

National Energy  
Board



Office national  
de l'énergie



## Annual Report 2001 to Parliament



## Appendices

© Her Majesty the Queen in Right of Canada 2001  
as represented by the National Energy Board

Cat. No. NE1-2001E  
ISBN 0-662-31833-1

This report is published separately in both official  
languages.

Copies are available on request from:  
National Energy Board  
Publications Office  
444 Seventh Avenue S.W.  
Calgary, Alberta  
T2P 0X8  
(403) 299-3562  
1-800-899-1265

For pick-up at the NEB office:  
Library  
Ground Floor

Internet: <http://www.neb-one.gc.ca>

Printed in Canada

© Sa Majesté la Reine du Chef du Canada 2001  
représentée par l'Office national de l'énergie

N° de cat. NE1-2001F  
ISBN 0-662-86870-6

Ce rapport est publié séparément dans les deux  
langues officielles.

Exemplaires disponibles sur demande auprès du :  
Office national de l'énergie  
Bureau des publications  
444, Septième Avenue S.-O.  
Calgary (Alberta)  
T2P 0X8  
(403) 299-3562  
1-800-899-1265

En personne, au bureau de l'Office :  
Bibliothèque  
Rez-de-chaussée

Internet: <http://www.neb-one.gc.ca>

Imprimé au Canada

### **Credits:**

Cover design  
Jason Selinger

Layout Artist  
Donna Dunn

Cover Photos:  
© Keith Wood/Getty Images/Stone  
© Masterfile

# TABLE OF CONTENTS

## Appendix A

A1	Crude Oil and Equivalent Supply and Disposition . . . . .	1
A2	Estimated Established Reserves of Crude Oil and Bitumen at 31 December 2000 . . . . .	1
A3	Natural Gas Supply and Disposition . . . . .	2
A4	Estimated Established Reserves of Marketable Natural Gas at 31 December 2000 . . . . .	2
A5	Natural Gas Liquids Supply and Disposition . . . . .	3
A6	Geophysical Activity . . . . .	3
A7	Exploration and Development Expenditures . . . . .	4
A8	Sales of Exploration Rights in Western Canada . . . . .	4
A9	Sales of Exploration Rights in Frontier Regions . . . . .	5
A10	Electricity Generation and Disposition . . . . .	5

## Appendix B

B1	Certificates Issued During 2001 Approving Oil Pipeline Facilities Including Pipeline Construction Exceeding 40 Kilometres in Length . . . . .	6
B2	Orders Issued During 2001 Approving Oil Pipeline Facilities Including Pipeline Construction Not Exceeding 40 Kilometres in Length . . . . .	6
B3	Exports of Canadian Crude Oil and Equivalent - 2000 and 2001 . . . . .	8
B4	Exports of Canadian Crude Oil and Equivalent - 1997 to 2001 . . . . .	9
B5	Exports of Petroleum Products by Month - 2001 . . . . .	9
B6	Exports of Petroleum Products by Company - 2000 and 2001 . . . . .	10

## Appendix C

C1	Certificates Issued During 2001 Approving the Construction of Gas Pipeline Facilities Exceeding 40 Kilometres in Length . . . . .	11
C2	Orders Issued During 2001 Approving the Construction of Gas Pipeline Facilities Not Exceeding 40 Kilometres in Length . . . . .	11
C3	Licences and Long-Term Orders to Export Natural Gas as at 31 December 2001 . . . . .	13
C4	Licences and Long-Term Orders to Import Natural Gas as at 31 December 2001 . . . . .	21
C5	Natural Gas Exports by Export Point - 1997 to 2001 . . . . .	22
C6	Total Net Exports of Propane and Butanes - 2000 and 2001 . . . . .	23

## Appendix D

D1	Financial Information - Group 1 Oil Pipeline Companies with Multi-Year Incentive Toll Agreements	.24
D2	Financial Information - Group 1 Oil Pipeline Companies with Tolls Based on Cost of Service	.25
D3	Financial Information - Group 1 Gas Pipeline Companies	.26

## Appendix E

E1	Certificates and Permits Issued During 2001 for International Power Lines	.27
E2	Amending Orders Issued During 2001 for International Power Lines	.27
E3	Revoking Orders Issued During 2001 for International Power Lines	.27
E4	Licences Issued During 2001 for the Export of Electricity	.27
E5	Permits and Orders Issued During 2001 for the Export of Electricity	.28
E6	Electricity Exports - 2001	.29
E7	Electricity Trade Between Canada and the United States - 2001 (by Province)	.35
E8	Electricity Trade between the United States and Canada - 2001 (by American Region/State)	.37

## A1. Crude Oil and Equivalent Supply and Disposition (thousand cubic metres per day)

	1997	1998	1999	2000	2001 <sup>(e)</sup>
<b>Supply</b>					
Canadian Production <sup>(a)</sup>	335.1	348.3	334.4	342.7	348.2
Imports <sup>(b)</sup>	120.6	119.9	128.5	142.5	148.5
<b>Total Supply<sup>(d)</sup></b>	<b>455.7</b>	<b>468.2</b>	<b>462.9</b>	<b>485.2</b>	<b>496.7</b>
<b>Disposition</b>					
Domestic <sup>(b)</sup>	263.7	257.6	263.0	272.6	281.2
Exports <sup>(c)</sup>	193.5	212.5	186.0	219.4	218.1
<b>Total Disposition<sup>(d)</sup></b>	<b>457.2</b>	<b>470.1</b>	<b>449.0</b>	<b>492.0</b>	<b>499.3</b>

- (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.  
 (e) Estimate

## A2. Estimates of Established Reserves of Crude Oil and Bitumen at 31 December 2000 (million cubic metres)

	Initial	Remaining
<b>Conventional Crude Oil</b>		
British Columbia <sup>(a)</sup>	122.3	27.3
Alberta <sup>(b)</sup>	2 554.3	291.4
Saskatchewan <sup>(c)</sup>	754.0	182.0
Manitoba <sup>(d)</sup>	37.4	3.8
Ontario <sup>(e)</sup>	14.2	1.9
NWT and Yukon:		
Arctic Island & Eastern Arctic Offshore <sup>(f)</sup>	0.5	0.0
Mainland Territories - Norman Wells	37.5	6.8
Nova Scotia <sup>(g)</sup> - Cohasset and Panuke	7.0	0.0
Newfoundland <sup>(g)</sup> - Hibernia and Terra Nova	205.1	186.9
<b>Total</b>	<b>3 732.3</b>	<b>700.1</b>
<b>Crude Bitumen</b>		
Oil Sands - Upgraded Crude <sup>(b)</sup>	5 590.0	5 220.0
Oil Sands - Bitumen <sup>(b)</sup>	22 740.0	22 590.0
<b>Total</b>	<b>28 330.0</b>	<b>27 810.0</b>
<b>Total Conventional &amp; Bitumen</b>	<b>32 062.3</b>	<b>28 510.1</b>

- (a) British Columbia Ministry of Energy & Mines and NEB common database  
 (b) Alberta Energy & Utilities Board and NEB common database  
 (c) Provincial estimate for 31 December 2000  
 (d) Manitoba Energy and Mines to 31 December 1999  
 (e) Canadian Association of Petroleum Producers  
 (f) Bent Horn abandoned 1996  
 (g) Offshore Boards

### A3. Natural Gas Supply and Disposition (billion cubic metres)

	1997	1998	1999	2000	2001 <sup>(d)</sup>
<b>Supply</b>					
Marketable Gas Production <sup>(a)</sup>	161.1	165.2	170.3	176.1	180.7
Imports	1.5	1.1	1.4	2.3	5.8
<b>Total Supply</b>	<b>162.6</b>	<b>166.3</b>	<b>171.7</b>	<b>178.4</b>	<b>186.5</b>
<b>Disposition</b>					
Domestic <sup>(b)</sup>	67.3	64.0	66.3	72.4	69.9
Exports	82.8	88.1	95.5	101.7	108.6
Other Uses <sup>(c)</sup>	12.8	14.1	9.9	4.3	8.0
<b>Total Disposition</b>	<b>162.9</b>	<b>166.2</b>	<b>171.7</b>	<b>178.4</b>	<b>186.5</b>

(a) Source: Canadian Association of Petroleum Producers

(b) Source: Statistics Canada

(c) Includes pipeline fuel and losses, reprocessing, shrinkage and fuel, linepack, and net storage inventory change

(d) Estimate

### A4. Estimates of Established Reserves of Marketable Natural Gas at 31 December 2000 (billion cubic metres)

	Initial	Remaining
British Columbia <sup>(a)</sup>	607.8	234.3
Alberta <sup>(b)</sup>	4 063.5	1 210.7
Saskatchewan <sup>(c)</sup>	200.3	70.0
Ontario <sup>(d)</sup>	44.3	11.6
NWT and Yukon	25.9	14.4
Nova Scotia - Offshore <sup>(c)</sup>	85.0	81.4
<b>Total</b>	<b>5 026.8</b>	<b>1 622.4</b>

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

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

(c) Provincial estimate for 31 December 2000

(d) Canadian Association of Petroleum Producers

## A5. Natural Gas Liquids Supply and Disposition (thousand cubic metres per day)

	1997	1998	1999	2000	2001 <sup>(e)</sup>
<b>Supply</b>					
Canadian Production <sup>(a)</sup>	93.5	96.3	101.2	99.8	92.2
Imports <sup>(b)</sup>	1.2	1.3	1.4	1.6	1.5
<b>Total Supply<sup>(d)</sup></b>	<b>94.7</b>	<b>97.6</b>	<b>102.6</b>	<b>101.4</b>	<b>93.7</b>
<b>Disposition</b>					
Domestic <sup>(b)</sup>	63.3	62.6	72.4	68.1	66.9
Exports <sup>(c)</sup>	31.0	37.6	34.0	35.0	28.0
<b>Total Disposition<sup>(d)</sup></b>	<b>94.3</b>	<b>100.2</b>	<b>106.4</b>	<b>103.1</b>	<b>94.9</b>

- (a) Source: NEB  
 (b) Source: NEB Form 145  
 (c) Source: NEB Forms 157 and 86A  
 (d) Total supply may not equal total disposition due to inventory changes.  
 (e) Estimate

## A6. Geophysical Activity (active seismic crews)

	1997	1998	1999	2000	2001
January	79	75	48	49	39
February	78	74	37	49	50
March	78	55	36	45	61
April	31	12	13	22	23
May	33	22	10	16	27
June	39	37	16	15	31
July	35	36	24	38	36
August	39	27	37	34	37
September	26	22	38	20	34
October	39	24	40	28	25
November	42	27	38	34	23
December	64	43	40	27	24

Source: Petroleum Explorer

## A7. Exploration and Development Expenditures

(million \$)

	1997	1998	1999	2000	2001 <sup>(c)</sup>
<b>Exploration</b>					
Conventional Areas <sup>(a)</sup>	5,229	4,840	3,873	5,932	6,530
Frontier Areas <sup>(b)</sup>	139	214	513	639	705
<b>Total Canada</b>	<b>5,368</b>	<b>5,054</b>	<b>4,386</b>	<b>6,571</b>	<b>7,235</b>
<b>Development</b>					
Conventional Areas <sup>(a)</sup>	10,710	8,076	6,842	10,557	11,625
Frontier Areas <sup>(b)</sup>	900	1,865	2,347	1,492	1,640
<b>Total Canada</b>	<b>11,610</b>	<b>9,941</b>	<b>9,189</b>	<b>12,049</b>	<b>13,265</b>
<b>Total Expenditures</b>	<b>16,978</b>	<b>14,995</b>	<b>13,575</b>	<b>18,620</b>	<b>20,500</b>

(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

	1997	1998	1999	2000	2001 <sup>(a)</sup>
<b>Area (1000 ha)</b>					
Alberta	5 150	3 015	2 996	3 831	3 908
British Columbia	736	483	731	693	854
Saskatchewan	944	509	398	283	373
Manitoba	50	4	4	5	22
<b>Total</b>	<b>6 880</b>	<b>4 011</b>	<b>4 129</b>	<b>4 812</b>	<b>5 157</b>
<b>Price (million \$)</b>					
Alberta	1,153	597	593	1,142	1,086
British Columbia	216	96	176	248	440
Saskatchewan	130	61	46	48	56
Manitoba	6	0	0	1	1
<b>Total</b>	<b>1,505</b>	<b>754</b>	<b>815</b>	<b>1,439</b>	<b>1,583</b>

(a) Estimated

Source: Daily Oil Bulletin



## A9. Sales of Exploration Rights in Frontier Regions

	1997	1998	1999	2000	2001
<b>Nova Scotia Offshore</b>					
Licences	1	8	21	19	9
Expenditures (million \$)	2	94	597	253	527
Area (1 000 ha)	13	1 134	2 402	2 499	1 580
<b>Newfoundland Offshore</b>					
Licences	7	10	5	10	0
Expenditures (million \$)	284	175	193	89	0
Area (1 000 ha)	619	630	818	1 605	0
<b>Beaufort Sea and Mackenzie Delta</b>					
Licences	0	0	4	9	0
Expenditures (million \$)	0	0	183	466	0
Area (1 000 ha)	0	0	293	709	0
<b>Central Mackenzie Valley</b>					
Licences	5	0	0	6	5
Expenditures (million \$)	9	0	0	58	18
Area (1 000 ha)	375	0	0	764	398
<b>TOTAL</b>					
Licences	13	18	30	44	14
Expenditures (million \$)	295	270	973	866	545
Area (1 000 ha)	1 007	1 764	3 514	5 577	1 978

Source: Indian and Northern Affairs Canada

## A10. Electricity Generation and Disposition (*terawatt hours*)

	1997	1998	1999	2000	2001 <sup>(b)</sup>
<b>Supply</b>					
Total Generation	554.5	543.9	557.9	582.8	566.2
Imports <sup>(a)</sup>	9.4	15.0	14.5	13.7	17.9
<b>Total Supply</b>	<b>563.8</b>	<b>558.9</b>	<b>572.4</b>	<b>596.5</b>	<b>584.1</b>
<b>Disposition</b>					
Demand	518.5	516.6	529.5	546.7	544.0
Exports <sup>(a)</sup>	45.3	42.3	42.9	49.8	40.1
<b>Total Disposition</b>	<b>563.8</b>	<b>558.9</b>	<b>572.4</b>	<b>596.5</b>	<b>584.1</b>

(a) Includes service flows and other adjustments.

