993-11-01 | 2003-11-01 | 2 606.0 | 952.0 | 11 415.0 | |
| | | | GL-218 | Huntingdon, B.C. | 1993-11-01 | 2008-10-31 | 273.2 | 100.0 |
| Chevron Canada Resources Limited | GL-250 | Kingsgate, B.C. | 1996-11-01 | 2010-10-31 | 585.8 | 214.4 | 3 210.0 | |
| | | | 2010-11-01 | 2012-08-30 | 585.8 | 142.9 | | |
| Chinook Pipeline Company | GOL-4-00 ^(a) | Emerson, Man. | 2000-11-03 | 2010-11-02 | N/S | N/S | N/S | |
| | | Monchy, Sask. | 2000-11-03 | 2010-11-02 | N/S | N/S | N/S | |
| | | Niagara Falls, Ont. | 2000-11-03 | 2010-11-02 | N/S | N/S | N/S | |
| CoEnergy Trading Company | GL-276 | East Hereford, Que. Emerson, Man. combined maximum | 1999-03-10 | 2009-03-09 | 2 266.2 | 827.2 | 8 272.0 | |
| | | | 2 266.2 | 827.2 | | | | |
| Coral Energy Canada Inc. | GOL-5-98 ^(b) | Emerson, Man. | 1998-11-01 | 2008-10-31 | N/S | N/S | N/S | |
| | | GL-134 | Niagara Falls, Ont. | 1990-11-01 | 2010-10-31 | 450.0 | 145.0 | 2 755.0 |
| | | | | 2010-11-01 | 2011-08-31 | 450.0 | 95.9 | |
| | GL-180 | Monchy, Sask. | 2001-11-01 | 2004-11-01 | 278.0 | 83.1 | 1 014.0 | |
| | GL-181 | Monchy, Sask. | 1992-11-01 | 2006-10-31 | 580.0 | 212.0 | 3 181.0 | |
| | | | 2006-11-01 | 2009-11-01 | 580.0 | 173.4 | | |
| Coral Resources Canada ULC | GL-120 | Emerson, Man. | 2001-12-20 | 2004-10-31 | 424.9 | 155.1 | 2 250.0 | |

**C3. Licences and Long-Term Orders to Export Natural Gas as of 31 December 2002
(continued)**

| Exporter | Licence or Order Number | Point of Export | Term of Licence or Order | | Maximum Volumes | | |
|--|--------------------------|--|--------------------------|--------------------------|---|--|--|
| | | | From | To | Daily (10 ⁶ m ³) | Annual (10 ⁶ m ³) | Term (10 ⁶ m ³) |
| Dartmouth Power Associates Limited Partnership | GL-164 | Iroquois, Ont. | 1992-11-01 | 2007-10-31 | 400.9 | 146.4 | 2 196.0 |
| Direct Energy Marketing Limited | GL-188 | East Hereford, Que. | 1998-09-30 | 2006-10-31 | 171.0 | 62.4 | 936.2 |
| Duke Energy Marketing Canada Ltd. | GL-147 | Huntingdon, B.C. | 1991-01-24 | 2003-10-31 | 409.4 | 149.4 | 1 843.0 |
| Encana Corporation (Previously PanCanadian Energy Corporation) | GL-284 | Monchy, Sask. | 2002-09-24 | 2008-10-31 | 4 277.5 | 1 562.4 | 15 624.0 |
| | GL-285 | Kingsgate, BC | 2002-09-24 | 2008-10-31 | 2 727.0 | 996.2 | 9 962.0 |
| ENCO Gas, Ltd. | GL-203 | Huntingdon, B.C. | 1994-11-01 | 2008-10-31 | 601.3 | 219.5 | 3 258.0 |
| Encogen Northwest, L.P. | GL-190 | Huntingdon, B.C. | 1993-11-01 | 2008-10-31 | 271.6 | 99.1 | 1 441.3 |
| Engage Energy Canada, L.P. | GL-225 | Huntingdon & Kingsgate, B.C. | 1994-11-01 | 2004-10-31 | 2 581.5 | 1 040.8 | 13 691.1 |
| | GL-226 | Huntingdon & Kingsgate, B.C. | 1994-11-01 | 2004-10-31 | 988.6 | 360.8 | 4 746.8 |
| | GL-227 | Huntingdon & Kingsgate, B.C. | 1994-11-01 | 2004-10-31 | 570.3 | 208.2 | 2 738.6 |
| | GL-282 | Emerson, Man. | 1998-11-08 | 2008-11-01 | 572.0 | 208.8 | 2 452.0 |
| | GOL-10-02 ^(c) | Iroquois, Ont. & Niagara Falls, Ont. | 2002-09-16 | 2010-09-16 | N/S | N/S | N/S |
| | GOL-11-02 ^(d) | Huntingdon & Kingsgate, B.C. | 2002-09-16 | 2010-09-16 | N/S | N/S | N/S |
| | GOL-12-02 ^(e) | Monchy, Sask. & St. Clair, Ont. | 2002-09-16 | 2010-09-16 | N/S | N/S | N/S |
| | GOL-13-02 ^(e) | Emerson, Man | 2002-09-16 | 2010-09-16 | N/S | N/S | N/S |
| | GOL-14-02 ^(f) | Cardston, Alta. | 2002-09-16 | 2010-09-16 | N/S | N/S | N/S |
| | GOL-9-93 ^(b) | St. Clair, Ont. | 1997-11-01 | 2008-03-31 | N/S | N/S | N/S |
| | GO-16-96 | Monchy, Sask. | 1996-03-07 | 2003-09-19 | 30.0 | N/S | N/S |
| Enron North America Corp. | GL-258 | Iroquois, Ont. | 1996-11-01 | 2006-10-31 | 57.8 | 21.1 | 479.1 |
| | GL-277 | Monchy, Sask. | 1998-11-01 | 2008-11-01 | 1 185.2 | 432.7 | 4 327.3 |
| | GL-278 | Emerson, Man. St. Clair, Ont. combined maximum | 1998-11-01 1998-11-01 | 2008-11-01 2008-11-01 | 901.0 901.0 | 329.7 329.7 | 3 296.6 |
| | GL-279 | Niagara Falls, Ont. | 1998-11-01 | 2008-11-01 | 256.4 | 93.6 | 936.0 |
| | GL-293 | St. Clair, Ont. | 1999-11-01 | 2009-10-31 | 566.0 | 206.8 | 2 068.0 |
| Forty Mile Gas Co-op Ltd. | GO-21-98 | Monchy, Sask. | 1998-05-01 | 2018-04-30 | N/S | N/S | N/S |
| Gaz Métropolitain, Inc. | GOL-14-93 ^(c) | St. Clair & Windsor, Ont. | 1993-12-01 | 2003-11-30 | N/S | N/S | N/S |
| | GOL-16-93 ^(e) | St. Clair & Windsor, Ont. | 1993-12-01 | 2003-11-30 | N/S | N/S | N/S |
| Husky Energy Marketing Inc. | GL-114 | Emerson, Man. | 1989-11-01 | 2006-10-31 | 424.9 | 155.1 | 2 556.6 |
| | GL-251 | Monchy, Sask. | 2001-04-06 | 2003-10-31 | 140.0 | 51.1 | 460.0 |
| | GL-252 | Niagara Falls, Ont. | 2001-04-06 | 2005-10-31 | 180.0 | 66.0 | 660.0 |
| | GL-253 | Niagara Falls, Ont. | 2001-04-06 | 2005-10-31 | 28.0 | 10.1 | 101.0 |
| | GL-255 | Niagara Falls, Ont. | 2001-04-06 | 2004-11-01 | 79.3 | 28.9 | 265.5 |
| | GL-292 | Niagara Falls, Ont. | 2001-04-06 | 2008-11-01 | 663.0 | 242.0 | 2421.0 |
| Imperial Oil Resources Ltd./ Boston Gas Company | GL-294 | St Stephen, N.B. | 1999-11-01 | 2007-03-31 | 1 205.0 | 440.0 | 3 262.0 |
| Indeck-Yerkes Limited Partnership | GL-215 | Niagara Falls, Ont. | 1998-10-23 | 2005-10-31 | 181.0 | 66.1 | 1 045.0 |
| Mead Corporation, The | GO-16-00 | Cornwall, Ont. & Cardston, Alta. | 2000-05-01 | 2004-12-31 | N/S | N/S | N/S |

**C3. Licences and Long-Term Orders to Export Natural Gas as of 31 December 2002
(continued)**

| Exporter | Licence or Order Number | Point of Export | Term of Licence or Order | | Maximum Volumes | | |
|--|--------------------------|--|--|--|---|--|--|
| | | | From | To | Daily (10 ⁶ m ³) | Annual (10 ⁶ m ³) | Term (10 ⁶ m ³) |
| Midland Cogeneration Venture Limited Partnership | GOL-9-96 ^(a) | St. Clair, Windsor, Sarnia & Blue Water, Ont. | 1996-12-18 | 2006-12-31 | N/S | N/S | N/S |
| Mirant Canada Gas Marketing Ltd. (Previously TransCanada Energy Limited) | GL-83 | Niagara Falls, Ont. | 2002-11-01 2003-01-06 | 2003-01-15 2004-01-15 | 2 620.3 2 620.3 | 199.1 959.0 | 16 371.0 |
| | GL-110 | Iroquois & Niagara Falls, Ont. | 2001-11-01 | 2012-10-31 | 708.2 | 258.5 | 5 443.2 |
| | GL-121 | Emerson, Man. | 2001-11-01 | 2003-10-31 | 424.9 | 155.1 | 2 326.5 |
| | GL-122 | Emerson, Man. | 2001-11-01 | 2004-10-31 | 424.9 | 155.1 | 2 326.5 |
| | GL-128 | Cornwall, Ont. | 2001-11-01 | 2005-10-31 | 331.0 | 121.3 | 1 820.0 |
| | GL-141 | Emerson, Man. | 2001-11-01 | 2005-10-31 | 424.9 | 155.1 | 2 326.5 |
| | GL-163 | Niagara Falls, Ont. | 2001-11-01 | 2007-10-31 | 283.0 | 103.7 | 1 552.0 |
| Mirant Canada Gas Marketing (Previously TransCanada Gas Marketing) | GL-172 | Philipsburg, Que. | 2002-05-23 | 2006-10-31 | 906.0 | 332.0 | 4 980.0 |
| Mirant Canada Gas Marketing Ltd. (Previously TransCanada Energy Limited) | GL-175 | Iroquois, Ont. | 2001-11-01 | 2005-10-31 | 1 445.0 | 529.0 | 7 910.0 |
| | GL-200 | Niagara Falls, Ont. | 2001-11-01 2008-11-01 | 2008-10-31 2009-01-31 | 509.0 509.0 | 186.6 47.0 | 2 800.0 |
| | GL-242 | Emerson, Man. | 2001-11-01 | 2003-10-31 | 2 533.0 | 927.0 | 8 811.5 |
| | GL-244 | Emerson, Man. | 2001-11-01 | 2003-10-31 | 752.0 | 275.0 | 2 613.9 |
| | GL-245 | Emerson, Man. | 2001-11-01 | 2003-10-31 | 337.0 | 86.7 | 824.1 |
| | GL-246 | Emerson, Man. | 2001-11-01 | 2003-10-31 | 210.0 | 76.8 | 730.0 |
| | GL-195 | Chippawa, Iroquois & Niagara Falls, Ont. & Napierville, Que. | 1993-11-01 | 2005-10-31 | 225.0 | 93.1 | 1 117.0 |
| New York State Electric & Gas Corporation | GL-220 | Chippawa, Ont. & Niagara Falls, Ont. | 1994-11-01 2003-11-01 1994-11-01 | 2003-10-31 2003-11-30 2003-08-18 | 283.3 283.3 | 103.5 8.5 | 1 035.0 |
| | GL-290 | Philipsburg, Que. | 1998-11-01 | 2008-10-31 | 61.2 | 22.3 | 223.4 |
| Nexen Canada Ltd./ Rock-Tenn Company, Mill Ocean Energy, Inc. | GOL-12-95 ^(b) | Loomis & Willow Creek, Sask. & Emerson, Man. | 1998-08-26 | 2008-12-31 | N/S | N/S | N/S |
| Pan-Alberta Gas Ltd. | GL-106 | Kingsgate, B.C. | 1988-11-01 | 2003-10-31 | 7 478.6 | 2 488.3 | 37 324.5 |
| Pawtucket Power Associates Limited Partnership | GL-149 | Iroquois, Ont. | 1991-11-01 | 2006-10-31 | 362.5 | 132.4 | 1 986.0 |
| Petro-Canada Oil and Gas ProGas Limited | GL-186 | Huntingdon, B.C. | 1995-11-01 | 2011-10-31 | 409.6 | 25.0 | 2 580.9 |
| | GL-101 | Niagara Falls, Ont. | 1989-11-01 | 2009-10-31 | 1 420.0 | 517.0 | 10 340.0 |
| | GL-109 | Iroquois & Niagara Falls, Ont. | 1991-11-01 | 2011-10-31 | 708.2 | 258.5 | 5 170.0 |
| | GL-129 | Niagara Falls, Ont. | 1992-11-01 2006-11-01 | 2006-10-31 2013-10-31 | 2 521.1 2 039.6 | 920.2 744.4 | 19 015.3 |
| | GL-161 | Iroquois, Ont. | 1992-11-01 2010-11-01 | 2010-10-31 2011-04-30 | 708.2 708.2 | 258.4 128.2 | 4 800.4 |
| | GL-178 | Niagara Falls, Ont. | 1992-11-01 | 2007-10-31 | 339.9 | 124.1 | 1 861.1 |
| | GL-231 | Emerson, Man. | 1993-11-01 | 2003-10-31 | 2 407.9 | 879.0 | 8 651.9 |
| | GL-234 | Emerson, Man. | 1994-11-01 | 2003-10-31 | 84.8 | 31.0 | 294.3 |
| | GL-236 | Emerson, Man. | 1994-11-01 | 2003-10-31 | 304.0 | 111.0 | 1 054.6 |
| | GL-237 | Emerson, Man. | 1994-11-01 | 2003-10-31 | 95.9 | 35.0 | 332.8 |