(b) Estimate

Source: Statistics Canada, NEB

## B1. Certificates Issued During 2001 Approving Oil Pipeline Facilities Including Pipeline Construction Exceeding 40 Kilometres in Length

Applicant	Certificate Number	Date Issued	Description	Estimated Cost (\$)
Enbridge Pipelines Inc.	OC-47	2001-05-01	(OH-1-2000 ) Terrace Expansion Program Phase II	140,000,000

## B2. Orders Issued During 2001 Approving Oil Pipeline Facilities Including Pipeline Construction Not Exceeding 40 Kilometres in Length

Applicant	Order Number	Date Issued	Description	Estimated Cost (\$)
Enbridge Pipelines Inc.	XO-E101-01-2001	2001-01-19	Year 2001 Facilities Construction	2,358,400
Enbridge Pipelines Inc.	XO-E101-02-2001	2001-01-26	Hilton Station Upgrades	2,410,000
Trans Mountain Pipe Line Company Ltd.	XO-T004-03-2001	2001-02-07	Various Projects Including Revisions to Containment Facilities	2,600,000
Enbridge Pipelines (NW) Inc.	XO-E102-04-2001	2001-02-07	Various Construction Projects	117,500
Enbridge Pipelines Inc.	XO-E101-05-2001	2001-02-14	Tankage and Receipt Metering at Hardisty	18,000,000
Enbridge Pipelines (Westpur) Inc.	XO-E103-06-2001	2001-02-15	Various Construction Projects	79,000
Enbridge Pipelines Inc.	XO-E101-07-2001	2001-02-21	Suncor Meter Manifold Upgrades	553,000
Trans Mountain Pipe Line Company Ltd.	XO-T004-08-2001	2001-02-26	Construction of a Pre-fabricated Building on a Proposed Industrial Site	143,995
Enbridge Pipelines (Westpur) Inc.	XO-E103-09-2001	2001-03-23	Construction of a Permanent Access Road	8,000
Montreal Pipe Line Limited	XO-M003-10-2001	2001-04-06	Construction of New Storage Tanks	14,000,000
Trans Mountain Pipe Line Company Ltd.	XO-T004-11-2001	2001-04-12	Repair and Maintenance Activity	335,000
Enbridge Pipelines (Westpur) Inc.	XO-E103-12-2001	2001-05-28	Decommissioning of 2 Kilometres of NPS 6 IG-02 Crude Oil Pipeline and Replacement of New NPS 4 Pipe	170,000
Enbridge Pipelines Inc.	XO-E101-13-2001	2001-06-14	Terrace Phase II Project - Loop 1	included in OC-47
Enbridge Pipelines Inc.	XO-E101-14-2001	2001-06-14	Terrace Phase II Project - Station Facilities	included in OC-47
Trans Mountain Pipe Line Company Ltd.	XO-T004-15-2001	2001-06-14	Construction of a New Control Centre Building	1,500,000
Enbridge Pipelines Inc.	XO-E101-16-2001	2001-06-25	Line 13 Valve Removal and Line Lowering at Milden Station	2,358,400
Trans-Northern Pipelines Inc.	XO-T002-17-2001	2001-07-05	Replacement of Pipeline Sections - Townships of Edwardsburg and Osnabruck	350,000
Enbridge Pipelines Inc.	XO-E101-18-2001	2001-07-13	Receipt Tankage Additions and Manifold Modifications (Tanks 46 and 47 at Hardisty)	23,310,000

## B2. Orders Issued During 2001 Approving Oil Pipeline Facilities Including Pipeline Construction Not Exceeding 40 Kilometres in Length

Applicant	Order Number	Date Issued	Description	Estimated Cost (\$)
Trans-Northern Pipelines Inc.	XO-T002-19-2001	2001-07-20	Pipeline Replacements in the Township of Sidney in Ontario	200,000
Trans-Northern Pipelines Inc.	XO-T002-20-2001	2001-07-20	Pipeline Replacements in the Township of Cramahe and Municipality of Clarington in Ontario	480,000
Enbridge Pipelines Inc.	XO-E101-21-2001	2001-08-21	Replacement of the Groundbed on Rectifier #720 at Westover Station	29,400
Express Pipeline Ltd.	XO-E092-22-2001	2001-08-28	Construction of a Cathodic Protection Groundbed	17,714
Trans Mountain Pipe Line Company Ltd.	XO-T004-23-2001	2001-08-31	Edmonton Pipeline Maintenance Facilities	1,500,000
Trans Mountain Pipe Line Company Ltd.	XO-T004-24-2001	2001-09-04	Various Minor Facilities Projects	350,194
Enbridge Pipelines Inc.	XO-E101-25-2001	2001-09-05	Cathodic Protection - Line 9	10,200
Enbridge Pipelines Inc.	XO-E101-26-2001	2001-09-12	Installation of a Straight Tee, Flanges, Valve and Possibly a Blind into the Existing Enbridge 48 inch Header at Husky Oil Operations Ltd. property	260,000
Montreal Pipe Line Limited	XO-M003-27-2001	2001-09-20	Modifications to the 18-inch Main Line Incoming Manifold at Montreal-East	275,000
Enbridge Pipelines Inc.	XO-E101-28-2001	2001-10-02	Expansion and Renovations to the Belleville Pipeline Maintenance Building	169,000
Montreal Pipe Line Limited	XO-M003-34-2001	2001-10-19	Installation of a Motor Operator in the 609.6 mm Line Block Valve / 43, North Shore of the St. Lawrence River, Montreal-East, Quebec	60,000
Trans Mountain Pipe Line Company Ltd.	XO-T004-35-2001	2001-11-06	Year 2002 Routine Capital Projects	10,251,000
Trans-Northern Pipelines Inc.	XO-T002-36-2001	2001-11-09	Line Lowering of a Section of Pipeline in Scarborough (Toronto) Ontario	145,000
Enbridge Pipelines Inc.	XO-E101-37-2001	2001-11-23	Corrosion Inhibitor Tank Installations	277,000
Husky Energy Inc.	XO-H028-38-2001	2001-11-26	Repair Program for the 10" Husky Synthetic Blend Crude Oil Pipeline from the Husky Lloydminster Upgrader to Lloydminster Terminal	48,800
Enbridge Pipelines (Westpur) Inc.	XO-E103-39-2001	2001-12-10	Year 2002 Facilities Construction	424,670
Enbridge Pipelines Inc.	XO-E101-40-2001	2001-12-13	System Expansion Phase II - Additional Detailed Design Modifications - Lines 1 and 13	1,982,000
BP Canada Energy Company on behalf of Dome NGL Pipelines Ltd.	XO-D007-41-2001	2001-12-14	Installation of Pipeline Import Metering Facilities at Windsor Storage Terminal	1,000,000
ISH Energy Ltd.	XO-J038-42-2001	2001-12-20	External Inspection and Repair Program on the Desan Crude Oil Pipeline	530,000

**B3. Exports of Canadian Crude Oil and Equivalent - 2000 and 2001**  
**(cubic metres)**

Consignee	2000		2001 <sup>(a)</sup>	
	Total	Daily Average	Total	Daily Average
Arco Chemicals	19 279	53	0	0
Astra Oil	0	0	178 931	490
BP Amoco	10 581 231	28 910	11 773 138	32 255
Chevron U.S.A.	670 722	1 833	775 300	2 124
Coastal States Trading Inc.	204 075	558	0	0
Conoco Inc.	4 691 793	12 819	5 412 312	14 828
Cooperative Refining LLC	0	0	223 468	612
Equistar Chemical	84 289	230	90 735	249
Equiva Trading International	1 738 146	4 749	528 068	1 447
Exxon Company, U.S.A.	1 338 072	3 656	0	0
ExxonMobil Corporation	0	0	13 726 922	37 608
Farmers Union Central Exchange, Incorp.	2 160 502	5 903	2 497 877	6 843
Flying J. Inc.	315 577	862	425 830	1 167
Frontier Oil & Refining Company	1 139 512	3 113	930 091	2 548
Koch Refining Company	13 024 320	35 586	12 543 591	34 366
Marathon Ashland Petroleum LLC	5 512 467	15 061	6 680 185	18 302
Mobil Oil Corporation	10 975 733	29 988	78 830	216
Montana Refining Company	281 449	769	312 087	855
Murphy Oil USA Inc.	1 627 637	4 447	1 836 521	5 032
PDV Midwest Refining	7 456 836	20 374	4 702 764	12 884
Phillips Petroleum Company	104 752	286	87 603	240
Premcor Refining	1 281 556	3 502	396 780	1 087
Silver Eagle Refinery	0	0	21 405	59
Sinclair Oil Corp.	597 128	1 631	983 504	2 695
South Korea Oil	0	0	91 533	251
Sun Refining and Marketing Company	5 529 401	15 108	4 705 185	12 891
Tesoro Refining	2 278 401	6 225	2 677 034	7 334
Tosco Refining	4 743 398	12 960	4 125 204	11 302
Ultramar Inc.	0	0	139 733	383
United Refining Company	3 627 349	9 911	3 455 402	9 467
U.S. Oil & Refining Co.	10 094	28	10 189	28
Valero Marketing & Supply	95 282	260	0	0
Others	197 976	541	199 969	548
<b>Total</b>	<b>80 286 977</b>	<b>219 363</b>	<b>79 610 189</b>	<b>218 110</b>

(a) Estimates

**B4. Exports of Canadian Crude Oil and Equivalent - 1997 to 2001**  
**(cubic metres per day)**

	1997	1998	1999	2000	2001 <sup>(a)</sup>
Light Crude Oil and Equivalent	66 236	82 006	79 329	85 793	78 669
Heavy Crude Oil	127 439	130 540	119 677	133 571	139 441
<b>Total</b>	<b>193 675</b>	<b>212 546</b>	<b>199 006</b>	<b>219 363</b>	<b>218 110</b>

(a) Estimates

**B5. Exports of Petroleum Products<sup>(a)</sup> by Month - 2001**  
**(cubic metres)**

Month	Motor Gasoline	Middle Distillates	Heavy Fuel Oil	Aviation Turbine Fuel	Partially Processed Oil	Total
January	694 574	597 604	196 920	3 192	45 924	1 538 214
February	622 909	593 547	175 713	8 282	8 656	1 409 109
March	705 610	626 841	147 289	16 310	24 012	1 520 062
April	732 501	516 269	210 773	4 593	30 377	1 494 512
May	836 029	630 286	206 179	41 536	32 041	1 746 072
June	760 839	659 283	167 566	25 649	45 749	1 659 085
July	814 206	538 732	267 863	7 211	12 099	1 640 111
August	862 369	721 274	174 704	6 030	0	1 764 378
September	664 088	724 539	167 282	18 706	56 352	1 630 966
October	424 239	470 247	114 173	4 689	0	1 013 347
November	683 674	559 415	236 194	4 197	0	1 483 480
December <sup>(b)</sup>	660 000	530 000	230 000	14 002	0	1 434 002
<b>Total</b>	<b>8 461 038</b>	<b>7 168 037</b>	<b>2 294 655</b>	<b>154 398</b>	<b>255 210</b>	<b>18 333 337</b>

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

(b) Estimates

**B6. Exports of Petroleum Products by Company - 2000 and 2001**  
**(cubic metres)**

<b>Exporter</b>	<b>2000</b>	<b>2001<sup>(a)</sup></b>
Chevron Canada Limited	226 014	176 291
Consumers Co-operative Refineries Ltd.	42 099	23 553
CXY Energy	3 211	0
Equiva Trading International	9 500	0
Farmers Union Central Exchange, Incorp.	52 952	16 170
Four Directions Petroleum (First Nation)	0	9 611
Gale's Gas Bars Limited	438	31 497
Griffith Oil Co.	60 347	79 791
Husky Oil Marketing Ltd.	62 997	78 449
Imperial Oil Limited	1 316 443	1 294 965
Irving Oil Limited	5 963 472	9 746 324
Kildair Service Ltée	43 523	17 773
MacEwen Petroleum Inc.	47 599	30 672
MX Petroleum Corp.	117 021	98 534
Neste Petroleum (Canada) Inc.	1 698	3 754
Nexen Marketing	0	10 819
North 60 Petro Ltd.	19 990	20 617
North Atlantic Refining Limited	4 437 532	4 661 683
Novacor Chemicals (Canada) Ltd.	112 447	219 950
Olco Oil	175 702	211 724
Péto-Canada Products	354 189	150 297
Petroles Norcan Inc.	481	0
Shell Canada Products Limited	448 286	291 592
Suncor Energy Marketing Inc.	177 199	181 425
Sunoco Inc.	47 472	143 358
Ultramar Canada Inc.	707 540	815 498
White Arrow Service Stations Inc.	466	18 991
<b>Total</b>	<b>14 428 620</b>	<b>18 333 337</b>

(a) Estimates

## C1. Certificates Issued During 2001 Approving the Construction of Gas Pipeline Facilities Exceeding 40 Kilometres in Length

Applicant	Certificate Number	Date Issued	Description	Estimated Cost (\$)
None issued in 2001				

## C2. Orders Issued During 2001 Approving the Construction of Gas Pipeline Facilities Not Exceeding 40 Kilometres in Length

Applicant	Order Number	Date Issued	Description	Estimated Cost (\$)
Westcoast Energy Inc.	XG-W005-01-2001	2001-01-16	Replacement and Lowering of 110 metres of the Montney Pipeline at the St. John Creek Crossing	129,000
Maritimes & Northeast Pipeline Management Ltd.	XG-M124-02-2001	2001-01-23	Construction of Custody Transfer Station Facilities for Semptra at Dartmouth	1.37 million
Maritimes & Northeast Pipeline Management Ltd.	XG-M124-03-2001	2001-01-23	Construction of Custody Transfer Station Facilities for Semptra at New Glasgow	1.23 million
TransCanada PipeLines Limited and TransQuebec & Maritimes Pipeline Inc	XG-T028-04-2001	2001-02-01	Temporary Installation and Operation of a Portable Compressor	1.2 million
Westcoast Energy Inc.	XG-W005-05-2001	2001-02-05	Cold Storage Building - CS-8B Expansion	49,000
Westcoast Energy Inc.	XG-W005-06-2001	2001-02-15	Pipeline Modifications Required for Deactivation of the Aitken Creek Gas Plant	478,000
Westcoast Energy Inc.	XG-W005-07-2001	2001-02-20	Four Projects in the Fort Nelson Field Services Area	305,000
Murphy Canada Exploration Limited	XG-M085-08-2001	2001-02-22	Construction of the Chinchaga Natural Gas Pipeline	4.23 million
Shiha Energy Transmission Ltd.	XG-S056-09-2001	2001-02-23	Construction and Operation of a Vertically Perpendicular Tap	20,000
Westcoast Energy Inc.	XG-W005-10-2001	2001-03-19	Installation of an Above Ground Oil Storage Tank	75,000
Maritimes & Northeast Pipeline Management Ltd.	XG-M124-11-2001	2001-03-23	Construction of Point Tupper Pressure Reducing Station Facilities	2,000,000
Westcoast Energy Inc.	XG-W005-12-2001	2001-03-22	Rock Revetment for 26 AB Mainline - Pouce Coupé River	100,000
Westcoast Energy Inc.	XG-W005-13-2001	2001-04-20	Installation of a New Measurement System	500,000
Maritimes & Northeast Pipeline Management Ltd.	XG-M124-14-2001	2001-05-30	Construction of Custody Transfer Station Facilities for Semptra at Truro, Nova Scotia	1.45 million
TransCanada PipeLines Limited	XG-T001-15-2001	2001-06-13	Construction of Nine Facilities Projects	16,470,333
Sable Offshore Energy Inc.	XG-S165-16-2001	2001-06-21	Installation of Temporary Mono Ethylene Glycol Reclamation Facilities at Goldboro Gas Plant	394,000
TransCanada PipeLines Limited	XG-T001-17-2001	2001-06-20	Replacement of 12 Battery Bank	284,900
Westcoast Energy Inc.	XG-W005-18-2001	2001-07-10	Various Construction Projects	230,000
Westcoast Energy Inc.	XG-W005-19-2001	2001-07-13	Various Construction Projects	1,799,000

## C2. Orders Issued During 2001 Approving the Construction of Gas Pipeline Facilities Not Exceeding 40 Kilometres in Length

Applicant	Order Number	Date Issued	Description	Estimated Cost (\$)
Alta Gas Services Inc.	XG-A169-20-2001	2001-07-11	Construction and Operation of a Sour Service Natural Gas Pipeline	297,000
Maritimes & Northeast Pipeline Management Ltd.	XG-M124-21-2001	2001-07-13	Construction of Custody Transfer Station Facilities at Saint John (North)	946,000
Westcoast Energy Inc.	XG-W005-22-2001	2001-07-18	Kwoen Facilities	95.5 million
Foothills Pipe Lines Ltd.	XG-F006-23-2001	2001-07-27	Year 2001 Minor Capital Projects	3,166,900
Gazoduc Trans Québec & Maritimes Inc.	XG-T028-23-2001	2001-09-06	Addition of a Receipt Point at Sainte-Geneviève-de-Berthier	315,000
Westcoast Energy Inc.	XG-W005-24-2001	2001-08-16	West Nig Pipeline Deactivation - Northeast B.C.	N/A
Foothills Pipe Lines (Saskatchewan) Ltd.	XG-F012-24-2001	2001-09-10	Cathodic Protection Test Lead Installations and Upgrades Zone 9 - Saskatchewan	75,000
TransCanada PipeLines Limited	XG-T001-25-2001	2001-08-16	Drainage Testing Program	370,000
AEC Suffield Gas Pipeline Inc.	XG-A163-25-2001	2001-09-13	New Metering Facilities near Burstall, Saskatchewan	1,189,550
TransCanada PipeLines Limited	XG-T001-26-2001	2001-08-16	Containment and Infrastructure Upgrades (CIU) Program	2,750,000
Westcoast Energy Inc.	XG-W005-27-2001	2001-09-24	Modifications to the Fort St. John Raw Gas Transmission System	320,000
TransCanada PipeLines Limited	XG-T001-28-2001	2001-09-24	Corrosion Remedial Program Projects	9,800,000
Westcoast Energy Inc.	XG-W005-29-2001	2001-09-24	Modifications to the Fuel Meter Filter Vent at Meter Station - 66	31,000
TransCanada PipeLines Limited, B.C. System	XG-T054-30-2001	2001-09-28	Asbestos Removal - Cranbrook Two-Bay Garage	96,000
AltaGas (Sask) Inc.	XG-A092-31-2001	2001-09-28	Revision to Order XG-A169-20-2001	0
TransCanada PipeLines Limited	XG-T001-32-2001	2001-10-12	Site Remediation	461,700
Westcoast Energy Inc.	XG-W005-33-2001	2001-11-16	Pine River Sulphur Pipeline Modifications	0
Murphy Canada Exploration Ltd.	XG-M085-34-2001	2001-11-01	Amendment to Board Order for the Pioneer Gas Plant to Fort St. John	200,000
Westcoast Energy Inc.	XG-W005-35-2001	2001-11-14	Compressor Station 1 Piping Modifications	240,000
Westcoast Energy Inc.	XG-W005-36-2001	2001-12-07	Three Construction Projects	270,000
Westcoast Energy Inc.	XG-W005-37-2001	2001-12-10	Exemption from Order M0-08-2000 for Kwoen Compressor and Processing Facilities	0
Canadian Natural Resources Ltd.	XG-C298-38-2001	2001-12-12	Construction of the Ladyfern Pipeline	8,600,000
Canadian Hunter	XG-C87-82-2001	2001-01-08	Construction of 700 metres of 273.1mm OD Pipeline	272,660
Duke Energy Canada Pipeline Ltd.	XG-D028-83-2001	2001-01-12	Tie-in of the Kaiser Line at Kilometre Post 0.0	0



### C3. Licences and Long-Term Orders to Export Natural Gas as at 31 December 2001

Exporter	Licence or Order Number	Point of Export	Term of Licence or Order		Maximum Volumes		
			From	To	Daily (10 <sup>6</sup> m <sup>3</sup> )	Annual (10 <sup>6</sup> m <sup>3</sup> )	Term (10 <sup>6</sup> m <sup>3</sup> )
Abitibi-Consolidated Corporation	GOL-2-98 <sup>(a)</sup>	Sprague, Man.	1998-03-01	2002-10-31	N/S	N/S	N/S
AG-Energy, L.P.	GL-182	Iroquois, Ont.	1993-11-01 2008-11-01	2008-10-31 2008-12-31	467.0 467.0	170.6 28.5	2 587.0
Alberta Northeast Gas, Limited and AEC Oil and Gas Company	GL-105	Iroquois, Ont.	1991-12-01 1992-11-01 2006-11-01	1992-10-31 2006-10-31 2007-03-31	399.0 533.0 533.0	146.4 194.7 80.5	2 714.0
Alberta Northeast Gas, Limited and ATCOR Ltd.	GL-104	Iroquois, Ont.	1991-12-01 1992-11-01 2006-11-01	1992-10-31 2006-10-31 2007-03-31	790.0 1 057.0 1 057.0	289.9 386.1 159.7	5 428.0
Alberta Northeast Gas, Limited and ProGas Limited	GL-103	Iroquois, Ont.	1991-12-01 1992-11-01 2006-11-01	1992-10-31 2006-10-31 2007-03-31	1 399.0 1 870.0 1 870.0	513.4 683.0 282.6	10 236.0
Alberta Northeast Gas, Limited and TransCanada Pipelines Limited	GL-102	Iroquois & Niagara Falls, Ont. combined maximum	1991-11-01 1992-11-01 2006-11-01	1992-10-31 2006-10-31 2007-02-28	5 830.3 7 790.3 7 790.3	2 139.1 2 845.3 935.5	42 646.0
		Maximum permitted at Iroquois, Ont. as part of combined Iroquois/Niagara Falls volume	1991-11-01 1992-11-01 2006-11-01	1992-10-31 2006-10-31 2007-02-28	5 547.0 7 507.0 7 507.0	2 035.7 2 741.9 901.5	
		Maximum permitted at Niagara Falls, Ont. as part of combined Iroquois/Niagara Falls volume	1991-11-01 2006-11-01	2006-10-31 2007-02-28	283.3 283.3	103.4 34.0	
Amoco Canada Resources Limited and Consolidated Edison Company	GL-127	Niagara Falls, Ont.	1992-04-30 1992-11-01	1992-10-31 2005-10-31	873.0 873.0	160.8 319.0	4 778.0
Androscoggin Energy LLC	GL-283	Cornwall, Ont. East Hereford, Que. Niagara Falls, Ont.	1999-11-01 1999-11-01 1999-11-01	2009-10-31 2009-10-31 2009-10-31	1 242.0 1 242.0 1 242.0	453.4 453.4 453.4	4 534.0
Avista Corporation	GL-204	Kingsgate, B.C.	1999-11-01 2000-11-01 2001-11-01 2002-11-01	2000-10-31 2001-10-31 2002-10-31 2003-10-31	1 563.0 1 145.0 1 201.0 1 258.0	434.0 275.0 290.0 305.0	3 357.0
Bearpaw Energy Inc.	GO-59-96	North Portal, Sask.	1999-03-26	2009-03-01	N/S	N/S	N/S

### C3. Licences and Long-Term Orders to Export Natural Gas as at 31 December 2001

Exporter	Licence or Order Number	Point of Export	Term of Licence or Order		Maximum Volumes		
			From	To	Daily (10 <sup>6</sup> m <sup>3</sup> )	Annual (10 <sup>6</sup> m <sup>3</sup> )	Term (10 <sup>6</sup> m <sup>3</sup> )
BP Canada Energy Company	GL-112	Huntingdon, B.C.	1989-07-24	1989-10-31	704.0	70.4	3 856.0
			1989-11-01	2004-10-31	704.0	257.0	
	GL-176	Emerson, Man.	1992-11-01	2002-10-31	424.9	155.1	1 551.0
Brooklyn Navy Yard Cogeneration Partners, L.P.	GL-232	Iroquois, Ont.	1996-10-01	2011-09-30	750.0	274.0	5 480.0
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	148.8	869.5
Canadian Hunter Exploration Ltd.	GL-107	Iroquois & Niagara Falls, Ont.	1990-11-01	2010-10-31	845.0	254.0	3 381.0
CanWest Gas Supply Inc.	GL-189	Huntingdon, B.C.	1993-01-28	1993-10-31	2 606.0	722.5	11 415.0
			1993-11-01	2003-11-01	2 606.0	952.0	
	GL-218	Huntingdon, B.C.	1993-11-01	2008-10-31	273.2	100.0	1 495.0
Chevron Canada Resources Limited	GL-250	Kingsgate, B.C.	1997-09-01	2012-08-30	585.8	214.4	3 210.0
Chinook Pipeline Company	GOL-4-00 <sup>(b)</sup>	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
Coastal Gas Marketing Company	GL-259	Chippawa, Ont.	1997-11-01	2007-10-31	1 367.5	500	5000
	GL-260	Emerson, Man.	1997-11-01	2007-10-31	199.1	73.0	730.0
	GL-261	Emerson, Man.	1997-11-01	2007-10-31	313.5	114.4	1 144.0
	GL-267	Iroquois, Ont.	1997-11-01	2007-10-31	396.6	145.0	1 450.0
	GL-274	Emerson, Man.	1998-11-01	2008-10-31	864 000.0	316.0	3 160.0
	GL-275	St. Clair, Ont.	1998-11-01	2008-10-31	1 400.0	511.0	5 110.0
CoEnergy Trading Company	GL-276	East Hereford, Que.	1999-03-10	2009-03-09	2 266.2	827.2	8 272.0
		Emerson, Man. combined maximum			2 266.2	827.2	
	GOL-5-98 <sup>(c)</sup>	Emerson, Man.	1998-11-01	2008-10-31	N/S	N/S	N/S
Coral Energy Canada Inc.	GL-120	Emerson, Man.	1989-08-24	1989-10-31	424.9	29.3	2 250.0
			1989-11-01	2001-12-19	424.9	155.1	
	GL-134	Niagara Falls, Ont.	1990-07-27	1990-10-31	450.0	43.7	2 755.0
			1990-11-01	2010-10-31	450.0	145.0	
			2010-11-01	2011-08-31	450.0	95.9	
	GL-180	Monchy, Sask.	1992-08-27	1992-10-31	278.0	18.3	1 014.0
1992-11-01			2001-10-31	278.0	102.0		
2001-11-01			2002-08-26	278.0	83.1		