**C3. Licences and Long-Term Orders to Export Natural Gas as of 31 December 2002
(continued)**

| Exporter | Licence or Order Number | Point of Export | Term of Licence or Order | | Maximum Volumes | | |
|--|----------------------------|--|--------------------------|--------------------------|---|--|--|
| | | | From | To | Daily (10 ⁶ m ³) | Annual (10 ⁶ m ³) | Term (10 ⁶ m ³) |
| | GL-238 | Emerson, Man. | 1994-11-01 | 2003-10-31 | 313.8 | 114.5 | 1 088.5 |
| | GL-270 | Emerson, Man. | 1997-05-01 | 2012-10-31 | 225.0 | 41.4 | 2 071.3 |
| | GL-271 | Emerson, Man. | 1997-05-01 | 2012-10-31 | 67.0 | 24.4 | 378.3 |
| | GL-272 | Iroquois, Ont. | 1997-11-01 | 2007-10-31 | 458.0 | 167.2 | 1 672.0 |
| | GL-286 | Emerson, Man. | 1998-11-01 | 2008-10-31 | 849.6 | 310.3 | 620.6 |
| | GL-287 | Monchy, Sask. | 1998-11-01 | 2008-10-31 | 849.6 | 310.3 | 620.6 |
| | GL-288 | Kingsgate, B.C. | 1998-07-01 | 2007-03-01 | 222.3 | 26.7 | 703.4 |
| | GL-295 | Emerson, Man. | 1999-01-01 | 2009-10-31 | 171.4 | 62.6 | 626.0 |
| Progas Limited as agent for RDO Foods Co. | GO-15-01 | | 2001-05-05 | 2008-10-31 | 30.0 | N/S | N/S |
| Ranger Oil Limited | GL-280 | Niagara Falls, Ont. | 1997-11-01 | 2007-10-31 | 141.6 | 51.7 | 517.0 |
| Rochester Gas and Electric Corporation | GOL-12-92 ⁽ⁱ⁾ | Chippawa, Ont. | 1993-11-01 | 2008-10-31 | N/S | N/S | N/S |
| Rumford Power Associates LP | GOL-9-98 ⁽ⁱⁱ⁾ | East Hereford, Que. Niagara Falls & Iroquois Ont. | 2000-03-01 | 2025-02-28 | N/S | N/S | N/S |
| | GOL-10-98 ⁽ⁱⁱ⁾ | East Hereford, Que. Niagara Falls & Iroquois Ont. | 2000-03-01 | 2025-02-28 | N/S | N/S | N/S |
| Saranac Power Partners L.P. & Shell Canada Limited | GL-197 | Napierville, Que. | 1993-11-01 | 2008-10-31 | 1 445.0 | 529.0 | 7 125.0 |
| Selkirk Cogen Partners, L.P. | GL-157 | Iroquois & Niagara Falls, Ont. | 1999-09-16 2007-11-01 | 2007-10-31 2008-04-30 | 464.5 464.5 | 170.0 117.9 | 3 041.8 |
| Selkirk Cogen Partners, L.P. & Producers Market Ltd. | GL-192 | Iroquois, Ont. | 1994-11-01 | 2009-10-31 | 479.0 | 176.0 | 2 712.0 |
| Selkirk Cogen Partners, L.P. & Imperial Oil Resources Ltd. | GL-193 | Iroquois, Ont. | 1994-11-01 | 2009-10-31 | 538.2 | 196.6 | 3 031.0 |
| Selkirk Cogen Partners, L.P. & PanCanadian Petroleum Ltd. | GL-194 | Iroquois, Ont. | 1994-11-01 | 2009-10-31 | 538.2 | 196.6 | 3 031.0 |
| Sithe/Independence Power Partners, L.P. | GL-219 | Chippawa, Ont. | 1995-07-01 | 2004-10-31 | 805.0 | 294.0 | 2 940.0 |
| | GOL-13-92 ⁽ⁱ⁾ | Chippawa, Ont. | 1994-08-01 | 2014-12-31 | N/S | N/S | N/S |
| Talisman Energy Inc. | GL-265 | Huntingdon, B.C. | 1997-01-01 | 2016-12-31 | 74.7 | 27.3 | 545.5 |
| | GL-266 | Huntingdon, B.C. | 1997-01-01 | 2016-12-31 | 78.9 | 28.8 | 575.9 |
| TransCanada Pipelines Limited | GL-187 | Emerson, Man. | 1992-11-01 | 2005-10-31 | 2 785.0 | 875.0 | 12 035.0 |
| | GOL-2-91 ⁽ⁱⁱ⁾ | Emerson, Man. | 1991-11-01 | 2005-10-31 | N/S | N/S | N/S |
| TransCanada Energy Limited | GL-243 | Emerson, Man. | 2001-11-01 | 2003-10-31 | 776.0 | 283.0 | 2 689.5 |
| | GL-248 | Kingsgate, B.C. | 2001-11-01 | 2011-07-31 | 841.5 | 307.1 | 4 606.9 |
| | GL-249 | Kingsgate, B.C. | 2001-11-01 | 2011-07-31 | 420.7 | 153.5 | 2 303.2 |
| | GOL-3-92 ⁽ⁱ⁾ | Emerson, Man. | 1992-03-01 | 2012-02-29 | 10 000.0 | 3 650.0 | N/S |
| Union Gas Limited | GOL-15-93 ⁽ⁱⁱⁱ⁾ | Sprague, Man. | 1998-02-26 | 2018-11-30 | N/S | N/S | N/S |
| | GOL-5-02 ^(iv) | St. Clair, Windsor, Ont. Monchy, Sask. & Emerson, Man. | 2002-06-25 | 2007-06-24 | N/S | N/S | N/S |
| | GOL-6-02 ^(v) | St. Clair, Windsor, Sarnia & Blue Water, Ont. & Monchy Sask. | 2002-06-25 | 2007-06-24 | N/S | N/S | N/S |

C3. Licences and Long-Term Orders to Export Natural Gas as of 31 December 2002 (continued)

| Exporter | Licence or Order Number | Point of Export | Term of Licence or Order | | Maximum Volumes | | |
|-----------------------------|-------------------------|--------------------------------|--------------------------|------------|---|--|--|
| | | | From | To | Daily (10 ⁶ m ³) | Annual (10 ⁶ m ³) | Term (10 ⁶ m ³) |
| US Gen New England Inc. | GL-160 | Iroquois & Niagara Falls, Ont. | 1999-07-28 | 2008-11-01 | 1 700.0 | 621.0 | 9 308.0 |
| Vermont Gas Systems, Inc. | GL-289 | Philipsburg, Que. | 1998-11-01 | 2008-10-31 | 226.6 | 82.7 | 827.0 |
| Westcoast Gas Services Inc. | GL-282 | Emerson, Man. | 2001-11-01 | 2008-10-31 | 715.0 | 261.0 | 2 452.0 |

- a) This order authorizes the re-export of natural gas that was imported near Loomis, Sask.
b) This order authorizes an export of natural gas for subsequent import near St. Clair, Ont.
c) This order authorizes the re-export of natural gas that was imported near St. Clair and Windsor, Ont.
d) This order authorizes an export of natural gas for subsequent import near Huntingdon, B.C.
e) This order authorizes an export of natural gas for subsequent import near St. Clair and Windsor, Ont.
f) This order authorizes an export of natural gas for subsequent import near Willow Creek, Sask.
g) This order authorizes the re-export of natural gas that was imported near St. Clair, Windsor, Sarnia and Blue Water, Ont.
h) This order authorizes the re-export of natural gas that was imported near Willow Creek, Sask.
i) This order authorizes the re-export of natural gas that was imported near Sarnia, Ont.
j) This order authorizes the re-export of natural gas that was imported near Windsor and/or Sarnia, Ont.
k) This order authorizes an export of natural gas for subsequent import near Sarnia and Sault Ste. Marie, Ont.
l) This order authorizes an export of natural gas for subsequent import near St. Clair and Sarnia, Ont.
m) This order authorizes an export of natural gas for subsequent import near Rainy River, Ont.
n) This order authorizes an export of natural gas for subsequent import near St. Clair, Windsor, Sarnia and Blue Water, Ont.
o) This order authorizes the re-export of natural gas that was imported near St. Clair, Windsor, Sarnia, Sault Ste. Marie and Blue Water, Ont.
p) This order authorizes the re-export of natural gas that was imported near St. Clair, Ont.
N/S Not Specified.