### C3. Licences and Long-Term Orders to Export Natural Gas as at 31 December 2001

Exporter	Licence or Order Number	Point of Export	Term of Licence or Order		Maximum Volumes		
			From	To	Daily (10 <sup>6</sup> m <sup>3</sup> )	Annual (10 <sup>6</sup> m <sup>3</sup> )	Term (10 <sup>6</sup> m <sup>3</sup> )
	GL-181	Monchy, Sask.	1992-08-27	1992-10-31	580.0	38.3	3 181.0
			1992-11-01	2006-10-31	580.0	212.0	
			2006-11-01	2007-08-26	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
CoWest Energy	GOL-1-97 <sup>(a)</sup>	St. Clair, Niagara, Chippawa, Blue Water, Windsor, Ont. & Emerson, Sask.	1997-02-04	2022-02-03	N/S	N/S	N/S
	GOL-2-97 <sup>(a)</sup>	St. Clair, Niagara, Chippawa, Blue Water, Windsor, Ont. & Emerson, Man.	1997-02-04	2022-02-03	N/S	N/S	N/S
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.	1992-10-29	1992-10-31	171.0	0.5	936.2
			1992-11-01	2006-10-31	171.0	62.4	
Duke Energy Marketing Canada Ltd.	GL-147	Huntingdon, B.C.	1991-01-24	1991-10-31	272.9	76.7	1 843.0
			1991-11-01	1992-10-31	272.9	99.6	
			1992-11-01	2003-10-31	409.4	149.4	
ENCO Gas, Ltd.	GL-203	Huntingdon, B.C.	1993-08-01	1993-10-31	155.1	7.2	3 258.0
			1993-11-01	1994-10-31	429.1	156.6	
			1994-11-01	2008-10-31	601.3	219.5	
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-183	Huntingdon, B.C.	1992-11-01	2002-10-31	273.9	100.0	1 000.3
	GL-225	Huntingdon & Kingsgate, B.C.	1993-12-15	1994-10-31	2 581.5	533.2	13 691.1
			1994-11-01	2004-10-31	2 581.5	1 040.8	
	GL-226	Huntingdon & Kingsgate, B.C.	1993-12-15	1994-10-31	988.6	317.5	4 746.8
			1994-11-01	2004-10-31	988.6	360.8	
	GL-227	Huntingdon & Kingsgate, B.C.	1993-12-15	1994-10-31	570.3	208.2	2 738.6
			1994-11-01	2004-10-31	570.3	208.2	
	GL-267	Iroquois, Ont.	1997-11-01	2007-10-31	396.6	145.0	1 450.0
	GL-282	Emerson, Man.	1998-11-08	2008-11-01	572.0	208.8	2 452.0
	GOL-1-94 <sup>(b)</sup>	Iroquois, Ont. & Niagara Falls, Ont.	1994-03-01	2002-09-15	N/S	N/S	N/S
	GOL-2-94 <sup>(b)</sup>	Huntingdon & Kingsgate B.C.	1994-03-01	2002-09-15	N/S	N/S	N/S
	GOL-3-94 <sup>(b)</sup>	Monchy, Sask. & St. Clair, Ont.	1994-03-01	2002-09-15	N/S	N/S	N/S
	GOL-4-94 <sup>(b)</sup>	Emerson, Man &	1994-03-01	2002-09-15	N/S	N/S	N/S

### C3. Licences and Long-Term Orders to Export Natural Gas as at 31 December 2001

Exporter	Licence or Order Number	Point of Export	Term of Licence or Order		Maximum Volumes		
			From	To	Daily (10 <sup>6</sup> m <sup>3</sup> )	Annual (10 <sup>6</sup> m <sup>3</sup> )	Term (10 <sup>6</sup> m <sup>3</sup> )
	GOL-5-94 <sup>(a)</sup>	Cardston, Alta.	1994-03-01	2002-09-15	N/S	N/S	N/S
	GOL-9-93 <sup>(c)</sup>	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.	1998-11-01	2008-11-01	901.0	329.7	3 296.6
		St. Clair, Ont.	1998-11-01	2008-11-01	901.0	329.7	
		combined maximum					
	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 <sup>(b)</sup>	St. Clair & Windsor, Ont.	1993-12-01	2003-11-30	N/S	N/S	N/S
	GOL-16-93 <sup>(b)</sup>	St. Clair & Windsor, Ont.	1993-12-01	2003-11-30	N/S	N/S	N/S
Husky Oil Operations Ltd.	GL-114	Emerson, Man.	1989-08-24	1989-10-31	424.9	29.3	2 246.4
			1989-11-01	2006-10-31	424.9	155.1	2 556.6
	GL-251	Monchy, Sask.	1995-01-31	1995-10-31	140.0	42.6	460.0
			1995-11-01	2003-10-31	140.0	51.1	
	GL-252	Niagara Falls, Ont.	1995-11-01	2005-10-31	180.0	66.0	660.0
	GL-253	Niagara Falls, Ont.	1995-11-01	2005-10-31	28.0	10.1	101.0
	GL-255	Niagara Falls, Ont.	1995-10-17	1995-10-31	79.3	1.2	265.5
			1995-11-01	2004-10-31	79.3	28.9	
	GL-292	Niagara Falls, Ont.	1998-11-01	2008-11-01	663.0	242.0	2421.0
Imperial Oil Resources Ltd./ Boston Gas Company	GL-294	Iroquois, Ont.	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.	2000-05-01	2004-12-31	N/S	N/S	N/S
Midland Cogeneration Venture Limited Partnership	GOL-9-96 <sup>(d)</sup>	St. Clair, Windsor, Sarnia & Blue Water, Ont.	1996-12-18	2006-12-31	N/S	N/S	N/S
New York State Electric & Gas Corporation	GL-195	Chippawa, Iroquois, & Niagara Falls, Ont. & Napierville, Que.	1993-11-01	2005-10-31	225.0	93.1	1 117.0
			1993-12-01	1994-10-31	283.3	95.0	1 035.0
			1994-11-01	2003-10-31	283.3	103.5	
			2003-11-01	2003-11-30	283.3	8.5	

### C3. Licences and Long-Term Orders to Export Natural Gas as at 31 December 2001

Exporter	Licence or Order Number	Point of Export	Term of Licence or Order		Maximum Volumes		
			From	To	Daily (10 <sup>6</sup> m <sup>3</sup> )	Annual (10 <sup>6</sup> m <sup>3</sup> )	Term (10 <sup>6</sup> m <sup>3</sup> )
Nexen Canada Ltd.	GL-229	Niagara Falls, Ont.	1993-12-15	1994-10-31	708.2	227.5	2 391.1
			1994-11-01	2002-10-31	708.2	258.5	
Nexen Canada Ltd./ Rock-Tenn Company, Mill	GL-290	Philipsburg, Que.	1998-11-01	2008-10-31	61.2	22.3	223.4
Nexen Inc.	GL-177	Emerson, Man.	1992-11-01	2002-10-31	212.5	77.5	775.0
Northern Minnesota Utilities (TCGS)	GL-171	Sprague, Man.	1992-04-30	2002-10-31	917.8	168.9	3 685.0
Ocean Energy, Inc.	GOL-12-95 <sup>(6)</sup>	Loomis & Willow Creek, Sask. & Emerson, Man.	1992-12-01	2002-10-31	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
PanCanadian Petroleum Ltd.	GL-284	Monchy, Sask.	1998-11-01	2008-10-31	4 277.5	1 562.4	15 624.0
	GL-285	Kingsgate, B.C.	1998-11-01	2008-10-31	2 727.0	996.2	9 962.0
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	GL-186	Huntingdon, B.C.	1994-04-01	1994-10-31	409.6	87.5	2 580.9
			1994-11-01	2011-10-31	409.6	150.0	
Pittsfield Generating Company, L.P.	GL-256	Niagara Falls, Ont.	1996-04-01	2011-10-31	895.0	326.7	4 844.3
ProGas Limited	GL-101	Niagara Falls, Ont.	1989-05-01	1989-10-31	1 420.0	260.6	10 340.0
			1989-11-01	2009-10-31	1 420.0	517.0	
	GL-109	Iroquois & Niagara Falls, Ont.	1991-05-01	1991-10-31	708.2	130.3	5 170.0
			1991-11-01	2011-10-31	708.2	258.5	
	GL-129	Niagara Falls, Ont.	1990-07-27	1990-10-31	2 861.1	277.5	19 015.3
			1990-11-01	1992-10-31	2 861.1	1 044.3	
			1992-11-01	2006-10-31	2 521.1	920.2	
			2006-11-01	2013-10-31	2 039.6	744.4	
	GL-161	Iroquois, Ont.	1992-11-01	2010-10-31	708.2	258.4	4 800.4
			2010-11-01	2011-04-30	708.2	128.2	
	GL-178	Niagara Falls, Ont.	1992-11-01	2007-10-31	339.9	124.1	1 861.1
	GL-179	Emerson, Man.	1992-11-01	2002-10-31	212.5	77.5	775.5
	GL-231	Emerson, Man.	1993-11-01	2003-10-31	2 407.9	879.0	8 651.9
	GL-234	Emerson, Man.	1994-05-01	1994-10-31	84.8	15.6	294.3
			1994-11-01	2003-10-31	84.8	31.0	
GL-236	Emerson, Man.	1994-05-01	1994-10-31	304.0	55.9	1 054.6	
		1994-11-01	2003-10-31	304.0	111.0		

### C3. Licences and Long-Term Orders to Export Natural Gas as at 31 December 2001

Exporter	Licence or Order Number	Point of Export	Term of Licence or Order		Maximum Volumes		
			From	To	Daily (10 <sup>6</sup> m <sup>3</sup> )	Annual (10 <sup>6</sup> m <sup>3</sup> )	Term (10 <sup>6</sup> m <sup>3</sup> )
	GL-237	Emerson, Man.	1994-05-01	1994-10-31	95.9	17.7	332.8
			1994-11-01	2003-10-31	95.9	35.0	
	GL-238	Emerson, Man.	1994-05-01	1994-10-31	313.8	57.7	1 088.5
			1994-11-01	2003-10-31	313.8	114.5	
	GL-240	Emerson, Man.	1994-05-01	1994-10-31	187.4	34.5	581.7
			1994-11-01	2002-10-31	187.4	68.4	
	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 <sup>0</sup>	Chippawa, Ont.	1993-11-01	2008-10-31	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.	1992-11-01	2007-10-31	651.5	237.8	3 685.9
			2007-11-01	2008-10-30	651.5	117.9	
Selkirk Cogen Partners, L.P. & Atcor 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.	1995-03-01	2004-10-31	805.0	196.0	2 940.0
	GOL-13-92 <sup>0</sup>	Chippawa, Ont.	1993-02-01	2014-12-31	N/S	N/S	N/S
St. Lawrence Gas Company, Inc.	GL-264	Cornwall & Iroquois, Ont.	1996-11-01	1997-06-30	574.3	106.2	637.2
			1997-07-01	1997-10-31	531.8	98.0	484.3
			1997-10-01	2002-10-31	531.8	30.6	
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

### C3. Licences and Long-Term Orders to Export Natural Gas as at 31 December 2001

Exporter	Licence or Order Number	Point of Export	Term of Licence or Order		Maximum Volumes		
			From	To	Daily (10 <sup>9</sup> m <sup>3</sup> )	Annual (10 <sup>6</sup> m <sup>3</sup> )	Term (10 <sup>6</sup> m <sup>3</sup> )
Tennessee Gas Pipeline Company	GOL-11-92 <sup>(o)</sup>	Niagara Falls	1992-11-01	2002-10-31	N/S	N/S	N/S
TransCanada Gas Marketing	GL-172	Philipsburg, Que.	1992-04-30	1992-10-31	906.0	166.7	4 980.0
			1992-11-01	2006-10-31	906.0	332.0	
TransCanada Pipelines Limited	GL-187	Emerson, Man.	1992-08-27	1992-10-31	2 785.0	183.8	12 035.0
			1992-11-01	2005-10-31	2 785.0	875.0	
	GOL-2-91 <sup>(m)</sup>	Emerson, Man.	1991-11-01	2005-10-31	N/S	N/S	N/S
TransCanada Energy Limited	GL-83	Niagara Falls, Ont.	1986-11-01	2002-10-31	2 620.3	959.0	16 371.0
			2002-11-01	2003-01-15	2 620.3	199.1	
			2003-01-06	2004-01-15	2 620.3	959.0	
	GL-110	Iroquois & Niagara Falls, Ont.	1991-05-01	1991-10-31	708.2	130.3	5 443.2
			1991-11-01	2012-10-31	708.2	258.5	
	GL-121	Emerson, Man.	1989-08-24	1989-10-31	424.9	29.3	2 326.5
			1989-11-01	2003-10-31	424.9	155.1	
	GL-122	Emerson, Man.	1989-08-24	1989-10-31	424.9	29.3	2 326.5
			1989-11-01	2004-10-31	424.9	155.1	
	GL-128	Cornwall, Ont.	1990-07-27	1990-10-31	331.0	32.1	1 820.0
			1990-11-01	2005-10-31	331.0	121.3	
	GL-136	Niagara Falls, Ont.	1992-08-27	1992-10-31	2 125.0	140.3	9 307.5
			1992-11-01	2002-10-31	2 125.0	775.6	
	GL-137	Niagara Falls, Ont.	1990-11-08	1991-10-31	1 371.1	450.5	5 593.8
			1991-11-01	2000-10-31	1 371.1	459.3	
			2000-11-01	2002-10-31	1 371.1	500.4	
	GL-141	Emerson, Man.	1990-11-08	1991-10-31	424.9	152.1	2 326.5
			1991-11-01	2005-10-31	424.9	155.1	
	GL-163	Niagara Falls, Ont.	1992-11-01	2007-10-31	283.0	103.7	1 552.0
	GL-175	Iroquois, Ont.	1992-08-27	1992-10-31	1 445.0	95.4	7 910.0
			1992-11-01	2005-10-31	1 445.0	529.0	
	GL-200	Niagara Falls, Ont.	1994-02-01	1994-10-31	509.0	139.6	2 800.0
			1994-11-01	2008-10-31	509.0	186.6	
			2009-11-01	2009-01-31	509.0	47.0	
	GL-242	Emerson, Man.	1994-05-01	1994-10-31	2 533.0	467.3	8 811.5
			1994-11-01	2003-10-31	2 533.0	927.0	
	GL-243	Emerson, Man.	1994-05-01	1994-10-31	776.0	142.7	2 689.5
1993-11-01			2010-10-31	504.1	184.0		
1994-11-01			2003-10-31	776.0	283.0		
GL-244	Emerson, Man.	1994-05-01	1994-10-31	752.0	138.6	2 613.9	
		1994-11-01	2003-10-31	752.0	275.0		
GL-245	Emerson, Man.	1994-05-01	1994-10-31	337.0	43.7	824.1	
		1994-11-01	2003-10-31	337.0	86.7		
GL-246	Emerson, Man.	1994-05-01	1994-10-31	210.0	38.7	730.0	
GL-248	Kingsgate, B.C.	1996-08-01	2011-07-31	841.5	307.1	4 606.9	
GL-249	Kingsgate, B.C.	1996-08-01	2011-07-31	420.7	153.5	2 303.2	