C4. Licences and Long-Term Orders to Import Natural Gas as of 31 December 2002

| Importer | Licence or Order Number | Point of Export | Term of Licence or Order | | Maximum Volumes | | |
|--|--------------------------|---|--------------------------|------------|---|--|--|
| | | | From | To | Daily (10 ⁶ m ³) | Annual (10 ⁶ m ³) | Term (10 ⁶ m ³) |
| Chinook Pipeline Company | GOL-4-00 ^(a) | Loomis, Sask. | 2000-11-03 | 2010-11-02 | N/S | N/S | N/S |
| CoEnergy Trading Company | GOL-5-98 ^(b) | St. Clair, Ont. | 1998-11-01 | 2008-10-31 | N/S | N/S | N/S |
| Engage Energy Canada, L.P. | GOL-10-02 ^(c) | Windsor & St. Clair, Ont. | 2002-09-16 | 2010-09-16 | N/S | N/S | N/S |
| | GOL-11-02 ^(d) | Huntingdon, B.C. | 2002-09-16 | 2010-09-16 | N/S | N/S | N/S |
| | GOL-12-02 ^(e) | Windsor & St. Clair, Ont. | 2002-09-16 | 2010-09-16 | N/S | N/S | N/S |
| | GOL-13-02 ^(b) | Windsor & St. Clair, Ont. | 2002-09-16 | 2010-09-16 | N/S | N/S | N/S |
| | GOL-14-02 ^(f) | Willow Creek, Sask. | 2002-09-16 | 2010-09-16 | N/S | N/S | N/S |
| | GOL-9-93 ^(g) | St. Clair, Ont. | 1997-01-01 | 2008-03-31 | N/S | N/S | N/S |
| Gaz Métropolitain, Inc. | GOL-14-93 ^(h) | St. Clair & Windsor, Ont. | 1993-12-01 | 2003-11-30 | N/S | N/S | N/S |
| | GOL-16-93 ⁽ⁱ⁾ | Windsor & St. Clair, Ont. | 1993-12-01 | 2003-11-30 | N/S | N/S | N/S |
| Midland Cogeneration Venture Limited Partnership | GOL-9-96 ^(j) | St. Clair, Windsor, Sarnia & Blue Water, Ont. | 1996-12-18 | 2006-12-31 | N/S | N/S | N/S |
| Ocean Energy, Inc. | GOL-12-95 ^(k) | Willow Creek, SK | 1998-08-26 | 2008-12-31 | N/S | N/S | N/S |
| Rochester Gas and Electric Corporation | GOL-12-92 ^(l) | Sarnia, Ont. | 1993-11-01 | 2008-10-31 | N/S | N/S | N/S |
| Sithe/Independence Power Partners, L.P. | GOL-13-92 ^(m) | Sarnia & Windsor, Ont. | 1993-02-01 | 2014-12-31 | N/S | N/S | N/S |
| TransCanada Energy Limited | GOL-3-92 ^(b) | Sarnia & St. Clair, Ont. | 1992-03-01 | 2012-02-29 | 10000.0 | 3650.0 | N/S |
| TransCanada Pipelines Limited | GOL-2-91 ⁽ⁿ⁾ | Sarnia & Sault Ste. Marie, Ont. | 1991-11-01 | 2005-10-31 | N/S | N/S | N/S |

C4. Licences and Long-Term Orders to Import Natural Gas as of 31 December 2002 (continued)

| Importer | Licence or Order Number | Point of Export | Term of Licence or Order | | Maximum Volumes | | |
|-------------------|--------------------------|---|--------------------------|------------|---|--|--|
| | | | From | To | Daily (10 ⁶ m ³) | Annual (10 ⁶ m ³) | Term (10 ⁶ m ³) |
| Union Gas Limited | GOL-15-93 ^(m) | Rainy River, Ont. | 1998-02-26 | 2018-11-30 | N/S | N/S | N/S |
| | GOL-5-02 ⁽ⁿ⁾ | St. Clair, Windsor, Sarnia, Sault Ste. Marie & Blue Water, Ont. | 2002-06-25 | 2007-06-24 | N/S | N/S | N/S |
| | GOL-6-02 ^(o) | Windsor, Sarnia, St. Clair & Blue Water, Ont. | 2002-06-25 | 2007-06-24 | N/S | N/S | N/S |

- a) This order authorizes an import of natural gas for subsequent export near, Emerson, Man. or Niagara Falls, Ont. or Monchy, Sask.
b) This order authorizes the re-import of natural gas that was exported near Emerson, Man.
c) This order authorizes an import of natural gas for subsequent export near Iroquois and/or Niagara Falls, Ont.
d) This order authorizes the re-import of natural gas that was exported near Kingsgate or Huntingdon, B.C.
e) This order authorizes the re-import of natural gas that was exported near Monchy, Sask. and/or St. Clair, Ont.
f) This order authorizes the re-import of natural gas that was exported near Cardston, Alta.
g) This order authorizes the re-import of natural gas that was exported near St. Clair, Ont.
h) This order authorizes an import of natural gas for subsequent export near St. Clair and/or Windsor, Ont.
i) This order authorizes the re-import of natural gas that was exported near St. Clair and/or Windsor, Ont.
j) This order authorizes an import of natural gas for subsequent export near St. Clair, Windsor, Sarnia and/or Blue Water, Ont.
k) This order authorizes an import of natural gas for subsequent export near Emerson, Man.
l) This order authorizes an import of natural gas for subsequent export near Chippawa, Ont.
m) This order authorizes the re-import of natural gas that was exported near Sprague, Man.
n) This order authorizes the re-import of natural gas that was exported near St. Clair, Windsor, Ont., Monchy, Sask. and/or Emerson, Man.
o) This order authorizes an import of natural gas for subsequent export near Monchy, Sask. and/or St. Clair, Windsor, Sarnia and/or Blue Water, Ont.
N/S Not Specified.

C5. Natural Gas Exports by Export Point - 1998-2002 (million cubic metres)

| Export Point | 1998 | 1999 | 2000 | 2001 | 2002 ^(a) |
|---------------|---------------|---------------|----------------|----------------|---------------------|
| Huntingdon | 11 979 | 11 379 | 10 090 | 9 172 | 9 298 |
| Kingsgate | 24 187 | 22 835 | 23 588 | 22 231 | 19 527 |
| Monchy | 15 815 | 21 912 | 22 218 | 21 151 | 21 478 |
| Elmore | — | — | 2 059 | 14 998 | 15 739 |
| Emerson | 13 737 | 14 345 | 13 902 | 11 080 | 10 865 |
| Niagara Falls | 8 637 | 10 234 | 11 973 | 9 297 | 9 101 |
| Iroquois | 9 006 | 10 121 | 10 280 | 9 068 | 9 033 |
| St. Stephen | — | — | 3 305 | 4 451 | 4 011 |
| Other | 4 778 | 4 714 | 4 299 | 4 845 | 6 247 |
| Total | 88 139 | 95 540 | 101 714 | 106 293 | 105 300 |

- a) Estimate.

C6. Total Net Exports of Propane and Butanes, 2001 - 2002

(cubic metres)

| Exporter | Propane | | Butanes | |
|---|------------------|---------------------|------------------|---------------------|
| | 2001 Actual | 2002 Preliminary | 2001 Actual | 2002 Preliminary |
| Aux Sable Liquid Products LP | 0 | 49 634 | N/A | N/A |
| BP Canada Energy Company | 3 214 857 | 3 010 273 | 1 041 367 | 1 041 455 |
| Burnwell Gas of Canada, Ltd. | 137 555 | 138 771 | N/A | N/A |
| Canada Imperial Oil Limited | 426 283 | 476 913 | 25 494 | 18 482 |
| CANPET Energy Group Inc. | 211 665 | 0 | 7 925 | 0 |
| Canadian Enterprise Gas Products Ltd. | 113 761 | 128 636 | 0 | 160 049 |
| Genex | 0 | 78 279 | N/A | N/A |
| Centennial Gas Liquids, L.L.C. | 6 323 | 13 104 | 3 114 | 14 632 |
| Chevron Standard Ltd. | 27 014 | 0 | N/A | N/A |
| Coast Energy Canada Inc. | 21 902 | 9 236 | 599 | 0 |
| Conoco Canada Limited | 445 775 | 463 239 | 206 722 | 232 367 |
| Consumers' Co-operative Refineries Limited | 104 | 0 | 0 | 0 |
| Country Energy, LLC | 75 379 | 0 | N/A | N/A |
| Dynegy Midstream Services, L.P. | 107 355 | 76 034 | 17 950 | 13 224 |
| Elbow River Resources Ltd. | 64 404 | 68 616 | 98 156 | 80 554 |
| ETI Energy Transportation Inc. | 18 807 | 0 | 0 | 0 |
| ExxonMobil Oil Canada | 11 705 | 0 | 0 | 0 |
| Factor Gas Liquids Inc. | 55 775 | 34 031 | 30 386 | 28 257 |
| Ferrell North America | 153 291 | 105 970 | N/A | N/A |
| Foster Energy | 4 705 | 8 542 | 0 | 0 |
| Gas Supply Resources, Inc. | 633 626 | 576 110 | 67 343 | 60 614 |
| Great Western Resources Inc. | 4 545 | 0 | 0 | 0 |
| Irving Oil Limited | 188 827 | 419 605 | 0 | 0 |
| KeySpan Energy Canada Inc. | 116 164 | 169 835 | 0 | 0 |
| Kinetic Resources (LPG) | 528 547 | 583 207 | 154 198 | 175 261 |
| Link Petroleum Services Ltd. | 6 441 | 12 284 | 0 | 204 |
| M-P Energy | 148 191 | 199 021 | 0 | 0 |
| Marathon Ashland Petroleum LLC | N/A | N/A | 0 | 19 254 |
| NGL Supply Co. Ltd. | 344 932 | 320 523 | 126 585 | 141 049 |
| NGL Supply, Inc. | 0 | 23 433 | N/A | N/A |
| Northern Petro NGL Marketing | 0 | 260 | 0 | 706 |
| Petro Canada (U.S.A) Inc. | 107 636 | 113 628 | N/A | 8 071 |
| Petrogas Marketing Ltd. | 99 578 | 92 702 | 12 850 | 25 618 |
| Pétromont, société en commandite | 23 696 | 10 264 | 0 | 0 |
| Plains Marketing Canada L.P. | 0 | 312 820 | 6 200 | 1 616 |
| Propane Resources | 0 | 28 142 | N/A | N/A |
| Quadra Energy Trading Ltd. | 69 198 | 122 348 | 17 914 | 29 275 |
| Resource Energy Marketing Ltd. | 54 927 | 85 685 | 1 196 | 0 |
| Rocky Mountain Fuels Wholesale | 0 | 2 578 | N/A | N/A |
| Shell Canada Limited | 210 132 | 204 317 | 123 674 | 181 382 |
| Stittco Energy Limited | 18 112 | 15 576 | N/A | N/A |
| Suncor Energy Products Inc. | 102 200 | 110 000 | 55 200 | 42 000 |
| Texaco Natural Gas Liquids | 25 621 | 8 682 | 219 001 | 68 146 |
| Triangle Three Service Ltd. | 1 450 | 1 022 | N/A | N/A |
| Western Gas Liquids Canada | 7 778 | 12 070 | 15 225 | 16 426 |
| Williams Energy (Canada), Inc. | 72 307 | 95 545 | 0 | 0 |
| Williams Energy Marketing & Trading Company | 411 759 | 757 611 | 13 808 | 35 199 |
| Total | 8 272 327 | 8 938 546 | 2 244 907 | 2 393 841 |

N/A: not applicable.