### C3. Licences and Long-Term Orders to Export Natural Gas as at 31 December 2001

Exporter	Licence or Order Number	Point of Export	Term of Licence or Order		Maximum Volumes		
			From	To	Daily (10 <sup>6</sup> m <sup>3</sup> )	Annual (10 <sup>6</sup> m <sup>3</sup> )	Term (10 <sup>6</sup> m <sup>3</sup> )
	GOL-3-92 <sup>(n)</sup>	Emerson, Man.	1992-03-01	2012-02-29	10 000.0	3 650.0	N/S
	GOL-17-92 <sup>(a)</sup>	Fort Frances, Ont.	1992-12-01	2002-10-31	N/S	N/S	N/S
Union Gas Limited	GOL-15-93 <sup>(a)</sup>	Sprague, Man.	1993-12-01	2018-11-30	N/S	N/S	N/S
	GOL-5-97 <sup>(o)</sup>	St. Clair, Windsor, Sarnia, & Blue Water, Ont.	1997-06-25	2002-06-24	N/S	N/S	N/S
	GOL-6-97 <sup>(o)</sup>	Emerson, Man. & Monchy, Sask.	1997-06-25	2002-06-24	N/S	N/S	N/S
United States Gypsum Company	GL-273	Emerson, Man.	1997-11-01	2007-11-01	382.4	139.6	1 395.8
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-183	Huntingdon, B.C.	1994-04-28	2002-10-31	273.9	100.0	1 000.3
	GL-282	Emerson, Man.	1998-11-01	2001-10-31	572.0	208.8	2 452.0
			2001-11-01	2008-10-31	715.0	261.0	

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



## C4. Licences and Long-Term Orders to Import Natural Gas as at 31 December 2001

Importer	Licence or Order Number	Point of Import	Term of Licence or Order		Maximum Volumes		
			From	To	Daily (10 <sup>9</sup> m <sup>3</sup> )	Annual (10 <sup>6</sup> m <sup>3</sup> )	Term (10 <sup>6</sup> m <sup>3</sup> )
Abitibi-Consolidated Corporation	GOL-2-98 <sup>(a)</sup>	Rainy River, Ont.	1998-01-03	2002-10-31	N/S	N/S	N/S
Chinook Pipeline Company	GOL-4-00 <sup>(b)</sup>	Loomis, Sask.	2000-11-03	2010-11-02	N/S	N/S	N/S
CoWest Energy	GOL-1-97 <sup>(c)</sup>	Chippawa, Niagara, St. Clair, Windsor, & Blue Water, Ont.	1997-02-04	2022-02-03	N/S	N/S	N/S
	GOL-2-97 <sup>(d)</sup>	Chippawa, Niagara, St. Clair, Windsor, & Blue Water, Ont.	1997-02-04	2022-02-03	N/S	N/S	N/S
Engage Energy Canada, L.P.	GOL-1-94 <sup>(e)</sup>	Windsor & St. Clair, Ont.	1994-03-01	2002-09-15	N/S	N/S	N/S
	GOL-2-94 <sup>(e)</sup>	Huntingdon, B.C.	1994-03-01	2002-09-15	N/S	N/S	N/S
	GOL-3-94 <sup>(e)</sup>	Windsor & St. Clair, Ont.	1994-03-01	2002-09-15	N/S	N/S	N/S
	GOL-4-94 <sup>(e)</sup>	Windsor & St. Clair, Ont.	1994-03-01	2002-09-15	N/S	N/S	N/S
	GOL-5-94 <sup>(e)</sup>	Willow Creek, Sask.	1994-03-01	2002-09-15	N/S	N/S	N/S
	GOL-9-93 <sup>(e)</sup>	St. Clair, Ont.	1997-01-01	2008-03-31	N/S	N/S	N/S
Gaz Métropolitain, Inc.	GOL-14-93 <sup>(e)</sup>	St. Clair & Windsor, Ont.	1993-12-01	2003-11-30	N/S	N/S	N/S
	GOL-16-93 <sup>(e)</sup>	Windsor & St. Clair, Ont.	1993-12-01	2003-11-30	N/S	N/S	N/S
Midland Cogeneration Venture Limited Partnership	GOL-9-96 <sup>(m)</sup>	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 <sup>(h)</sup>	Willow Creek, Sask.	1995-09-22	2008-12-31	N/S	N/S	N/S
Rochester Gas and Electric Corporation	GOL-12-92 <sup>(o)</sup>	Sarnia, Ont.	1993-11-01	2008-10-31	N/S	N/S	N/S
Sithe/Independence Power Partners, L.P.	GOL-13-92 <sup>(o)</sup>	Sarnia & Windsor, Ont.	1993-02-01	2014-12-31	N/S	N/S	N/S
Tennessee Gas Pipeline Company	GOL-11-92 <sup>(p)</sup>	St. Clair, Ont.	1992-11-01	2002-09-30	N/S	N/S	N/S
TransCanada Energy Limited	GOL-17-92 <sup>(n)</sup>	Rainy River, Ont.	1992-12-01	2002-10-31	N/S	N/S	N/S
	GOL-3-92 <sup>(h)</sup>	Sarnia & St. Clair, Ont.	1992-03-01	2012-02-29	10 000.0	3 650.0	N/S
TransCanada Pipelines Limited	GOL-2-91 <sup>(o)</sup>	Sarnia & SS Marie, Ont.	1991-11-01	2005-10-31	N/S	N/S	N/S
Union Gas Limited	GOL-15-93 <sup>(a)</sup>	Rainy River	1993-12-01	2018-11-30	N/S	N/S	N/S
	GOL-5-97 <sup>(a)</sup>	St. Clair, Windsor, Sarnia, & Blue Water, Ont.	1997-06-25	2002-06-24	N/S	N/S	N/S
	GOL-6-97 <sup>(a)</sup>	SS Marie, Windsor, Sarnia, & Blue Water, Ont.	1997-06-25	2002-06-24	N/S	N/S	N/S

(a) This order authorizes the re-import of natural gas that was exported near Sprague, Man.

(b) This order authorizes an import of natural gas for subsequent export near Emerson, Man. or Niagara Falls, Ont. or Monchy, Sask.

(c) This order authorizes an import of natural gas for subsequent export near St. Clair, Niagara, Chippawa, Blue Water, Windsor, Ont. and Emerson, Man.

(d) This order authorizes the re-import of natural gas that was exported near St. Clair, Niagara, Chippawa, Blue Water, Windsor, Ont. and Emerson, Man.

(e) This order authorizes an import of natural gas for subsequent export near Iroquois and Niagara Falls, Ont.

#### C4. Licences and Long-Term Orders to Import Natural Gas as at 31 December 2001

- (f) This order authorizes the re-import of natural gas that was exported near Kingsgate, B.C.
- (g) This order authorizes the re-import of natural gas that was exported near Monchy, Sask. and St. Clair, Ont.
- (h) This order authorizes an import of natural gas for subsequent export near Emerson, Man.
- (i) This order authorizes the re-import of natural gas that was exported near Cardston, Alta.
- (j) This order authorizes the import of natural gas for subsequent export near St. Clair, Ont.
- (k) This order authorizes an import of natural gas for subsequent export near St. Clair and Windsor, Ont.
- (l) This order authorizes the re-import of natural gas that was exported near St. Clair and/or Windsor, Ont.
- (m) This order authorizes an import of natural gas for subsequent export near St. Clair, Windsor, Sarnia, and Blue Water, Ont.
- (n) This order authorizes an import of natural gas for subsequent export near Fort Francis, Ont.
- (o) This order authorizes an import of natural gas for subsequent export near Chippawa, Ont.
- (p) This order authorizes an import of natural gas for subsequent export near Chippawa, Ont.
- (q) This order authorizes the import of natural gas for subsequent export near Monchy, Sask. and St. Clair, Windsor, Sarnia, and Blue Water, Ont.
- (r) This order authorizes the import of natural gas for subsequent export near Emerson, Man., Monchy, Sask. and St. Clair, Windsor, Sarnia, and Blue Water, Ont.
- N/S Not Specified

#### C5. Natural Gas Exports by Export Point - 1997 to 2001

*(million cubic metres)*

Export Point	1997	1998	1999	2000	2001
Huntingdon	10 455	11 979	11 379	10 090	9 167
Kingsgate	23 985	24 187	22 835	23 588	22 113
Monchy	15 451	15 815	21 912	22 218	21 087
Emerson	12 122	13 737	14 345	13 902	11 077
Niagara Falls	8 147	8 637	10 234	11 973	9 227
Iroquois	8 564	9 006	10 121	10 280	9 042
Other	4 078	4 778	4 714	9 663	23 903
<b>Total</b>	<b>82 803</b>	<b>88 139</b>	<b>95 540</b>	<b>101 714</b>	<b>105 616</b>

## C6. Total Net Exports of Propane and Butanes - 2000 and 2001

(cubic metres)

Exporter	Propane		Butanes	
	2000 Actual	2001 Preliminary	2000 Actual	2001 Preliminary
BP Canada Energy Company	3 528 223	3 214 858	1 181 068	1 018 900
Burnwell Gas of Canada, Ltd.	144 477	137 576	N/A	N/A
Canada Imperial Oil Limited	583 939	426 284	54 087	25 494
CANPET Energy Group Inc.	174 370	192 478	17 710	14 145
Canadian Enterprise Gas Products Ltd.	114 775	113 761	0	0
Centennial Gas Liquids, L.L.C.	10 271	5 744	N/A	3 344
Chevron Standard Ltd.	168 421	27 014	N/A	N/A
Coast Energy Canada Inc.	31 130	20 531	351	599
Conoco Canada Limited	414 675	422 050	231 251	187 225
Consumers' Co-operative Refineries Limited	3 304	104	0	0
Country Energy, LLC	126 450	75 379	N/A	N/A
Dow Chemical Canada Inc.	63 144	0	0	0
Dynegy Midstream Services, L.P.	96 514	99 806	8 625	17 650
Elbow River Resources Ltd.	78 695	59 204	102 257	98 782
ETI Energy Transportation Inc.	72 755	18 807	0	0
ExxonMobil Canada Energy	0	11 705	0	0
Factor Gas Liquids Inc.	51 451	52 985	31 187	26 984
Ferrell North America	159 103	135 726	N/A	N/A
Foster Energy	0	4 604	0	0
Gas Supply Resources, Inc.	614 763	657 999	N/A	73 593
Great Western Resources Inc.	7 786	5 125	0	0
Gulf Midstream Services	74 307	0	4 992	0
Irving Oil Limited	26 768	163 480	0	0
KeySpan Energy Canada Inc.	0	96 871	0	0
Kinetic Resources (LPG)	940 042	527 572	277 423	139 062
Link Petroleum Services Ltd.	13 065	4 931	109	0
M-P Energy	182 265	130 266	0	0
MAPCO Canada Energy Inc.	67 827	0	0	0
Marathon Ashland Petroleum LLC	N/A	N/A	19 444	0
Mobil Oil Canada Properties	11 195	0	0	0
Mobil Oil Canada	55 277	0	0	0
NGL Supply Co. Ltd.	366 382	330 732	148 569	116 009
Petro Canada Hydrocarbons	149 864	0	57 171	0
Petro Canada (U.S.A) Inc.	124 403	91 928	N/A	N/A
Petrogas Marketing Ltd.	98 555	105 751	16 074	12 665
Pétromont, société en commandite	27 436	22 902	0	0
Quadra Energy Trading Ltd.	113 225	56 445	12 798	15 685
Resource Energy Marketing Ltd.	57 743	55 666	0	1 307
Shell Canada Limited	241 311	206 071	62 169	103 624
Stittco Energy Limited	22 012	17 627	N/A	N/A
Sunoco Inc.	106 400	102 200	0	60 105
Texaco Natural Gas Liquids	31 275	10 991	222 044	178 446
TransCanada Gas Liquids	187 092	0	0	0
Triangle Three Service Ltd.	1 632	1 450	N/A	N/A
Ultramar Limited	72	0	0	0
Western Gas Liquids Canada	15 484	7 778	5 429	15 225
Williams Energy (Canada), Inc.	0	61 954	0	0
Williams Energy Marketing & Trading Company	130 932	411 760	12 619	16 579
<b>Total</b>	<b>9 488 810</b>	<b>8 088 115</b>	<b>2 465 377</b>	<b>2 125 423</b>

N/A: not applicable

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

2001 <sup>(a)</sup>	Enbridge Pipelines Inc.	Trans Mountain Pipeline Company Ltd. <sup>(b)</sup>	Trans-Northern Pipelines Inc.
<b>Operations (\$000)</b>			
Revenues	540,485	115,278	30,946
<b>Expenses</b>			
Depreciation	99,149	15,740	3,143
Fuel & Power	49,274	4,977	3,621
Operating & Maintenance	148,841	59,187	16,514 <sup>(g)</sup>
Other (including taxes)	133,895 <sup>(c)</sup>	-	3,218 <sup>(h)</sup>
<b>Net Income</b>	<b>109,326<sup>(d)</sup></b>	<b>16,078</b>	<b>4,450</b>
<b>Throughput Statistics</b>			
Throughput (m <sup>3</sup> /day)	284 700	32 417	31 770
Throughput-Km (10 <sup>3</sup> m <sup>3</sup> *km)	80 742 854	11 983 544	1 586 641
<b>Performance Statistics</b>			
Average Revenue (\$/m <sup>3</sup> )	5.20	9.72	2.67
Revenue per m <sup>3</sup> - km (\$)	0.01	0.01	0.02
Expenses per m <sup>3</sup> - km (\$)	<0.01 <sup>(e)</sup>	<0.01	0.01
Net Income over/(under) Earnings Threshold (\$000)	6,208	4,973	1,353
Negotiated Incentives (\$000)	7,161	4,735	1,168 <sup>(i)</sup>
Other Adjustments (\$000)	87,872 <sup>(f)</sup>	(1,831)	564

(a) Data based on preliminary actuals and estimates

(b) These are last year's numbers. Trans Mountain has indicated that it does not wish to provide this information. At the time of publication, the Board was in the process of dealing with Trans Mountain's request that it not provide this information for use in the public domain.

(c) Includes interest expense, investment and other income and income taxes

(d) Net income after shipper sharing

(e) Sum of Fuel and Power and Operating and Maintenance Expenses, divided by Throughput - Km statistics

(f) Sum of 2001 starting point inflation adjustment, miscellaneous variances, cost performance benefit sharing and interim toll adjustment

(g) Operating and Maintenance is the sum of maintenance, transportation, administration and other expenses except depreciation and power.

(h) Calculated by NEB (equals Revenues minus listed expenses)

(i) Sum of shippers' share of all the incentives (to be deducted from the following year's revenue requirement)

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

2001 <sup>(a)</sup>	Cochin Pipe Lines Ltd	Enbridge Pipelines (NW) Inc.
<b>Revenue Requirement (\$000)</b>		
Cost of Debt	7,469	2,578
Return on Equity	4,319	9,065
Depreciation	-	8,680
Fuel & Power	2,636	997
Wages & Benefits	2,007	2,298
Other Operating & Maintenance	7,733	7,684
Other	-	25 <sup>(c)</sup>
Income Taxes	1,800	7,088
Other Taxes	1,682	356
<b>Total</b>	<b>27,646</b>	<b>38,771</b>
<b>Return on Common Equity (%)</b>		
Approved	n/a <sup>(b)</sup>	9.61%
Actual	3.93% <sup>(b)</sup>	9.61%
<b>Utility Rate Base (\$000) at 31 December 2001</b>		
Net Plant in Service	107,917	165,133
Working Capital	2,773	915
Other	-	5,409 <sup>(d)</sup>
<b>Total</b>	<b>110,690</b>	<b>171,457</b>
<b>Capitalization of Rate Base (\$000)</b>		
Debt	-	56,246
Deferred Taxes	-	20,910
Common Equity	110,690	94,301
<b>Total</b>	<b>110,690</b>	<b>171,457</b>
<b>Annual Throughput (10<sup>3</sup>m<sup>3</sup>)</b>	<b>3 796</b>	<b>1 758</b>

(a) Data may be based on preliminary estimates.

(b) Return based on a semi-depreciated rate base and a formula return on equity, pursuant to Board Order RH-5-80

(c) Includes other revenue and amortization of Shipper Underpayment

(d) Includes average construction in progress; inventory; equity portion of 1985 shipper underpayment; and unamortized debt redemption and issuance costs

### D3. Financial Information - Group 1 Gas Pipeline Companies

2001 <sup>(a)</sup>	TransCanada PipeLines Limited (B.C. System)	Foothills Pipe Lines Ltd.	TransCanada PipeLines Limited (Mainline System)	Trans Québec & Maritimes Inc.	Westcoast Energy Inc.	Maritimes & Northeast Pipelines	Alliance Pipeline
<b>Revenue Requirement (\$000)</b>							
Cost of Debt	11,221	36,813	569,509	25,087	-	42,769	129,079
Return on Equity	4,196	23,202	263,696	16,054	-	28,727	96,578
Preferred Dividends	-	-	-	-	-	-	-
Depreciation	11,048	43,417	341,038	22,171	-	37,182	95,000
Fuel & Power	4,587	16,533	74,497	1,479	-	-	- <sup>(c)</sup>
Wages & Benefits	5,605	4,138	71,001	5,206	-	4,317	- <sup>(c)</sup>
Other Operating & Maintenance	12,615	19,557	137,775	4,533	-	2,162	51,732
Transmission by Others	25,682	-	376,568	-	-	2,227	908
NEB Cost Recovery	1,527	3,933	9,756	630	-	737	1,830
Other	-	1,032	(8,483)	-	-	(960)	(4,465)
Income Taxes	426	(1,068)	117,754	13,131	-	2,122	10,359
Other Taxes	3,191	11,730	110,608	4,763	-	19,823	12,824
Special Charge	-	7,409	-	-	-	517	-
<b>Total</b>	<b>80,098</b>	<b>166,697</b>	<b>2,063,719</b>	<b>93,054</b>	<b>613,000<sup>(b)</sup></b>	<b>139,623</b>	<b>393,844</b>
<b>Return on Common Equity (%)</b>							
Approved	9.61%	9.61%	9.61%	9.61%	-	13.00%	11.30%
Actual	6.86%	9.61%	10.01%	10.21%	14.40%	11.40%	n/a <sup>(d)</sup>
<b>Capitalization of Rate Base (\$000) on 31 December 2001</b>							
Debt	138,555	546,988	6,348,289	359,376	1,602,000	702,814	1,823,156
Preferred Equity	-	-	-	-	-	-	-
Common Equity	59,381	284,526	2,720,696	154,018	863,000	244,977	-
Partnership Revenue	-	-	-	-	-	-	781,353 <sup>(e)</sup>
IROR One Time Adjustment	-	5,720	-	-	-	-	-
<b>Total</b>	<b>197,936</b>	<b>837,234</b>	<b>9,068,985</b>	<b>513,394</b>	<b>2,465,000</b>	<b>947,791</b>	<b>2,604,509</b>

(a) Data may be based on preliminary estimates.

(b) Tolls set by formula as per negotiated settlement where breakdown of revenue requirement is irrelevant

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

(d) Preliminary estimate not available

(e) Partnership Capital used in place of Common Equity

**E1. Certificates and Permits Issued During 2001 for International Power Lines**

No Certificate or Permit was issued during 2001 for International Power Lines.

**E2. Amending Orders Issued During 2001 for International Power Lines**

<u>Applicant</u>	<u>Order Number</u>	<u>Issued</u>	<u>Comments</u>
WPS Power Development Inc.	AO-3-EC-III-2	2001-08-01	Transfer of Certificate from PDI Canada Inc. to WPS Power Development Inc.
	AO-2-EC-III-3	2001-08-01	

**E3. Revoking Orders Issued During 2001 for International Power Lines**

No Revoking Order was issued during 2001 for International Power Lines.

**E4. Licences Issued During 2001 for the Export of Electricity**

No Licence was issued during 2001 for International Power Lines.

## E5. Permits and Orders Issued During 2001 for the Export of Electricity

### E5a. Permits Issued

Applicant	Permit No.	Class	Kilowatts	Annual Megawatt Hours	From	Term To	Issued
NRG Power Marketing	EPE-171	Interruptible	-	1 000 000	2001-01-25	2011-01-24	2001-01-25
	EPE-172	Firm	1 000 000	2 000 000	2001-01-25	2011-01-24	2001-01-25
Coral Energy	EPE-173	Interruptible	-	5 000 000	2001-01-25	2011-01-24	2001-01-25
	EPE-174	Firm	1 000 000	5 000 000	2001-01-25	2011-01-24	2001-01-25
El Paso Energy	EPE-175	Interruptible	-	5 000 000	2001-06-20	2011-06-19	2001-06-20
	EPE-176	Firm	1 000 000	5 000 000	2001-06-20	2011-06-19	2001-06-20
Independent Electricity Market Operator	EPE-177	Emergency	4 000 000	23 360 000	2001-07-10	2006-07-09	2001-07-10
BP Canada	EPE-178	Interruptible	-	5 000 000 <sup>(a)</sup>	2001-07-12	2011-07-11	2001-07-12
	EPE-179	Firm	1 000 000	5 000 000	2001-07-12	2011-07-11	2001-07-12
PanCanadian Energy	EPE-182	Interruptible	-	5 000 000	2001-07-18	2011-07-17	2001-07-18
	EPE-183	Firm	1 000 000	5 000 000	2001-07-18	2011-07-17	2001-07-18
BC Hydro	EPE-192	Interruptible	-	-	2001-09-25	2009-01-31	2001-09-25
	EPE-193	Firm	-	-	2001-09-25	2009-01-31	2001-09-25

(a) Total exports shall not exceed 500 000 GW.h less any amounts under Permit EPE-179.

### E5b. Amending Orders Issued During 2001 Relating to Export Licences and Export Permits

Applicant	Order No.	Issued	Comments
Ontario Power Generation	AO-63-EPE-21	2001-02-09	Addition of a customer
Ontario Power Interconnected Markets Inc.	AO-64-EPE-21	2001-03-13	Deletion of a customer
	AO-65-EPE-21	2001-12-06	Transfer of Permit from Ontario Power Generation Inc. and Ontario Hydro Interconnected Markets to Ontario Power Generation/Ontario Power Interconnected Markets Inc.
Mirant Americas Energy Marketing, L.P.	AO-1-EPE-142	2001-03-13	Transfer of Permits from Southern Co LP to Mirant Americas Energy Marketing, L.P.
	AO-1-EPE-143	2001-03-13	
Dynergy Canada Inc.	AO-1-EPE-80	2001-03-28	Transfer of Permits from Destec Power Services Inc. to Dynergy Canada Inc.
	AO-1-EPE-81	2001-03-28	
IDACORP Energy L.P.	AO-1-EPE-163	2001-06-05	Transfer of Permits from Idaho Power Company to IDACORP Energy Solutions LP Transfer of Permits from IDACORP Energy Solutions LP to IDACORP Energy L.P.
	AO-1-EPE-164	2001-06-05	
	AO-2-EPE-163	2001-08-03	
	AO-2-EPE-164	2001-08-03	
Enmax Energy Marketing Inc.	AO-1-EPE-169	2001-06-22	Transfer of Permits from Enmax Energy Corporation to Enmax Energy Marketing Inc.
	AO-1-EPE-170	2001-06-22	
Abitibi Consolidated	AO-2-EPE-75	2001-08-28	Transfer of Permit from Stone Consolidated Corporation to Abitibi Consolidated
NorthPoint Energy Solutions	AO-1-EPE-88	2001-12-20	Transfer of Permit from SaskPower to NorthPoint Energy Solutions
	AO-1-EPE-89	2001-12-20	



E5c. Revoking Orders Issued During 2001 Relating to Export Licences and Export Permits

Applicant	Order No.	Issued	Comments
BC Hydro	EPE-124	2001-05-14	Quashed by Federal Court of Appeal; result of 14-Mar-01 decision Docket A-331-99. NEB did not actually revoke the permit.
	EPE-125	2001-05-14	

**E6. Electricity Exports - 2001**  
**(Megawatt Hours)**

Exporter	Permit/ Licence Number	Permit/Licence Limit		Gross Energy Exported			Value of Export (\$)	
		Firm	Interruptible	Firm	Interruptible	Exchange <sup>(a)</sup>	Firm	Interruptible
<b>NEW BRUNSWICK</b>								
Constellation Power	EPE-138	-	1 752 000	-	18 600	-	-	29,107
Source Inc.	EPE-139	5 256 000 <sup>(b)</sup>	-	18 600	-	-	29,107	-
Fraser Paper Inc. (Canada)	EPE-147	400 000	-	330 450	-	-	22,160,861	-
New Brunswick Power Corporation	EPE-17	250 000	-	-	-	29 519	-	-
	EPE-28	1 000	-	47	-	-	5,645	-
	EPE-47	175 200	-	81 012	-	1 193	6,754,882	-
	EPE-48	-	32 000	-	-	-	-	-
	EPE-90	6 482 000 <sup>(c)</sup>	-	237 798	-	8 858	17,622,833	-
	EPE-91	-	6 482 000 <sup>(c)</sup>	-	2 732 164	69 252	-	199,399,276
EPE-148	2 000 000	-	1 353	-	-	-	58,158	-
PDI Canada Inc.	EL-177	200 000	-	2 855	-	-	121,756	-
WPS Power Development Inc.	EL-177	200 000	-	51 286	-	-	1,467,545	-
<b>TOTAL</b>				<b>723 401</b>	<b>2 750 764</b>	<b>108 822</b>	<b>48,220,787</b>	<b>199,428,383</b>
<b>NOVA SCOTIA</b>								
Nova Scotia Power Inc.	EPE-122	-	1 200 000 <sup>(d)</sup>	-	-	-	-	-
	EPE-123	1 200 000 <sup>(d)</sup>	-	350	-	-	17,581	-
<b>TOTAL</b>				<b>350</b>	<b>0</b>	<b>0</b>	<b>17,581</b>	<b>0</b>