D1. Financial Information - Group 1 Oil Pipeline Companies with Multi-Year Incentive Toll Agreements

| 2002 | Enbridge Pipelines Inc. | Trans Mountain Pipe Line Company Ltd. ^(a) | Trans-Northern Pipelines Inc. ⁽ⁱ⁾ |
|--|----------------------------|---|---|
| Operations (\$000) | | | |
| Revenues | 576,423 | | 29,609 |
| Expenses | | | |
| Fuel & Power | 65,405 | | 4,052 |
| Depreciation | 105,490 | | 3,234 |
| Operating & Maintenance | 155,632 | | 14,789 ^(g) |
| Other (including taxes) | 126,216 ^(a) | | 2,961 |
| Net Income | 123,680 ^(b) | | 4,573 |
| Throughput Statistics | | | |
| Throughput (m ³ /day) | 293,900 | | 29,217 |
| Throughput-Km (000 m ³ *km) | 91,042,400 | | 1,466,331 |
| Performance Statistics | | | |
| Average Revenue (\$/m ³) | 5.37 | | 2.78 |
| Revenue per m ³ - km (\$) | 0.006 | | 0.020 |
| Expenses per m ³ - km (\$) | 0.002 ^(c) | | 0.010 |
| Net Income over/(under) Earnings Threshold (\$000) | 5,155 | | 1,914 |
| Negotiated Incentives (\$000) | 4,261 | | 1,563 ^(h) |
| Other Adjustments (\$000) | 103,267 ^(d) | | 1,628 ⁽ⁱ⁾ |

a) Includes: Interest Expense, Investment and Other Income, and Income Taxes.

b) Net Income after Shipper Sharing.

c) Sum of Fuel & Power and O&M expenses, divided by Throughput-Km statistics.

d) Sum of current year tolling revenue deferral accounts.

e) Trans Mountain indicated that it is not able to comply with the Board's request for the indicated information. Among other things, it considers some of the information to be confidential.

f) Data based on preliminary actuals and estimates.

g) O & M is the sum of Maintenance, Transportation, Administration and Other.

h) Sum of shipper's share of all the incentives.

i) Sum of shipper's share of all adjustments under the incentive agreement.

D2. Financial Information - Group 1 Oil Pipeline Companies with Tolls Based on Cost of Service

| 2002 ^(a) | Cochin Pipe Lines Ltd. | Enbridge Pipelines (NW) Inc. |
|--|-------------------------------|---------------------------------|
| Revenue Requirement (\$000) | | |
| Cost of Debt | 7,488 | 1 642 |
| Return on Equity | 4,535 | 8 544 |
| Fuel & Power | 3,857 | 499 |
| Depreciation | — | 8 634 |
| Wages & Benefits | 2,567 | 2 334 |
| Other Operating & Maintenance | 7,584 | 8 529 |
| Other | — | 31 |
| Income Taxes | 2,336 | 5 904 |
| Other Taxes | 1,748 | 339 |
| Total | 30,115 | 36 456 |
| Return on Common Equity (%) | | |
| Approved | not applicable ^(a) | 9.53 |
| Actual | 0.04 ^(a) | 9.53 |
| Utility Rate Base (\$000) at 31 December 2002 | | |
| Net Plant in Service | 107,203 | 153 221 |
| Working Capital | 2,605 | 947 |
| Other | 0 | 4 975 |
| Total | 109,808 | 159 143 |
| Capitalization of Rate Base (\$000) | | |
| Debt | 0 | 53 968 |
| Deferred Taxes | 0 | 19 567 |
| Common Equity | 109,808 | 89 876 |
| Total | 109,808 | 163 411 |
| Annual Throughput (10³m³) | 4,165 | 1 632 |

a) Return based on a semi-depreciated rate base, pursuant to Board Order RH-5-80.

D3. Financial Information - Group 1 Gas Pipeline Companies

| 2002 ^(a) | TransCanada, TransCanada's B.C. System ^(a) | Foothills Pipe Lines Ltd. | TransCanada PipeLines Limited | Trans Québec & Maritimes Inc. | Westcoast Energy Inc. ^(b) | Maritimes & Northeast Pipelines ^(b) | Alliance Pipeline ^(a) |
|--|---|---------------------------------|-------------------------------------|--|--|--|-------------------------------------|
| Revenue Requirement (\$000) | | | | | | | |
| Cost of Debt | 10,486 | 30,595 | 543,030 | 23,235 | — | 33,229 | 103,519 |
| Return on Equity | 5,801 | 22,300 | 278,613 | 14,816 | — | 29,345 | 91,073 |
| Preferred Dividends | 0 | 0 | 0 | 0 | — | 0 | 0 |
| Fuel & Power | 3,402 | 10,474 | 53,427 | 1,808 | — | 0 | 0 ^(c) |
| Depreciation | 11,071 | 43,707 | 362,274 | 21,896 | — | 37,698 | 96,102 |
| Wages & Benefits | 6,249 | 5,747 | 73,201 | 6,797 | — | 4,400 | 0 |
| Other Operating & Maintenance | 13,322 | 26,232 | 136,631 | 3,687 | — | 5,075 | 54,143 |
| Special Charges | 0 | 7,130 | 0 | 0 | — | 0 | 0 |
| Transmission by Others | 21,146 | — | 373,750 | 0 | — | 0 | 0 |
| NEB Cost Recovery | 3,228 | 2,423 | 7,728 | 434 | — | 586 | 2,213 |
| Other | 0 | 1,032 | (35,764) | 0 | — | 0 | (14,925) |
| Income Taxes | 521 | 937 | 153,765 | 10,914 | — | 0 | 8,938 |
| Other Taxes | 3,326 | 11,595 | 115,848 | 4,522 | — | 23,302 | 13,171 |
| Total | 78,552 | 162,172 | 2,062,503 | 88,109 | 617 | 133,635 | 354,235 |
| Return on Common Equity (%) | | | | | | | |
| Approved | 9.53 | 9.53 | 9.53 | 9.53 | not applicable | 13.00 | 11.30 |
| Actual | 9.53 | 9.53 | 9.95 | 9.80 | 14.64 | 11.90 | not applicable |
| Capitalization of Rate Base (\$000) on 31 December 2002 | | | | | | | |
| Debt | 168,848 | 528,745 | 5,878,125 | 346,083 | 1,439 | 676,884 | 1,778,638 |
| Unfunded Debt | 0 | 0 | 0 | 0 | 292 | 0 | 0 |
| Preferred | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Common Equity | 72,364 | 274,224 | 2,895,196 | 148,322 | 927 | 233,352 | — |
| Partnership Capital | — | — | — | — | — | — | 762,273 |
| IROR One Time Adjustment | 0 | 4,688 | 0 | 0 | 0 | 0 | 0 |
| Total | 241,212 | 807,657 | 8,773,321 | 494,405 | 2,658 | 910,236 | 2,540,911 |

a) Data may be based on preliminary estimates.

b) Tolls set by formula as per negotiated agreement where breakdown of revenue requirement is not relevant. Data for zones 1 to 4.

c) Fuel and Power and Wages & Benefits are included in Other Operating & Maintenance.

E1. Certificates and Permits Issued During 2002 for International Power Lines

| Applicant | Certificate No. | Issued | Comments |
|-------------------------------|------------------------|---------------|--|
| Manitoba Hydro Electric Board | EP-196 | 2002-03-05 | Authorization to construct and operate an international power line between Glenboro station in Southern Manitoba and extending to the international boundary near Killarney, Manitoba. |
| Cedars Rapids Transmission | EC-III-24 | 200-09-02 | Authorization to reconstruct a section of its existing international power line. |

E2. Amending Orders Issued During 2002 for International Power Lines

| Applicant | Order No. | Issued | Comments |
|---|--------------------------|--------------------------|---|
| UtiliCorp Networks Canada (British Columbia) Ltd. | AO-1-EC-40 AO-2-EC-41 | 2002-01-10 2002-01-10 | Change of name from West Kootenay Power and Light Company Ltd. to UtiliCorp Networks Canada (British Columbia) Ltd. |
| Teck Cominco Metals Ltd. | AO-3-EC-III-1 | 2002-02-14 | Change of name from Cominco Ltd. to Teck Cominco Metals Ltd. |

E3. Revoking Orders Issued During 2002 for International Power Lines

No revoking orders were issued during 2002 relating to international power lines.

E4. Licences Issued During 2002 for the Export of Electricity

No licences were issued during 2002 relating to the export of electricity.

E5. Permits and Orders Issued During 2002 for the Export of Electricity

E5(a) Permits Issued

| Applicant | Permit No. | Class | Kilowatts | Annual | | Term | | Issued |
|--|------------|---------------|--------------------------|---------------------------|-------|------------|------------|------------|
| | | | | Megawatt | Hours | From | To | |
| Morgan Stanley Capital Group Inc. | EPE-180 | Interruptible | — | 779 000 | | 2002-07-12 | 2012-07-11 | 2002-07-12 |
| | EPE-181 | Firm | — | 1 557 000 | | 2002-07-12 | 2012-07-11 | 2002-07-12 |
| TransCanada Power Marketing Inc. | EPE-184 | Interruptible | — | 2 000 000 | | 2002-03-08 | 2012-03-07 | 2002-02-28 |
| | EPE-185 | Firm | 500 000 | 2 000 000 | | 2002-03-08 | 2012-03-07 | 2002-02-28 |
| EPCOR Merchant and Capital Inc. on behalf of EPCOR Merchant and Capital L.P. | EPE-186 | Interruptible | — | 10 541 000 | | 2002-03-14 | 2012-03-13 | 2002-03-14 |
| | EPE-187 | Firm | 750 000 | 6 588 000 | | 2002-03-14 | 2012-03-13 | 2002-03-14 |
| Aquila Capital and Trade Ltd. | EPE-188 | Interruptible | — | 10 000 000 | | 2002-03-21 | 2012-03-20 | 2002-03-21 |
| | EPE-189 | Firm | 1 142 000 | 10 000 000 | | 2002-03-21 | 2012-03-20 | 2002-03-21 |
| Aquila Canada Capital and Trade Corp. | EPE-190 | Interruptible | — | 10 000 000 | | 2002-03-21 | 2012-03-20 | 2002-03-21 |
| | EPE-191 | Firm | 1 142 000 | 10 000 000 | | 2002-03-21 | 2012-03-20 | 2002-03-21 |
| Nexen Marketing | EPE-194 | Interruptible | — | 5 000 000 | | 2002-03-14 | 2012-03-13 | 2002-03-14 |
| | EPE-195 | Firm | 1 000 000 | 5 000 000 | | 2002-03-14 | 2012-03-13 | 2002-03-14 |
| OGE Energy Resources, Inc. | EPE-197 | Interruptible | — | 250 000 | | 2002-04-05 | 2012-04-04 | 2002-03-27 |
| | EPE-198 | Firm | 200 000 | 1 500 000 | | 2002-04-05 | 2012-04-04 | 2002-03-27 |
| Direct Energy Marketing Limited | EPE-199 | Interruptible | — | 8 760 000 | | 2002-04-12 | 2012-04-11 | 2002-04-11 |
| | EPE-200 | Firm | 1 000 000 | 8 760 000 | | 2002-04-12 | 2012-04-11 | 2002-04-11 |
| Reliant Energy Services | EPE-201 | Interruptible | — | 5 000 000 | | 2002-04-12 | 2012-04-11 | 2002-04-11 |
| | EPE-202 | Firm | 1 000 000 | 5 000 000 | | 2002-04-12 | 2012-04-11 | 2002-04-11 |
| Cargill-Alliant Energy Canada, Inc. the general partner of Cargill-Alliant Energy Canada, LP | EPE-203 | Interruptible | — | 10 000 000 | | 2002-05-02 | 2012-05-01 | 2002-05-02 |
| | EPE-204 | Firm | 1 000 000 | 8 760 000 | | 2002-05-02 | 2012-05-01 | 2002-05-02 |
| The Detroit Edison Company | EPE-205 | Firm | 1 000 000 | 8 760 000 | | 2002-05-01 | 2012-05-01 | 2002-04-25 |
| DTE Energy Trading | EPE-206 | Firm | 2 000 000 | 10 000 000 | | 2002-05-01 | 2012-05-01 | 2002-04-25 |
| Manitoba Hydro-Electric Board | EPE-207 | Firm | 100 000 | 878 000 | | 2002-06-03 | 2007-05-31 | 2002-05-30 |
| Williams Energy Marketing & Trading Canada, Inc. | EPE-208 | Interruptible | — | 4 000 000 | | 2002-05-09 | 2012-05-08 | 2002-05-09 |
| | EPE-209 | Firm | 500 000 | 4 000 000 | | 2002-05-09 | 2012-05-08 | 2002-05-09 |
| Dynegy Power Marketing, Inc. | EPE-210 | Interruptible | — | 1 200 000 | | 2002-05-16 | 2012-05-15 | 2002-05-16 |
| | EPE-211 | Firm | 200 000 | 1 200 000 | | 2002-05-16 | 2012-05-15 | 2002-05-16 |
| Conectiv Energy Supply Inc. | EPE-212 | Interruptible | — | 5 000 000 | | 2002-04-25 | 2012-04-24 | 2002-04-25 |
| | EPE-213 | Firm | 1 000 000 | 5 000 000 | | 2002-04-25 | 2012-04-24 | 2002-04-25 |
| Exelon Generating Company, LLC | EPE-214 | Interruptible | — | 1 000 000 | | 2002-06-19 | 2012-06-18 | 2002-06-19 |
| | EPE-215 | Firm | 500 000 | 4 380 000 | | 2002-06-19 | 2012-06-18 | 2002-06-19 |
| Emera Energy Inc. | EPE-216 | Interruptible | 1 000 000 ^(a) | 4 800 000 ^(a) | | 2002-09-17 | 2012-09-16 | 2002-09-17 |
| | EPE-217 | Firm | 1 000 000 | 4 800 000 | | 2002-09-17 | 2012-09-16 | 2002-09-17 |
| Consumers Energy Company | EPE-218 | Interruptible | 3 000 000 ^(b) | 24 000 000 ^(b) | | 2002-09-17 | 2012-09-16 | 2002-09-17 |
| | EPE-219 | Firm | 2 000 000 | 16 000 000 | | 2002-09-17 | 2012-09-16 | 2002-09-17 |
| Split Rock Energy LLC | EPE-220 | Interruptible | — | 600 000 | | 2002-07-31 | 2012-07-30 | 2002-07-31 |
| | EPE-221 | Firm | 200 000 | 600 000 | | 2002-07-31 | 2012-07-30 | 2002-07-31 |
| Advantage Energy, Inc. | EPE-222 | Interruptible | 150 000 ^(c) | 900 000 ^(c) | | 2002-09-10 | 2012-09-09 | 2002-09-11 |
| | EPE-223 | Firm | 100 000 | 600 000 | | 2002-09-10 | 2012-09-09 | 2002-09-11 |
| Fraser Paper Inc. (Canada) | EPE-225 | Firm | 60 000 | 400 000 | | 2003-01-01 | 2012-12-31 | 2002-11-27 |
| Energy-Koch Trading Canada (ULC) | EPE-226 | Interruptible | — | 1 200 000 | | 2002-12-20 | 2012-12-19 | 2002-12-12 |
| | EPE-227 | Firm | — | 1 200 000 | | 2002-12-20 | 2012-12-19 | 2002-12-12 |

a) Total exports shall not exceed the given amounts less any amounts exported under Permit EPE-217.

b) Total exports shall not exceed the given amounts less any amounts exported under Permit EPE-219.

c) Total exports shall not exceed the given amounts less any amounts exported under Permit EPE-223.

E5(b) Amending Orders Issued During 2002 for Export Licences and Export Permits

| Applicant | Order No. | Issued | Comments |
|---|------------------|---------------|--|
| UtiliCorp Networks Canada (British Columbia) Ltd. | AO-1-EPE-13 | 2002-01-10 | Change of name from West Kootenay Power and Light Company Ltd. to UtiliCorp Networks Canada (British Columbia) Ltd. |
| Teck Cominco Metals Ltd. | AO-1-EPE-131 | 2002-02-14 | Change of name from Cominco Ltd. to Teck Cominco Metals Ltd. |
| | AO-1-EPE-132 | 2002-02-14 | |
| | AO-1-EPE-133 | 2002-02-14 | |
| | AO-1-EPE-134 | 2002-02-14 | |
| Duke Energy Marketing Canada Ltd. | AO-1-EPE-135 | 2002-04-26 | To authorize export over any Board-authorized international power lines in Saskatchewan. |
| | AO-1-EPE-136 | 2002-04-26 | To authorize export over any Board-authorized international power lines in New Brunswick. |
| | AO-2-EPE-135 | 2002-07-25 | |
| Ontario Power Generation Inc. | AO-2-EPE-136 | 2002-07-25 | |
| | AO-66-EPE-21 | 2002-03-22 | Addition of a transaction agreement. |
| | AO-67-EPE-21 | 2002-05-21 | Addition of a transaction agreement. |
| TransAlta Energy Marketing Corp. and TransAlta Energy Marketing (U.S.) Inc. | AO-1-EPE-167 | 2002-04-25 | Change of name from TransAlta Energy Marketing Corp. to TransAlta Energy Marketing (U.S.) Inc. |
| | AO-1-EPE-168 | 2002-04-25 | |
| UBS AG, London Branch | AO-1-EPE-98 | 2002-05-23 | Transfer of permits from Enron Capital & Trade Resources Canada Corp. to UBS AG, London Branch. |
| | AO-1-EPE-99 | 2002-05-23 | |
| Aquila Merchant Services - International Limited | AO-1-EPE-188 | 2002-06-05 | Transfer of permits from Aquila Capital and Trade Ltd. to Aquila Merchant Services - International Limited. |
| | AO-1-EPE-189 | 2002-06-05 | |
| EPCOR Merchant and Capital Inc. | AO-1-EPE-186 | 2002-06-19 | To authorize export over any Board-authorized international power line. |
| | AO-1-EPE-187 | 2002-06-19 | |
| Brascan Energy Marketing Inc. | AO-3-EPE-111 | 2002-07-16 | Change of name from Énergie Maclaren to Brascan Energy Marketing Inc. |
| | AO-3-EPE-112 | 2002-07-16 | |
| UtiliCorp Networks Canada (British Columbia) Ltd. | AO-2-EPE-13 | 2002-09-12 | Change of name from UtiliCorp Networks Canada (British Columbia) Ltd. to Aquila Networks Canada (British Columbia) Ltd. |
| Cargill Power Canada, LP | AO-1-EPE-203 | 2002-11-25 | Transfer of Permit from Cargill-Alliant Energy Canada, Inc. to Cargill Energy Trading Canada, Inc. effective 1 January 2003. |
| | AO-1-EPE-204 | 2002-11-25 | |
| Manitoba Hydro-Electric Board | AO-1-EPE-144 | 2002-11-28 | To authorize export over any Board-authorized international power lines in Manitoba, Saskatchewan and Ontario. |
| | AO-1-EPE-155 | 2002-11-28 | |
| | AO-1-EPE-207 | 2002-11-28 | |
| Aquila Merchant Services | AO-1-EPE-114 | 2002-12-04 | Transfer of Permit from Aquila Canada Corp. to Aquila Merchant Services located in Kansas City, Missouri, U.S.A. |
| | AO-1-EPE-115 | 2002-12-04 | |

E5(c) Revoking Orders Issued During 2002 for Export Licences and Export Permits

| Applicant | Order No. | Issued | Comments |
|--|------------------|---------------|--|
| Aquila Merchant Services - International Limited | RO-EPE-188 | 2002-12-04 | Revoked at the request of the company. |
| | RO-EPE-189 | 2002-12-04 | |
| Aquila Merchant Services | RO-EPE-190 | 2002-12-04 | Revoked at the request of the company. |
| | RO-EPE-191 | 2002-12-04 | |

E6. Electricity Exports - 2002

(Megawatt Hours)

| Exporter | Permit/ Licence Number | Permit/Licence Limit | | Gross Energy Exported | | | Value of Export (\$) | |
|--|------------------------------|---------------------------|---------------------------|-----------------------|------------------|-------------------------|----------------------|--------------------|
| | | Firm | Interruptible | Firm | Interruptible | Exchange ^(a) | Firm | Interruptible |
| NEW BRUNSWICK | | | | | | | | |
| Constellation Power Source Inc. | EPE-138 | — | 1 752 000 | — | — | — | — | — |
| | EPE-139 | 5 256 000 ^(b) | — | — | — | — | — | — |
| Fraser Paper Inc. (Canada) | EPE-147 | 400 000 | — | 338 610 | — | — | 22,829,433 | — |
| New Brunswick Power Corporation | EPE-17* | 250 000 | — | — | — | 10 909 | — | — |
| | EPE-28 | 1 000 | — | 23 | — | — | 3,118 | — |
| | EPE-47 | 175 200 | — | 81 152 | — | 451 | 5,489,772 | — |
| | EPE-48* | — | 32 000 | — | — | — | — | — |
| | EPE-90 | 6 482 000 ^(c) | — | 327 137 | — | 2 732 | 21,664,247 | — |
| | EPE-91 | — | 6 482 000 ^(c) | — | 1 553 305 | - 12 597 | — | 100,428,747 |
| | EPE-148 | 2 000 000 | — | 671 043 | — | — | 41,335,393 | — |
| Williams Energy Marketing & Trading Canada, Inc. | EPE-208 | — | 4 000 000 | — | — | — | — | — |
| | EPE-209 | 4 000 000 | — | — | — | — | — | — |
| WPS Power Development Inc. | EL-177 | 200 000 | — | 72 110 | — | — | 917,233 | — |
| TOTAL | | | | 1 490 075 | 1 553 305 | 1 495 | 92,239,196 | 100,428,747 |
| NOVA SCOTIA | | | | | | | | |
| BP Canada Energy Company | EPE-178 | — | 5 000 000 ^(d) | — | — | — | — | — |
| | EPE-179 | 5 000 000 | — | — | — | — | — | — |
| Emera Energy Inc. | EPE-216 | — | 4 800 000 ^(e) | — | 1 720 | — | — | 112,917 |
| | EPE-217 | 4 800 000 | — | — | — | — | — | — |
| Nova Scotia Power Inc. | EPE-122 | — | 1 200 000 ^(f) | — | 28 097 | — | — | 1,157,498 |
| | EPE-123 | 1 200 000 ^(f) | — | — | — | — | — | — |
| TOTAL | | | | 0 | 29 817 | 0 | 0 | 1,270,415 |
| QUÉBEC | | | | | | | | |
| Brascan Energy Marketing Inc. | EPE-111 | — | 8 760 000 ^(g) | — | — | — | — | — |
| | EPE-112 | 8 760 000 ^(g) | — | 168 806 | — | — | 12,432,663 | — |
| Énergie Maclaren Inc. | EPE-111 | — | 8 760 000 ^(g) | — | — | — | — | — |
| | EPE-112 | 8 760 000 ^(g) | — | 163 358 | — | — | 8,735,436 | — |
| Hydro-Québec | EL-151* | — | 11 000 000 | — | — | — | — | — |
| | EL-156* | 25 000 | — | — | — | — | — | — |
| | EL-166* | — | 4 000 000 | — | — | — | — | — |
| | EL-176 | 9 000 000 | — | — | — | — | — | — |
| | EL-180 | 1 402 000 | — | 1 106 592 | — | — | 115,029,699 | — |
| | EL-181 | 400 000 | — | 205 218 | — | — | 20,435,636 | — |
| | EL-182 | 406 000 | — | 169 410 | — | — | 17,039,807 | — |
| | EL-183 | 540 000 | — | 298 205 | — | — | 30,974,722 | — |
| | EL-184 | 406 000 | — | 195 039 | — | — | 20,801,462 | — |
| | EL-185 | 7 028 000 | — | — | — | — | — | — |
| | EPE-20 | 27 331 | — | 1 210 | — | — | 86,017 | — |
| | EPE-64 | — | 30 000 000 ^(h) | — | 11 601 005 | 99 450 | — | 552,703,997 |
| | EPE-65 | 20 000 000 ⁽ⁱ⁾ | — | — | — | — | 14,723,421 | — |
| Marketing d'Énergie HQ Inc. | EPE-129 | — | 30 000 000 ^(j) | — | 829 787 | — | — | 42,712,321 |
| | EPE-130 | 30 000 000 ^(j) | — | — | — | — | — | — |