## E6. Electricity Exports - 2001

(Megawatt Hours)

Exporter	Permit/ Licence Number	Permit/Licence Limit		Gross Energy Exported			Value of Export (\$)	
		Firm	Interruptible	Firm	Interruptible	Exchange <sup>(a)</sup>	Firm	Interruptible
<b>QUEBEC</b>								
Énergie Maclaren Inc.	EPE-111	-	8 760 000 <sup>(e)</sup>	-	-	-	-	-
	EPE-112	8 760 000	-	427 919	-	-	22,825,592	-
Hydro-Québec	EL-151	-	11 000 000	-	-	-	-	-
	EL-156	25 000	-	-	-	-	-	-
	EL-165*	-	3 000 000	-	-	-	-	-
	EL-166	-	4 000 000	-	-	-	-	-
	EL-176	9 000 000	-	1 448 422	-	-	64,057,511	-
	EL-180	1 402 000	-	1 127 264	-	-	113,489,365	-
	EL-181	400 000	-	191 538	-	-	18,732,509	-
	EL-182	406 000	-	173 392	-	-	16,896,459	-
	EL-183	540 000	-	302 222	-	-	30,427,626	-
	EL-184	406 000	-	199 405	-	-	20,571,190	-
	EL-185	7 028 000	-	-	-	-	-	-
	EPE-20	27 331	-	1 114	-	-	78,627	-
	EPE-64	-	30 000 000 <sup>(f)</sup>	-	9 152 419	102 350	-	492,830,253
	EPE-65	20 000 000 <sup>(g)</sup>	-	961 601	-	-	82,169,099	-
Marketing D'Énergie HQ Inc.	EPE-129	-	30 000 000 <sup>(h)</sup>	-	834 506	-	-	66,189,779
	EPE-130	30 000 000 <sup>(h)</sup>	-	-	-	-	-	-
Montwegan International Energia Resorce Inc.	EPE-108	-	8 760 000 <sup>(i)</sup>	-	-	-	-	-
	EPE-109	8 760 000 <sup>(i)</sup>	-	-	-	-	-	-
Tractebel Energy Marketing Inc.	EPE-86	-	8 760 000 <sup>(j)</sup>	-	-	-	-	-
	EPE-87	8 760 000	-	-	-	-	-	-
<b>TOTAL</b>				<b>4 832 877</b>	<b>9 986 925</b>	<b>102 350</b>	<b>369,247,978</b>	<b>559,020,032</b>
<b>ONTARIO</b>								
Abitibi-Consolidated Inc.	EPE-75	-	175 000	-	-	-	-	-
Canadian Niagara Power Company Limited	EPE-84	656 000	-	351 520	-	-	17,438,705	-
	EPE-149	250 000 <sup>(k)</sup>	-	-	-	-	-	-
	EPE-150	-	250 000 <sup>(k)</sup>	-	-	-	-	-
The Canadian Transit Company	EPE-29	50	-	-	-	-	-	-
Coral Energy Canada Inc.	EPE-173	5 000 000	-	-	-	-	-	-
	EPE-174	-	5 000 000	-	-	-	-	-
The Detroit and Windsor Subway Company	EPE-26	5 000	-	1 605	-	-	0	-
Independent Electricity Market Operator	EPE-22	-	10 000 000	-	-	1 775 383	-	-
	EPE-177	-	23 360 000	-	-	-	-	-
Ontario Hydro Networks Company Inc.	EPE-25	200	-	34	-	-	4,459	-
Ontario Power Generation Inc.	EPE-24	15 000	-	223	-	-	445	-
	EPE-110	150	-	-	-	-	-	-

## E6. Electricity Exports - 2001

### (Megawatt Hours)

Exporter	Permit/ Licence Number	Permit/Licence Limit		Gross Energy Exported			Value of Export (\$)	
		Firm	Interruptible	Firm	Interruptible	Exchange <sup>(a)</sup>	Firm	Interruptible
Ontario Power Generation Inc. and Ontario Hydro Interconnected Markets Inc.	EPE-21	-	25 000 000	-	3 021 158	69 030	-	184,334,744
St. Clair Tunnel Company	EPE-70	6	-	-	-	-	-	-
<b>TOTAL</b>				<b>353 382</b>	<b>3 021 158</b>	<b>1 844 413</b>	<b>17,443,609</b>	<b>184,334,744</b>
<b>MANITOBA</b>								
Manitoba Hydro	EL-170	3 405 000	-	3 229 666	-	-	180,191,257	-
	EPE-33	883 000	-	133 788	-	-	7,181,377	-
	EPE-34	663 000	-	99 200	-	-	9,588,096	-
	EPE-35	663 000	-	99 866	-	-	3,543,710	-
	EPE-45	16 650 000 <sup>(b)</sup>	-	903 091	-	-	80,113,136	-
	EPE-46	-	16 650 000 <sup>(b)</sup>	-	4 376 555	- 262 193	-	204,262,083
	EPE-52*	221 000	-	103 200	-	-	5,556,922	-
	EPE-68	438 000	-	185 027	-	-	7,790,686	-
	EPE-72	20	-	6	-	-	860	-
	EPE-128	26 780	-	5 740	-	-	313,228	-
	EPE-144	438 000 <sup>(m)</sup>	-	273 829	-	-	16,627,371	-
	EPE-155	526 000 <sup>(n)</sup>	-	346 337	-	-	19,396,534	-
Mirant Americas Energy Marketing, L.P.	EPE-142	-	3 000 000	-	1 225	-	-	31,056
	EPE-143	2 000 000	-	-	-	-	-	-
<b>TOTAL</b>				<b>5 379 750</b>	<b>4 377 780</b>	<b>- 262 193</b>	<b>330,303,177</b>	<b>204,293,139</b>
<b>SASKATCHEWAN</b>								
Saskatchewan Power Corporation	EL-118*	438 000 <sup>(o)</sup>	-	-	-	-	-	-
	EL-119*	-	876 000 <sup>(o)</sup>	-	-	- 7 697	-	-
	EL-120*	876 000 <sup>(o)</sup>	-	-	-	-	-	-
	EPE-88	-	7 008 000 <sup>(q)</sup>	-	117 307	42 715	-	7,282,954
	EPE-89	7 008 000 <sup>(q)</sup>	-	127 699	-	-	8,884,201	-
<b>TOTAL</b>				<b>127 699</b>	<b>117 307</b>	<b>35 018</b>	<b>8,884,201</b>	<b>7,282,954</b>

**E6. Electricity Exports - 2001**  
**(Megawatt Hours)**

Exporter	Permit/ Licence Number	Permit/Licence Limit		Gross Energy Exported			Value of Export (\$)	
		Firm	Interruptible	Firm	Interruptible	Exchange <sup>(a)</sup>	Firm	Interruptible
<b>ALBERTA</b>								
Atco Electric Ltd. and Atco Power Ltd.	EPE-93	-	10 600 000 <sup>(f)</sup>	-	-	-	-	-
	EPE-94	10 600 000 <sup>(f)</sup>	-	-	-	-	-	-
Aquila Canada Corp.	EPE-115	5 000 000	-	156 173	-	-	54,704,471	-
BP Canada Energy Company	EPE-178	-	5 000 000 <sup>(g)</sup>	-	-	-	-	-
	EPE-179	5 000 000	-	-	-	-	-	-
Candela Energy Corporation	EPE-165	-	8 760 000 <sup>(h)</sup>	-	-	-	-	-
	EPE-166	8 760 000	-	-	-	-	-	-
Chandler Energy Inc.	EPE-100	-	500 000 <sup>(i)</sup>	-	-	-	-	-
	EPE-101	500 000 <sup>(i)</sup>	-	-	-	-	-	-
CMS Marketing, Services and Trading	EPE-161	-	6 310 000 <sup>(j)</sup>	-	-	-	-	-
	EPE-162	1 752 000	-	-	-	-	-	-
Duke Energy Marketing Canada Ltd.	EPE-135	-	2 000 000 <sup>(k)</sup>	-	25	-	-	1,568
	EPE-136	2 000 000 <sup>(k)</sup>	-	7 287	-	-	829,359	-
Edison Mission Marketing & Trading Inc.	EPE-120	-	432 000	-	-	-	-	-
	EPE-121	2 160 000	-	-	-	-	-	-
El Paso Merchant Energy Energy, L.P.	EPE-175	-	5 000 000	-	-	-	-	-
	EPE-176	5 000 000	-	-	-	-	-	-
Enmax Energy Corporation	EPE-169	-	8 760 000	-	135 531	-	-	55,735,344
	EPE-170	3 504 000	-	-	-	-	-	-
Enmax Energy Marketing Inc.	EPE-169	-	8 760 000	-	41 861	-	-	3,317,799
	EPE-170	3 504 000	-	-	-	-	-	-
Engage Energy Canada, L.P.	EPE-96	-	3 000 000 <sup>(l)</sup>	-	-	-	-	-
	EPE-97	3 000 000 <sup>(l)</sup>	-	-	-	-	-	-
Engage Energy US L.P.	EPE-151	-	2 234 000	-	-	-	-	-
	EPE-152	7 508 000	-	-	-	-	-	-
Enron Capital & Trade Resources Canada Corp.	EPE-98	-	5 000 000 <sup>(m)</sup>	-	946	-	-	139,341
	EPE-99	5 000 000 <sup>(m)</sup>	-	-	-	-	-	-
Entergy Power Marketing Corporation	EPE-153	-	5 000 000 <sup>(n)</sup>	-	-	-	-	-
	EPE-154	5 000 000 <sup>(n)</sup>	-	-	-	-	-	-
IDACORP Energy L.P.	EPE-163	-	876 000 <sup>(o)</sup>	-	-	-	-	-
	EPE-164	876 000	-	-	-	-	-	-
NRG Power Marketing Inc.	EPE-171	-	1 000 000	-	-	-	-	-
	EPE-172	2 000 000	-	-	-	-	-	-
PanCanadian Energy Services	EPE-182	-	5 000 000	-	-	-	-	-
	EPE-183	5 000 000	-	-	-	-	-	-
PG&E Energy Trading - Power L.P.	EPE-145	-	5 000 000	-	-	-	-	-
	EPE-146	5 000 000	-	-	-	-	-	-

## E6. Electricity Exports - 2001

(Megawatt Hours)

Exporter	Permit/ Licence Number	Permit/Licence Limit		Gross Energy Exported			Term	
		Firm	Interruptible	Firm	Interruptible	Exchange	Firm	Interruptible
Sempra Energy Trading Co.	EPE-156 EPE-157	- 8 300 000	8 760 000 -	- -	5 145 -	- -	- -	87,294 -
Sonat Power Marketing Inc. and Sonat Power Marketing L.P.	EPE-103 EPE-104	- 3 500 000 <sup>(bb)</sup>	3 500 000 <sup>(bb)</sup> -	- -	- -	- -	- -	- -
TransAlta Energy Marketing Corp.	EPE-167 EPE-168	- 8 760 000	8 760 000 <sup>(cc)</sup> -	- 71 326	- -	- -	- 6,587,050	- -
TransCanada Energy Ltd.	EPE-78 EPE-79	- 1 000 000	2 000 000 -	- -	210 096 -	- -	- -	90,190,274 -
<b>TOTAL</b>			<b>234 786</b>	<b>393 604</b>			<b>62,120,880</b>	<b>149,471,620</b>
<b>BRITISH COLUMBIA</b>								
Aquila Canada Corp.	EPE-114	-	5 000 000	-	27 479	-	-	3,873,504
Bonneville Power Authority	EPE-140 EPE-141	- <sup>(dd)</sup>	<sup>(dd)</sup> -	- -	- -	- -	- -	- -
British Columbia Hydro and Power Authority	EPE-105 Treaty <sup>(ee)</sup> EPE-124* EPE-125* EPE-126 EPE-127 EPE-192 EPE-193	1 410 - - <sup>(ff)</sup> - <sup>(ff)</sup> - <sup>(ff)</sup>	- - <sup>(ff)</sup> - <sup>(ff)</sup> - <sup>(ff)</sup>	1 238 - - - - - -	- - - - - - -	- -194 945 - - - - 130 113 -	92,574 - - - - - -	- - - - - - -
Columbia Power Corporation	EPE-158 EPE-159 EPE-160	- 750 000 <sup>(gg)</sup> 200 000	750 000 <sup>(gg)</sup> - -	- - -	- - -	- - -	- - -	- - -
Cominco Ltd.	EPE-131 EPE-132 EPE-133 EPE-134	- 1 000 000 - 250 000	1 000 000 <sup>(hh)</sup> - 50 000 -	- 405 842 - -	- - - -	- - - -	- 60,974,771 - -	- - - -
Dynegy Canada Inc.	EPE-80 EPE-81	- 1 200 000	1 200 000 <sup>(ii)</sup> -	- 80 800	- -	- -	- 49,614,303	- -
Inland Pacific Energy Services Ltd.	EPE-106 EPE-107	- 2 000 000 <sup>(ii)</sup>	2 000 000 <sup>(ii)</sup> -	- -	- -	- -	- -	- -
Powerex Corp	EPE-71 EPE-116 EPE-117 EPE-118 EPE-119	25 951 - 20 000 000 - 15 000 000	- 40 000 000 <sup>(kk)</sup> - 27 000 000 <sup>(ll)</sup> -	- - - - -	- - - 5 586 439 -	- - - - -	- - - - -	- - - 1,970,710,846 -
West Kootenay Power Ltd.	EPE-13	50	-	17	-	-	1,206	-
<b>TOTAL</b>				<b>487 897</b>	<b>5 613 918</b>	<b>- 64 832</b>	<b>110,682,854</b>	<b>1,974,584,350</b>
<b>TOTAL CANADA<sup>(mm)</sup></b>				<b>12 140 142</b>	<b>26 261 456</b>	<b>1 763 578</b>	<b>946,921,067</b>	<b>3,278,415,222</b>