E6. Electricity Exports - 2002 (Continued)

(Megawatt Hours)

| Exporter | Permit/ Licence Number | Permit/Licence Limit | | Gross Energy Exported | | | Value of Export (\$) | |
|--|------------------------------|--------------------------|---------------------------|-----------------------|-------------------|-------------------------|----------------------|--------------------|
| | | Firm | Interruptible | Firm | Interruptible | Exchange ^(a) | Firm | Interruptible |
| Montwegan International | EPE-108 | — | 8 760 000 ^(k) | — | — | — | — | — |
| Energia Resorce Inc. | EPE-109 | 8 760 000 ^(k) | — | — | — | — | — | — |
| Tractebel Energy Marketing Inc. | EPE-86 | — | 8 760 000 ^(l) | — | — | — | — | — |
| | EPE-87 | 8 760 000 | — | — | — | — | — | — |
| TOTAL | | | | 2 307 838 | 12 430 792 | 99 450 | 240,258,863 | 595,416,318 |
| ONTARIO | | | | | | | | |
| Abitibi-Consolidated Inc. | EPE-75 | — | 175 000 | — | — | — | — | — |
| Aquila Canada Corp. | EPE-114 | — | 5 000 000 | — | 17 | — | — | 491 |
| | EPE-115 | 5 000 000 | — | 2 072 | — | — | 56,544 | — |
| Aquila Merchant Services (Kansas City, Missouri, U.S.A.) | EPE-114 | — | 5 000 000 | — | — | — | — | — |
| | EPE-115 | 5 000 000 | — | — | — | — | — | — |
| Canadian Niagara Power Company Limited | EPE-84 | 656 000 | — | 114 375 | — | — | 4,299,093 | — |
| | EPE-149 | 250 000 ^(m) | — | — | — | — | — | — |
| | EPE-150 | — | 250 000 ^(m) | — | — | — | — | — |
| The Canadian Transit Company | EPE-29 | 50 | — | — | — | — | — | — |
| Cargill-Alliant Energy Canada, LP | EPE-203 | — | 10 000 000 ⁽ⁿ⁾ | — | — | — | — | — |
| | EPE-204 | 8 760 000 | — | 2 928 | — | — | 67,801 | — |
| Conectiv Energy | EPE-212 | — | 5 000 000 | — | 69 661 | — | — | 2,925,097 |
| | EPE-213 | 5 000 000 | — | — | — | — | — | — |
| Coral Energy Canada Inc. | EPE-173 | — | 5 000 000 | — | — | — | — | — |
| | EPE-174 | 5 000 000 | — | 24 401 | — | — | 6,527,164 | — |
| The Detroit and Windsor Subway Company | EPE-26 | 5 000 | — | 1 628 | — | — | 0 | — |
| EPCOR Merchant and Capital Inc. | EPE-186 | — | 10 541 000 | — | — | — | — | — |
| | EPE-187 | 6 588 000 | — | 270 | — | — | 15,309 | — |
| Hydro One Networks | EPE-25 | 200 | — | 36 | — | — | 4,104 | — |
| Independent Electricity Market Operator | EPE-22 | — | 10 000 000 | — | — | 1 586 774 | — | — |
| | EPE-177 | — | 23 360 000 | — | — | — | — | — |
| Mirant Americas Energy Marketing, L.P. | EPE-142 | — | 3 000 000 | — | 7 558 | — | — | 347,124 |
| | EPE-143 | 2 000 000 | — | — | — | — | — | — |
| Morgan Stanley Capital Group | EPE-180 | — | 779 000 | — | 100 | — | — | 5,291 |
| | EPE-181 | 1 557 000 | — | — | — | — | — | — |
| Ontario Power Generation Inc. (OPGI) | EPE-24 | 15 000 | — | 277 | — | — | 553 | — |
| | EPE-110 | 150 | — | — | — | — | — | — |
| OPGI and Ontario Hydro Interconnected Markets Inc. | EPE-21 | — | 25 000 000 | — | 2 137 087 | 121 822 | — | 84,092,219 |
| PG&E Energy Trading - Power L.P. | EPE-145 | — | 5 000 000 | — | — | — | — | — |
| | EPE-146 | 5 000 000 | — | 33 818 | — | — | 1,420,231 | — |
| Sempra Energy Trading Co. | EPE-156 | — | 8 760 000 | — | — | — | — | — |
| | EPE-157 | 8 300 000 | — | 12 913 | — | — | 628,701 | — |
| St. Clair Tunnel Company | EPE-70 | 6 | — | — | — | — | — | — |
| TOTAL | | | | 192 718 | 2 214 423 | 1 708 596 | 13,019,500 | 87,370,222 |

E6. Electricity Exports - 2002 (Continued)

(Megawatt Hours)

| Exporter | Permit/ Licence Number | Permit/Licence Limit | | Gross Energy Exported | | | Value of Export (\$) | |
|-------------------------|------------------------------|---------------------------|---------------------------|-----------------------|------------------|-------------------------|----------------------|--------------------|
| | | Firm | Interruptible | Firm | Interruptible | Exchange ^(a) | Firm | Interruptible |
| MANITOBA | | | | | | | | |
| Manitoba Hydro | EL-170 | 3 405 000 | — | 3 302 700 | — | — | 178,707,299 | — |
| | EPE-33 | 883 000 | — | 54 355 | — | — | 1,910,165 | — |
| | EPE-34 | 663 000 | — | 48 440 | — | — | 2,166,650 | — |
| | EPE-35 | 663 000 | — | 119 377 | — | — | 3,869,122 | — |
| | EPE-45 | 16 650 000 ^(a) | — | 237 920 | — | — | 19,378,570 | — |
| | EPE-46 | — | 16 650 000 ^(a) | — | 2 731 921 | (834 702) | — | 118,422,466 |
| | EPE-68 | 438 000 | — | 186 047 | — | — | 8,024,306 | — |
| | EPE-72 | 20 | — | 12 | — | — | 1,211 | — |
| | EPE-128 | 26 780 | — | 6 086 | — | — | 323,666 | — |
| | EPE-144 | 438 000 ^(a) | — | 217 185 | — | — | 19,641,268 | — |
| | EPE-155 | 526 000 ^(a) | — | 257 361 | — | — | 18,343,688 | — |
| | EPE-207 | 878 000 | — | 248 326 | — | — | 19,679,505 | — |
| TOTAL | | | | 4 677 809 | 2 731 921 | 0 | 272,045,450 | 118,422,466 |
| SASKATCHEWAN | | | | | | | | |
| NorthPoint Energy | EPE-88 | — | 7 008 000 ^(a) | — | 418 994 | — | — | 22,010,920 |
| Solutions Inc. | EPE-89 | 7 008 000 ^(a) | — | 41 600 | — | — | 3,104,644 | — |
| TOTAL | | | | 41 600 | 418 994 | 0 | 3,104,644 | 22,010,920 |
| ALBERTA | | | | | | | | |
| Atco Electric Ltd. And | EPE-93 | — | 10 600 000 ^(a) | — | — | — | — | — |
| Atco Power Ltd. | EPE-94 | 10 600 000 ^(a) | — | — | — | — | — | — |
| Candela Energy | EPE-165 | — | 8 760 000 ^(a) | — | — | — | — | — |
| Corporation | EPE-166 | 8 760 000 | — | — | — | — | — | — |
| Chandler Energy Inc. | EPE-100 | — | 500 000 ^(a) | — | — | — | — | — |
| | EPE-101 | 500 000 ^(a) | — | — | — | — | — | — |
| Duke Energy Marketing | EPE-135 | — | 2 000 000 ^(a) | — | — | — | — | — |
| Canada Ltd. | EPE-136 | 2 000 000 ^(a) | — | — | — | — | — | — |
| Enmax Energy | EPE-169 | — | 8 760 000 | — | 34 150 | — | — | 1,218,005 |
| Marketing Inc. | EPE-170 | 3 504 000 | — | — | — | — | — | — |
| EnCana Energy | EPE-182 | — | 5 000 000 | — | — | — | — | — |
| Services Inc. | EPE-183 | 5 000 000 | — | — | — | — | — | — |
| Engage Energy | EPE-96 | — | 3 000 000 ^(a) | — | — | — | — | — |
| Canada, L.P. | EPE-97 | 3 000 000 ^(a) | — | — | — | — | — | — |
| IDACORP Energy L.P. | EPE-163 | — | 876 000 ^(a) | — | — | — | — | — |
| | EPE-164 | 876 000 | — | 2 022 | — | — | 53,863 | — |
| Nexen Marketing | EPE-194 | — | 5 000 000 | — | — | — | — | — |
| | EPE-195 | 5 000 000 | — | — | — | — | — | — |
| Reliant Energy Services | EPE-201 | — | 5 000 000 | — | — | — | — | — |
| Canada, Ltd. | EPE-202 | 5 000 000 | — | — | — | — | — | — |
| TransAlta Energy | EPE-167 | — | 8 760 000 ^(a) | — | — | — | — | — |
| Marketing Corp. | EPE-168 | 8 760 000 | — | 6 872 | — | — | 276,967 | — |
| TransAlta Energy | EPE-167 | — | 8 760 000 ^(a) | — | — | — | — | — |
| Marketing (U.S.) Inc. | EPE-168 | 8 760 000 | — | 49 838 | — | — | 1,645,583 | — |
| TransCanada Energy Ltd. | EPE-78 | — | 2 000 000 | — | 10 204 | — | — | 433,313 |
| | EPE-79 | 1 000 000 | — | — | — | — | — | — |
| TransCanada Power | EPE-184 | — | 2 000 000 | — | — | — | — | — |
| Marketing Inc. | EPE-185 | 2 000 000 | — | — | — | — | — | — |
| TOTAL | | | | 58 732 | 44 354 | 0 | 1,976,413 | 1,651,318 |

E6. Electricity Exports - 2002 (Continued)

(Megawatt Hours)

| Exporter | Permit/ Licence Number | Permit/Licence Limit | | Gross Energy Exported | | | Value of Export (\$) | |
|---|---|--|---|------------------------|-----------------------------------|---|---------------------------|--------------------------------------|
| | | Firm | Interruptible | Firm | Interruptible | Exchange ^(a) | Firm | Interruptible |
| BRITISH COLUMBIA | | | | | | | | |
| Aquila Networks Canada (British Columbia) Ltd. | EPE-13 | 50 | — | — | — | — | — | — |
| Bonneville Power Authority | EPE-140 EPE-141 | — — ^(z) | — — ^(z) | — | — | — | — | — |
| British Columbia Hydro and Power Authority | EPE-105 EPE-126 EPE-127 EPE-192 EPE-193 Treaty ^(bb) | 1 410 — — ^(aa) — — ^(aa) — | — — ^(aa) — — — | 940 | — | — — -3 587 521 909 106 — 265 155 | 255,001 | — |
| Columbia Power Corporation | EPE-158 EPE-159 EPE-160 | — 750 000 ^(cc) 200 000 | 750 000 ^(cc) — — | — | — | — | — | — |
| Dynegy Canada Inc. | EPE-80 EPE-81 | — 1 200 000 | 1 200 000 ^(dd) — | — | — | — | — | — |
| Inland Pacific Energy Services Ltd. | EPE-106 EPE-107 | — 2 000 000 ^(ee) | 2 000 000 ^(ee) — | — | — | — | — | — |
| Powerex Corp. | EPE-71 EPE-116 EPE-117 EPE-118 EPE-119 | 25 951 — 20 000 000 — 15 000 000 | — 40 000 000 ^(ff) — 27 000 000 ^(gg) — | — — — — — | 1 020 — 7 237 747 — — | — — — 491 — | — — — — — | — 44,241 — 261,191,375 — |
| Teck Cominco Metals Ltd. | EPE-131 EPE-132 EPE-133 EPE-134 | — 1 000 000 — 250 000 | 1 000 000 ^(hh) — 50 000 — | — 698 397 — — | — — — — | — — — — | — 26,413,023 — — | — — — — |
| TOTAL | | | | 699 337 | 7 238 767 | -2 412 769 | 26,668,024 | 261,235,616 |
| OTHER(ii) | | | | | | | | |
| Advantage Energy, Inc. | EPE-222 EPE-223 | — 600 000 | 900 000 ⁽ⁱ⁾ — | — | — | — | — | — |
| CMS Marketing, Services and Trading | EPE-161 EPE-162 | — 1 752 000 | 6 310 000 ^(kk) — | — | — | — | — | — |
| Consumers Energy Company | EPE-218 EPE-219 | — 16 000 000 | 24 000 000 ^(ll) — | — | — | — | — | — |
| The Detroit Edison Company | EPE-205 | 8 760 000 | — | — | — | — | — | — |
| Direct Energy Marketing Limited | EPE-199 EPE-200 | — 8 760 000 | 8 760 000 — | — | — | — | — | — |
| DTE Energy Trading, Inc. | EPE-206 | 10 000 000 | — | — | — | — | — | — |
| Dynegy Power Marketing, Inc. | EPE-210 EPE-211 | — 1 200 000 | 1 200 000 — | — | — | — | — | — |
| Edison Mission Marketing & Trading Inc. | EPE-120 EPE-121 | — 2 160 000 | 432 000 — | — | — | — | — | — |
| El Paso Merchant Energy, L.P. | EPE-175 EPE-176 | — 5 000 000 | 5 000 000 — | — | — | — | — | — |
| Engage Energy US L.P. | EPE-151 EPE-152 | — 7 508 000 | 2 234 000 — | — | — | — | — | — |
| Entergy Power Marketing Corporation | EPE-153 EPE-154 | — 5 000 000 ^(mm) | 5 000 000 ^(mm) — | — | — | — | — | — |
| Entergy-Koch | EPE-226 EPE-227 | — 1 200 000 | 1 200 000 — | — | — | — | — | — |

E6. Electricity Exports - 2002 (Continued)

(Megawatt Hours)

| Exporter | Permit/ Licence Number | Permit/Licence Limit | | Gross Energy Exported | | | Value of Export (\$) | |
|---|------------------------------|---------------------------|---------------------------|-----------------------|-------------------|-------------------------|----------------------|----------------------|
| | | Firm | Interruptible | Firm | Interruptible | Exchange ^(a) | Firm | Interruptible |
| OTHERS (II) continued | | | | | | | | |
| Exelon Generation Company, LLC | EPE-214 | — | 1 000 000 | — | — | — | — | — |
| | EPE-215 | 4 380 000 | — | — | — | — | — | — |
| NRG Power Marketing Inc. | EPE-171 | — | 1 000 000 | — | — | — | — | — |
| | EPE-172 | 2 000 000 | — | — | — | — | — | — |
| OGE Energy Resources, Inc. | EPE-197 | — | 250 000 | — | — | — | — | — |
| | EPE-198 | 1 500 000 | — | — | — | — | — | — |
| Sonat Power Marketing Inc. and Sonat Power Marketing L.P. | EPE-103 | — | 3 500 000 ^(m) | — | — | — | — | — |
| | EPE-104 | 3 500 000 ^(m) | — | — | — | — | — | — |
| Split Rock Energy LLC | EPE-220 | — | 600 000 | — | — | — | — | — |
| | EPE-221 | 600 000 | — | — | — | — | — | — |
| UBS AG, London Branch | EPE-98 | — | 5 000 000 ^(oo) | — | — | — | — | — |
| | EPE-99 | 5 000 000 ^(oo) | — | — | — | — | — | — |
| TOTAL CANADA^(pp) | | | | 9 468 109 | 26 662 373 | - 603 228 | 649,312,090 | 1,187,806,022 |

- a) Exchange includes inadvertent and circulating flow, equichange, storage, adjustment transfer, and wheeling or carrier transfer which normally do not have associated revenue.
- b) Total exports shall not exceed 5 256 GW.h less any amount in excess of 876 GW.h exported under Permit EPE-138.
- c) Total exports shall not exceed 6 482 GW.h less any amount exported under any other electricity export authorization issued to NB Power.
- d) Total exports shall not exceed 5 000 GW.h less any amount exported under Permit EPE-179.
- e) Total exports shall not exceed 4 800 GW.h less any amount exported under Permit EPE-217.
- f) Total combined exports for Permits EPE-122 and EPE-123 shall not exceed 1 200 GW.h.
- g) Total exports shall not exceed 8 760 GW.h less any amount exported under Permit EPE-112.
- h) Total exports shall not exceed 30 000 GW.h less any amount exported under Permit EPE-65.
- i) Total exports shall not exceed 20 000 GW.h less any amount exported under any other electricity export authorization issued to Hydro-Québec except Permit EPE-64.
- j) Total combined exports for Permits EPE-129 and EPE-130 shall not exceed 30 000 000 GW.h.
- k) Total combined exports for Permits EPE-108 and EPE-109 shall not exceed 8 760 GW.h.
- l) Total exports shall not exceed 8 760 GW.h less any amount exported under Permit EPE-87.
- m) Total combined exports for Permits EPE-149 and EPE-150 shall not exceed 250 GW.h.
- n) Total exports shall not exceed 10 000 000 GW.h less any amount exported under Permit EPE-204.
- o) Total exports shall not exceed 16 650 GW.h less any amount exported under any other electricity export authorization except border accommodations issued to Manitoba Hydro.
- p) Total annual exports must not exceed 438 GW.h in 2001 through 2009, and 146 GW.h in 2010.
- q) Total annual exports shall not exceed 526 GW.h in 2001 through 2008, 350 GW.h in 2009, 263 GW.h in 2010 and 2011, and 88 GW.h in 2012.
- r) Total exports shall not exceed 7 008 GW.h less any amount exported under any other electricity authorization except border accommodations issued to Saskpower.
- s) Total combined exports for Permits EPE-93 and EPE-94 shall not exceed 10 600 GW.h.
- t) Total exports shall not exceed 8 700 GW.h less any amount exported under Permit EPE-166.
- u) Total combined exports for Permits EPE-100 and EPE-101 shall not exceed 500 GW.h.
- v) Total combined exports under Permits EPE-135 and EPE-136 shall not exceed 2 000 GW.h.
- w) Total combined exports under Permits EPE-96 and EPE-97 shall not exceed 3 000 GW.h.
- x) Total exports shall not exceed 876 GW.h less any amount exported under Permit EPE-164.
- y) Total exports shall not exceed 8 760 GW.h less any amount exported under Permit EPE-168.
- z) Total exports shall not exceed the maximum transfer limits of the international power lines of BC Hydro and Cominco.
- aa) Total combined exports under Permits EPE-124, EPE-125, EPE-126, EPE-127, EPE-192 and EPE-193 shall not exceed the maximum transfer limits of the international power lines.
- bb) Energy exported in accordance with the Skagit River Valley Treaty which is not under the Board's jurisdiction.
- cc) Total combined annual exports under Permits EPE-158 and EPE-159 shall not exceed 500 GW.h for years commencing 1 June in 2004 through 2009; 750 GW.h for years commencing 1 June 2001 and 2003; and 1 000 GW.h for the year commencing 1 June 2002.
- dd) Total exports shall not exceed 1 200 GW.h less any amount exported under Permit EPE-81.
- ee) Total combined exports for Permits EPE-106 and EPE-107 shall not exceed 2 000 GW.h.
- ff) Total exports shall not exceed 40 000 GW.h less any amount exported under Permit EPE-117.
- gg) Total exports shall not exceed 27 000 GW.h less any amount exported under Permit EPE-119.
- hh) Total exports shall not exceed 1 000 GW.h less any amount exported under Permit EPE-132.
- ii) Exporters who are not based in Canada and did not export from Canada in 2002.
- jj) Total exports shall not exceed 900 GW.h less any amount exported under Permit EPE-223.
- kk) Total exports shall not exceed 6 310 GW.h less any amount exported under Permit EPE-162.
- ll) Total exports shall not exceed 24 000 GW.h less any amount exported under Permit EPE-219.
- mm) Total combined exports under Permits EPE-153 and EPE-154 shall not exceed 5 000 GW.h.
- nn) Total combined exports under Permits EPE-103 and EPE-104 shall not exceed 3 500 GW.h.
- oo) Total combined exports under Permits EPE-98 and EPE-99 shall not exceed 5 000 GW.h.
- pp) Excludes \$3,712,646 revenue for wheeling, transmission, unit rental and storage transfer charges.

* Expired during 2002.

E7. Electricity Trade Between Canada and the United States^(a) - 2002

(By Province, Megawatt Hours)

| Province | Region / State | Export ^(b) | Import ^(c) | Net Export ^{(b)(c)} |
|-------------------------------|----------------------------|-----------------------|-----------------------|------------------------------|
| Nova Scotia | Maine | 29 817 | - | 29 817 |
| Total Nova Scotia | | 29 817 | - | 29 817 |
| New Brunswick | Maine | 3 043 380 | 9 121 | 3 034 259 |
| Total New Brunswick | | 3 043 380 | 9 121 | 3 034 259 |
| Québec | Maine | 829 787 | 182 968 | 646 819 |
| | Massachusetts | 171 728 | - | 171 728 |
| | New England ^(d) | 2 400 | - | 2 400 |
| | New York | 11 626 931 | 2 362 766 | 9 264 165 |
| | Vermont | 2 107 784 | - | 2 107 784 |
| Total Québec | | 14 738 630 | 2 545 734 | 12 192 896 |
| Ontario | New York | 2 261 153 | 586 906 | 1 674 247 |
| | Pennsylvania | 350 | 96 160 | - 95 810 |
| | Virginia | 375 | - | 375 |
| | Michigan | 5 664 | 704 087 | - 698 423 |
| | Ohio | - | 3 385 | - 3 385 |
| | Indiana | - | 810 | - 810 |
| | Missouri | - | 136 | - 136 |
| | Illinois | - | 125 015 | - 125 015 |
| | Minnesota | 132 232 | 236 296 | - 104 064 |
| Total Ontario | | 2 399 774 | 1 752 795 | 646 979 |
| Manitoba | Minnesota | 75 | - | 75 |
| | North Dakota/Minnesota | 7 409 730 | 2 142 733 | 5 266 997 |
| Total Manitoba | | 7 409 805 | 2 142 733 | 5 267 072 |
| Saskatchewan | North Dakota | 460 594 | 962 686 | - 502 092 |
| | Montana | 70 | - | 70 |
| Total Saskatchewan | | 460 664 | 962 686 | - 502 022 |
| Alberta | Oregon | 545 | 5 466 | - 4 921 |
| | Washington | 102 541 | 409 790 | - 307 249 |
| Total Alberta | | 103 086 | 415 256 | - 312 170 |
| British Columbia | Alaska | 940 | - | 940 |
| | Arizona | 64 261 | - | 64 261 |
| | California | 1 922 569 | - | 1 922 569 |
| | Colorado | 6 707 | - | 6 707 |
| | Idaho | 626 | - | 626 |
| | Montana | 52 033 | - | 52 033 |
| | North Dakota | 42 | - | 42 |
| | Oregon | 1 476 489 | 3 205 | 1 473 284 |
| | South Dakota | 363 | - | 363 |
| | Pennsylvania | 30 | - | 30 |
| | Minnesota | 1 580 | - | 1 580 |
| | Nevada | 84 752 | - | 84 752 |
| | New Mexico | 15 310 | - | 15 310 |
| | Utah | 8 800 | - | 8 800 |
| | Wyoming | 21 187 | - | 21 187 |
| | Washington | 4 281 412 | 5 161 524 | - 880 112 |
| Total British Columbia | | 7 937 101 | 5 164 729 | 2 772 372 |
| TOTAL | | 36 122 257 | 12 993 054 | 23 129 203 |

a) Sales and purchases only; excludes exchanges.

b) Sales to the United States.

c) Purchases from the United States.

d) Trade with the New England Power Pool - quantities to each state cannot be accurately determined.