## E6. Electricity Exports - 2001

### (Megawatt Hours)

- (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 combined exports for Permits EPE-122 and EPE-123 shall not exceed 1 200 GW.h.
  - (e) Total exports shall not exceed 8 760 GW.h less any amount exported under Permit EPE-112.
  - (f) Total exports shall not exceed 30 000 GW.h less any amount exported under Permit EPE-65.
  - (g) 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.
  - (h) Total combined exports for Permits EPE-129 and EPE-130 shall not exceed 30 000 000 GW.h.
  - (i) Total combined exports for Permits EPE-108 and EPE-109 shall not exceed 8 760 GW.h.
  - (j) Total exports shall not exceed 8 760 GW.h less any amount exported under Permit EPE-87.
  - (k) Total combined exports for Permits EPE-149 and EPE-150 shall not exceed 250 GW.h.
  - (l) 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.
  - (m) Total annual exports must not exceed 438 GW.h in 2001 through 2009, and 146 GW.h in 2010.
  - (n) 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.
  - (o) Energy to be returned
  - (p) Total combined exports for Licences EL-119 and EL-120 shall not exceed 876 GW.h.
  - (q) Total exports shall not exceed 7 008 GW.h less any amount exported under any other electricity authorization except border accommodations issued to Saskpower.
  - (r) Total combined exports for Permits EPE-93 and EPE-94 shall not exceed 10 600 GW.h.
  - (s) Total exports shall not exceed 5 000 GW.h less any amount exported under Permit EPE-179.
  - (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 exports shall not exceed 6 310 GW.h less any amount exported under Permit EPE-162.
  - (w) Total combined exports under Permits EPE-135 and EPE-136 shall not exceed 2 000 GW.h.
  - (x) Total combined exports under Permits EPE-96 and EPE-97 shall not exceed 3 000 GW.h.
  - (y) Total combined exports under Permits EPE-98 and EPE-99 shall not exceed 5 000 GW.h.
  - (z) Total combined exports under Permits EPE-153 and EPE-154 shall not exceed 5 000 GW.h.
  - (aa) Total exports shall not exceed 876 GW.h less any amount exported under Permit EPE-164.
  - (bb) Total combined exports under Permits EPE-103 and EPE-104 shall not exceed 3 500 GW.h.
  - (cc) Total exports shall not exceed 8 760 GW.h less any amount exported under Permit EPE-168.
  - (dd) Total exports shall not exceed the maximum transfer limits of the international power lines of BC Hydro and Cominco.
  - (ee) Energy exported in accordance with the Skagit River Valley Treaty which is not under the Board's jurisdiction.
  - (ff) 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.
  - (gg) 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.
  - (hh) Total exports shall not exceed 1 000 GW.h less any amount exported under Permit EPE-132.
  - (ii) Total exports shall not exceed 1 200 GW.h less any amount exported under Permit EPE-81.
  - (jj) Total combined exports for Permits EPE-106 and EPE-107 shall not exceed 2 000 GW.h.
  - (kk) Total exports shall not exceed 40 000 GW.h less any amount exported under Permit EPE-117.
  - (ll) Total exports shall not exceed 27 000 GW.h less any amount exported under Permit EPE-119.
  - (mm) Excludes \$2,141,858 revenue for wheeling, transmission, unit rental and storage transfer charges.
- \* Expired during 2001

**E7. Electricity Trade Between Canada and the United States - 2001<sup>(a)</sup>**  
**(By Province, Gigawatt Hours)**

Province	Region/State	Export <sup>(b)</sup>	Import <sup>(c)</sup>	Net Export <sup>(b) - (c)</sup>
Nova Scotia	Maine	350	15	335
<b>Total Nova Scotia</b>		<b>350</b>	<b>15</b>	<b>335</b>
New Brunswick	Maine	3 436 964	80 103	3 356 861
	Maryland	37 200	-	37 200
<b>Total New Brunswick</b>		<b>3 474 164</b>	<b>80 103</b>	<b>3 394 061</b>
Quebec	Maine	834 506	444	834 062
	Massachusetts	371 191	-	371 191
	New England <sup>(d)</sup>	2 458 142	-	2 458 142
	New York	8 922 556	3 448 352	5 474 204
	Vermont	2 233 407	-	2 233 407
<b>Total Quebec</b>		<b>14 819 802</b>	<b>3 448 796</b>	<b>11 371 006</b>
Ontario	New York	2 922 470	634 248	2 288 222
	Michigan	74 012	2 175 612	-2 101 600
	Minnesota	378 058	28 425	349 633
<b>Total Ontario</b>		<b>3 374 540</b>	<b>2 838 285</b>	<b>536 255</b>
Manitoba	Minnesota	1 225	206	1 019
	North Dakota/Minnesota	9 756 305	657 360	9 098 945
<b>Total Manitoba</b>		<b>9 757 530</b>	<b>657 566</b>	<b>9 099 964</b>
Saskatchewan	North Dakota	245 006	855 058	- 610 052
<b>Total Saskatchewan</b>		<b>245 006</b>	<b>855 058</b>	<b>- 610 052</b>
Alberta	California	142 539	200	142 339
	Idaho	2 369	75	2 294
	Iowa	5 145	-	5 145
	Montana	-	25	- 25
	Oregon	7 632	8 811	- 1 179
	Washington	470 705	175 756	294 949
<b>Total Alberta</b>		<b>628 390</b>	<b>184 867</b>	<b>443 523</b>

## E7. Electricity Trade Between Canada and the United States - 2001<sup>(a)</sup>

### (By Province, Gigawatt Hours)

Province	Region/State	Export <sup>(b)</sup>	Import <sup>(c)</sup>	Net Export <sup>(b) - (c)</sup>
British Columbia	Alaska	1 238	-	1 238
	Arizona	54 954	-	54 954
	California	3 178 577	-	3 178 577
	Colorado	36 121	-	36 121
	Idaho	2 300	4 409	- 2 109
	Montana	-	30	- 30
	North Dakota	130	-	130
	Oregon	143 145	2 360	140 785
	South Dakota	34	-	34
	Texas	3 600	-	3 600
	Washington	2 681 716	8 034 124	-5 352 408
<b>Total British Columbia</b>		<b>6 101 815</b>	<b>8 040 923</b>	<b>-1 939 108</b>
<b>TOTAL</b>		<b>38 401 597</b>	<b>16 105 613</b>	<b>22 295 984</b>

(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 - 2001<sup>(a)</sup>

(By American Region / State, Gigawatt Hours)

Region/State	Province	Export <sup>(b)</sup>	Import <sup>(c)</sup>	Net Export <sup>(b) - (c)</sup>
<b>New England</b>				
Maine	New Brunswick	3 436 964	80 103	3 356 861
	Nova Scotia	350	15	335
	Quebec	834 506	444	834 062
Maryland	New Brunswick	37 200	-	37 200
Massachusetts	Quebec	371 191	-	371 191
Vermont	Quebec	2 233 407	-	2 233 407
New England <sup>(d)</sup>	Quebec	2 458 142	-	2 458 142
<b>Total New England</b>		<b>9 371 760</b>	<b>80 562</b>	<b>9 291 198</b>
<b>New York</b>				
New York	Ontario	2 922 470	634 248	2 288 222
	Quebec	8 922 556	3 448 352	5 474 204
<b>Total New York</b>		<b>11 845 026</b>	<b>4 082 600</b>	<b>7 762 426</b>
<b>Michigan</b>				
Michigan	Ontario	74 012	2 175 612	-2 101 600
<b>Total Michigan</b>		<b>74 012</b>	<b>2 175 612</b>	<b>-2 101 600</b>
<b>Midwest</b>				
Iowa	Alberta	5 145	-	5 145
Minnesota	Manitoba	1 225	206	1 019
	Ontario	378 058	28 425	349 633
ND/Minn	Manitoba	9 756 305	657 360	9 098 945
North Dakota	British Columbia	130	-	130
	Saskatchewan	245 006	855 058	- 610 052
South Dakota	British Columbia	34	-	34
<b>Total Midwest</b>		<b>10 385 903</b>	<b>1 541 049</b>	<b>8 844 854</b>
<b>Texas</b>				
Texas	British Columbia	3 600	-	3 600
<b>Total Texas</b>		<b>3 600</b>	<b>-</b>	<b>3 600</b>
<b>Western</b>				
Alaska	British Columbia	1 238	-	1 238
Arizona	British Columbia	54 954	-	54 954
California	Alberta	142 539	200	142 339
	British Columbia	3 178 577	-	3 178 577
Colorado	British Columbia	36 121	-	36 121
Idaho	Alberta	2 369	75	2 294
	British Columbia	2 300	4 409	- 2 109
Montana	Alberta	-	25	- 25
	British Columbia	-	30	- 30
Oregon	Alberta	7 632	8 811	- 1 179
	British Columbia	143 145	2 360	140 785
Washington	Alberta	470 705	175 756	294 949
	British Columbia	2 681 716	8 034 124	-5 352 408
<b>Total Western</b>		<b>6 721 296</b>	<b>8 225 790</b>	<b>-1 504 494</b>
<b>TOTAL</b>		<b>38 401 597</b>	<b>16 105 613</b>	<b>22 295 984</b>

(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 for all uses (heat, light and transportation) every 50 minutes.

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

## ***Approximate Conversion Factor***

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 barrels 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

Group 1 Gas Pipelines  
 Alliance Pipeline Ltd.  
 Foothills Pipe Lines Ltd.  
 Gazoduc Trans Québec & Maritimes Inc.  
 Maritimes and Northeast Pipeline Management Ltd.  
 TransCanada PipeLines Limited  
 TransCanada PipeLines Limited, B.C. System

Group 1 Oil and Products Pipelines

Enbridge Pipelines Inc.  
 Enbridge Pipelines (NW) Inc.  
 Trans Mountain Pipe Line Company Ltd.  
 Trans-Northern Pipelines Inc.

AEC Oil and Gas  
 AEC Sutherland Gas Pipeline Inc.  
 AEC West Ltd.  
 AllaGas Services Inc.  
 AllaGas Transmission Inc.  
 ANG Gathering & Processing Ltd. a) Ltd.

Calpine Canada Resources Ltd.

Canadian Hunter Exploration Ltd.  
 Canadian Midstream Pipeline Limited Partnership  
 Canadian-Montana Pipe Line Company Limited  
 Canadian Natural Resources Limited

Chauveo Oil & Gas Ltd.  
 Chief Mountain Gas Co-op Ltd.

ELAN Energy Inc.

Fletcher Challenge Energy Canada Inc.  
 Forty Miles Gas Co-op Ltd.  
 Gibson Petroleum Company Limited  
 Huntington International Pipeline Corporation  
 Husky Oil Operations Ltd.  
 KeySpan Energy Canada

Mid-Continent Pipelines Limited  
 Minell Pipeline Limited  
 Mobil Oil Canada Ltd.  
 Murphy Canada Exploration Ltd.

Olympia Energy Inc.  
 Omers Resources Limited  
 PanCanadian Petroleum Limited  
 Peace River Transmission Company Limited  
 Penn West Petroleum Ltd.  
 Pioneer Natural Resources Canada I a Inc.

Rigel Oil and Gas Ltd.  
 Sable Offshore Energy Incorporate  
 Samson Canada Ltd.

Superman Resources Ltd.  
 Suprex Energy Corporation

Union Gas Limited  
 Vector Pipeline Limited Partnership  
 Wascana Pipe Line Ltd.

Aurora Pipe-Line Company  
 BP Canada Energy Company  
 Conoco Canada Ltd.

Enbridge Pipelines (Westspur) Inc.  
 Ethane Shippers Joint Venture  
 Express Pipeline Ltd.  
 Federated Pipe Lines (Northern) Ltd.  
 Husky Energy Inc.

Imperial Oil Resources Limited  
 ISH Energy Ltd.  
 Manito Pipelines Ltd.  
 Montreal Pipe Line Limited

Nexen Marketing

Penn West Petroleum Ltd.  
 Pipestone Pipelines Ltd.

Saskatchewan Oil and Gas Corporation  
 SCL Pipeline Inc.

Sun Pipe Line Company

Yukon Pipelines Limited

Commodity Pipelines  
 Abitibi-Consolidated Inc.  
 E.B. Eddy Forest Products Ltd.  
 Fraser Paper Inc. (Canada)

ATCO Electric Ltd.  
 ATCO Power Ltd.  
 Bonneville Power Administration

British Columbia Hydro and Power Authority  
 The Canadian Transit Company

Cominco Ltd.

Coral Energy Canada Inc.

Engage Energy Canada, L.P.

Hydro-Québec

Manitoba Hydro

Nova Scotia Power Inc.

Ontario Power Interconnected Markets Inc.

St. Clair Tunnel Company

Sonat Power Marketing, L.P.