E8. Electricity Trade Between the United States and Canada^(a) - 2002

(By American Region / State, Megawatt Hours)

| Province | Region / State | Export ^(b) | Import ^(c) | Net Export ^{(b)(c)} |
|----------------------------|------------------|-----------------------|-----------------------|------------------------------|
| New England | | | | |
| Maine | New Brunswick | 3 043 380 | 9 121 | 3 034 259 |
| | Nova Scotia | 29 817 | - | 29 817 |
| | Québec | 829 787 | 182 968 | 646 819 |
| Massachusetts | Québec | 171 728 | - | 171 728 |
| New England ^(d) | Québec | 2 400 | - | 2 400 |
| Vermont | Québec | 2 107 784 | - | 2 107 784 |
| Total New England | | 6 184 896 | 192 089 | 5 992 807 |
| Pennsylvania | | | | |
| Total Pennsylvania | British Columbia | 30 | - | 30 |
| | Ontario | 350 | 96 160 | - 95 810 |
| | | 380 | 96 160 | - 95 780 |
| New York | | | | |
| Total New York | Ontario | 2 261 153 | 586 906 | 1 674 247 |
| | Québec | 11 626 931 | 2 362 766 | 9 264 165 |
| | | 13 888 084 | 2 949 672 | 10 938 412 |
| Central | | | | |
| Michigan | Ontario | 5 664 | 704 087 | - 698 423 |
| Missouri | Ontario | 136 | - | - 136 |
| Illinois | Ontario | 125 015 | - | - 125 015 |
| Indiana | Ontario | 810 | - | - 810 |
| Ohio | Ontario | 3 385 | - | - 3 385 |
| Total Central | | 5 664 | 833 433 | - 827 769 |
| Midwest | | | | |
| Minnesota | British Columbia | 1 580 | - | 1 580 |
| | Manitoba | 75 | - | 75 |
| | Ontario | 132 232 | 236 296 | - 104 064 |
| North Dakota/Minnesota | Manitoba | 7 409 730 | 2 142 733 | 5 266 997 |
| North Dakota | British Columbia | 42 | - | 42 |
| | Saskatchewan | 460 594 | 962 686 | - 502 092 |
| South Dakota | British Columbia | 363 | - | 363 |
| Total Midwest | | 8 004 616 | 3 341 715 | 4 662 901 |
| Virginia | | | | |
| Total Virginia | Ontario | 375 | - | 375 |
| | | 375 | - | 375 |
| Western | | | | |
| Alaska | British Columbia | 940 | - | 940 |
| Arizona | British Columbia | 64 261 | - | 64 261 |
| California | British Columbia | 1 922 569 | - | 1 922 569 |
| Colorado | British Columbia | 6 707 | - | 6 707 |
| Idaho | British Columbia | 626 | - | 626 |
| Montana | Saskatchewan | 70 | - | 70 |
| | British Columbia | 52 033 | - | 52 033 |
| Nevada | British Columbia | 84 752 | - | 84 752 |
| New Mexico | British Columbia | 15 310 | - | 15 310 |
| Oregon | Alberta | 545 | 5 466 | - 4 921 |
| | British Columbia | 1 476 489 | 3 205 | 1 473 284 |
| Utah | British Columbia | 8 800 | - | 8 800 |
| Washington | Alberta | 102 541 | 409 790 | - 307 249 |
| | British Columbia | 4 281 412 | 5 161 524 | - 880 112 |
| Wyoming | British Columbia | 21 187 | - | 21 187 |
| Total Western | | 8 038 242 | 5 579 985 | 2 458 257 |
| TOTAL | | 36 122 257 | 12 993 054 | 23 129 203 |

a) Sales and purchases only; excludes exchanges.

b) Purchases from Canada.

c) Sales to Canada.

d) Trade with the New England Power Pool - quantities to each state cannot be accurately determined.

metric conversion table

The Board uses the International System of Units. The energy content of a 30-litre tank of gasoline is approximately one gigajoule. A petajoule is one million gigajoules. On average, Canada consumes about one petajoule of energy every 50 minutes for all uses (heat, light and transportation).

The following conversion table is provided for the convenience of readers who may be more familiar with the Imperial System.

Approximate Conversion Factors

| | | |
|----------------------------|---|---|
| metre | = | 3.28 feet |
| kilometre | = | 0.62 mile |
| hectare | = | 2.47 acres |
| cubic metre of oil | = | 6.3 barrels |
| cubic metre of natural gas | = | 35.3 cubic feet |
| gigajoule | = | 0.95 thousand cubic feet of natural gas at 1 000 Btu per cubic foot or 0.165 barrel of oil, or 0.28 megawatt hours of electricity |
| gigajoule | = | 10^9 joules |
| petajoule | = | 10^{15} joules |
| gigawatt hour | = | 10^6 kilowatt hours |
| terawatt hour | = | 10^9 kilowatt hours |

Susan Abuid Laurie Aitchison Jim Anderson Elizabeth Arden Lilly Armstrong Jann Atkinson Lawrence Ator
Jawed Aziz Terry Baker Rita Bargetzi Trena Barnes Christine Beauchemin Helen Benes Judy Bennett
Nancy Berard Brown Steve Berthelet Bill Bingham Karen Blank Marie Bleskan Glenn Booth Paul Bourgeois
Lori Ann Boychuk Barry Branston Diane Brenner Chantal Briand Darrin Britton Michelle Brosseau Cliff Brown
Steve Brown John Bulger Terri Burke Bette Burton Stephen Buszowski Mona Butler Kevin Campbell
Shannon Carignan Gaétan Caron Philip Cheung Michael Chow Angus Cockney Ken Colosimo Pat Cormier
Brad Cossette Sylvie Cousineau Vanessa Cozine Colette Craig Susan Criddle Cassandra Crippen Sharon Culp
Cecilia Cupido Jan Dane Jim Davidson Greg Davis Heather Davis Gord Daw Teresa De Grosbois Shawn DeForest
Fred Deliencourt Danielle Demers Debbie Desaulniers Leona Desmet Anita Dion Bharat Dixit Abby Dorval
Megan Douglas Nancy Dubois Sharon Duffy Karen Duckworth Donna Dunn Mavis Dunn Lynne Duquette
Claudine Dutil Berry Carmen Dybwad Mary Dylke Ingrid Ektvedt Julian Emanuel Deborah Emes Peter Enderwick

Wendy Ettinger Marcus Eyre Sandra Falconi Alison Farrand Christopher Finley
Rick Fisher Pamela Floer David Forest Margery Fowke Jim Fox John Fox Yvonne Fry
Albert Fung Charlene Gaudet Feisal Gazie Scott Gedak Louise George Kevin Gerla
Diana Ghikas Lillian Giardini Gurdeep Gill Preet Gill Melanie Gnyp Kevin Goble
Byron Goodall Duncan Grant Bonnie Gray Geraldine Green Susan Marie Greentree
Matt Groza Susan Gudgeon Pierre Guenard Sam Guirgis Emily Halliday

Guy Hamel Judith Hanebury Rowland Harrison Sandy Harrison
Sandra Harrower Michelle Haug Debbie Heckbert Paul Hess
Ross Hicks Stella Hiebert Gord Higginson Kevin Hill Minh Ho
Merle Hoffman Brent Hogue Sue Holdsworth Colleen Holt
Kym Hopper-Smith Jensen Hu Orlando Huang Andrew Hudson
Gloria Hughes Louise Iljevec Judy Inglis Sheena Jackson
Leo Jansen Franci Jeglic Audry Johnston Elizabeth Johnston
Jeanette Johnston Brian Kane Valerie Katarey Maureen Kearns
Lee Kelm Teresa Kennedy Brenda Kenny Janine Kessler
Rudi Klaubert Chris Knoechel Mike Knopp Josef Kopec John Korec
Johanne Kozak Tim Kucey Bryan Labbé Michele Labbé Louise-
Solanges Lacasse Larry Ladell Anne Laflèche Nathalie Laprise
Kerry Lee Sharon Lee Robert LeMay Joe Lemee Nathan Len
Kent Lien Robin Lipton Denyse Longchamps Lynn Ludlow
Ken Luu Barry Lynch Louise Lynch Marnie MacGillivray

Larry Mackenzie Leanne Maeda Henry Mah Bruce Maher
Bob Mahnic Pat Mahon Tasneem Manji Michel Mantha
Wayne Marshall Sandra Martindale Cathy Martinello
Ken Massé Marcella Matzeit John McCarthy Nadia McCarthy
Jim McComiskey John McIsaac Claire McKinnon
Moira McKinnon Monika McPeake Margaret McQuiston
Shari Medford Loreto Meneses Jan Merta Margaret Merta
Geraldine Metcalfe Elke Meyer France Millette Ruth Mills Maureen Mitchell Tony Mitchell Bindu Modha
Bob Modray Caroline Moore Bruce Moores Jane Morales Carmen Morin Louis Morin Joyce Morrison
Karen Morton Carla Morton-Stowe Sylvia Mosseau Robert Mott Brian Nesbitt François Nguyen

Francine Poudrette Carol-Lynn Power Ricki Pratte
Elizabeth Quarshie Rima Raad Carolyn Ramsum
Karla Reesor Shirley Rehel Laura Richards Shane Richardson
Chantal Robert Sherry Robinson Terry Rochefort
Alex Ross Kent Rowden Mary Jane Sam Nurbanu Samji
Monica Santander Brenda Saretzky Jody Saunders
Mary Lou Scharf Peter Schnell Eugene Schoonen Earl Schultz
Dan Seekings Jason Selinger Don Semper Bill Seney
Candice Servais Michelle Shabits Ann Shalla Lori Ann Sharp
Jutta Shaw Henri Simoneau Chantale Simons Rudy Singer
Gail Singh Corina Smith Janet Soucy Patrick Sprague
Jennifer Stanier Brenda Stevens Jonathan Stewart
Brent Storey Susan Storey Catherine Taylor Terry Taylor
Jean Paul Théorêt Marc Thibaudeau Jane Thomas
Deborah Thompson Gerry Thompson Jean Paul Tourigny
Denis Tremblay Paul Trudel Rick Turner Lucie Vallieres
Chris van Egmond Laura Van Ham Mieke Vander Valk
Ken Vollman Dave Walker Patricia Walker Bill Wall
Shelley Watt Catherine Watson Bryan Williams
Sharon Wong Gary Woo David Young Tracy Young
Paul Yu Marian Yuzda Hanya Zacharko

Louise Niro James Obrigewitch Wendy Olan Karen Overli
Daniella Pacifico Chantal Painchaud Rosemarie Palmiere
Lorna Patterson Ken Paulson Marc Pauzé Joe Paviglianiti
Marina Pedersen Bernard Pelletier Steve Pierce Pat Pilon-
Rouleau Howard Plato Hans Pols Linda Postlewaite

