

## PREFACE TO THE 1996 EDITION

<b>【Japan's FY 1994 Coal Demand】</b>	
* Japan's Coal Demand In JFY '94 At 126.40 Mil MT, Up 7.3% From A Year Ago, That By Power Ind Up 14.3% .....	1
<b>【REFERENCE】</b> Steel Production, Ratio Of Continuous Casting In Steel Production, Consumption Of Coking Coal, Coal Coke, Fuel Oil, Steel Scrap, and Stocks Of Rolled Steel Products In Recent Years .....	1
* Non/Semi-Soft Coking Coal Consumption Ratio By B.F. Steelmills To Go Up To 50% Of Total In 2000; Surplus Feeling Of Hard Coking Coal Supply To Surge .....	2
<b>【REFERENCE】</b> Changes In Work Forces Of Japanese Blast Furnace Steelmakers .....	2
<b>【REFERENCE】</b> Japan's Trend In Pig Iron, Crude Steel Production By Quarter .....	3
<b>【REFERENCE】</b> Trend In Coking Coal Consumption By Japanese Steelmakers .....	3
* JFY 1995 Crude Steel Output Again Down To Below 100 Mil MT .....	4
<b>【REFERENCE】</b> Japan's Trend In (Local/Export) Shipments Of Ordinary Steel Products .....	4
<b>【REFERENCE】</b> Interim Operation Results Of Big 5 B.F. Steel Mills For Apr.-Sept. JFY '95 .....	5
<b>【REFERENCE】</b> Restructuring Programs Of Big 5 B.F. Mills (As of Sept. 30, 1995) .....	5
* Steelmakers' Plant & Equip. Investments In JFY '95 Unabated From A Year Ago At ¥546 Billion ..	6
* JFY 1995 Investments In Plant & Equipment On A Work Basis .....	6
* JFY '94 Coal Demand By Power Industry Up A Hefty 14.3% From A Year Ago .....	6
* Coal Demand By Thermal Power Generation Up To 72.5 Mil MT In JFY 2004 .....	7
<b>【REFERENCE】</b> Average Temperature in July-September 1995 .....	7
<b>【REFERENCE】</b> Average Temperature in July-September 1994 .....	7
<b>【REFERENCE】</b> Recent Electric Production (Agst Previous Year) .....	7
<b>【REFERENCE】</b> JFY '94 Fuel Consumption at Thermal Power Plants .....	7
<b>【REFERENCE】</b> Trend in Up/Down of Power Output & Fuel Consumption From 12 Months Ago .....	7
* JFY 1994 Coal Demand By Ceramic/Earthen Ware Ind. Basically Unabated From A Year Ago .....	8
* Coal Demand By Chemical Industry In JFY 1994 Unchanged From A Year Before .....	8
* Coal Demand By Paper/Pulp Ind. In JFY 1994 Up 5.2% From A Year Before .....	8
* Coal Demand By Coke Ind. Up In JFY 1994, But Coke Output Down From A Year Ago .....	8
<b>【REFERENCE】</b> Coal-Fired Power Plants To Start Up For 1996-2000 .....	8
* Coal Demand For Thermal Power Gen. In 1st Half JFY 1995 Up 10.1% From Same JFY '94 Period ...	9
<b>【SPECIAL TOPICS】</b>	
* JFY 1995 Coking Coal Talks Formed Source Of Big Future Trouble, Japanese Gave Strong Distrust To All Overseas Exporters .....	9
<b>【Customs-Cleared Coal Imports In 1994】</b>	
* 1994 Coal Imports Up 2.8% From A Year Ago To 117.13 Mil MT, Coking Coal Share In Total Imports Down 3 Percentage Points .....	10
* Average Coal Import Value Up 6.5% In US\$, Down 14.0% In Yen, Aussie Coal Down US\$ 10.4% As Agst. U.S. Coal, Also Down US\$ 14.37 As Agst. Canadian Coal ..	11
* 1st Half CY 1995 Coal Imports Up 10.5% From Same CY 1994 Period .....	11
* Thermal Coal Imports Up A Lot Across-The-Board Focusing On U.S. Coal Up 182% From Last Year .....	12
<b>【TOPICS IN 1995】</b>	
* Rakuto Kizai Industries Successfully Cut NOx By 70% .....	12
* High Efficient Battery Developed By Sony For Electric Automobile Use .....	12
* Riken Removes Over 90% Of Exhaust Gas From Diesel Engine .....	13
* Six Various Kinds Of Business Firms To Dispose Of Ind. Waste Ashes At Low Cost .....	13
* Solid Fuel Making Project From Household Refuse Now Active .....	13
* Participation In Wholesale Power Gen. Project Now Getting Active .....	13
* Mitsubishi Corp., Others Begin FS For CSD Project To Produce Boiler Fuel For Power Generation .....	14
* Acid Rain Monitoring Network To Be Set Up In Asia .....	14
* Desulfurization Units Introduced By China For Coal-Fired Power Plants .....	14
JFY 1995 FOBT Price of Import Coking Coal for Export to Japan .....	15
JFY 1995 FOBT Import Contract Prices of Thermal Coal for Export to Japan .....	17
Post-Oil-Crisis Trend, Values of Japanese Coking Coal and Thermal Coal Imports from Major Sources .....	18
Recent Crude Oil Prices and Fuel (residual) Oil Prices Meant for Power Utilities .....	20
<b>LONG TERM ENERGY SUPPLY AND DEMAND OUTLOOK IN JAPAN (June 21, 1994)</b> .....	21
<b>【REFERENCE】</b> LONG TERM ENERGY SUPPLY AND DEMAND OUTLOOK IN JAPAN (June 5, 1990) .....	21
ISI Estimate of World Steel Products' Consumption by Countries .....	22

CY 2000, IISI Estimate of World Steel Products' Consumption by Contries .....	22
CY 1995 World Crude Steel and Pig Iron Production .....	23
World Coal Reserves .....	24

**PAST AND PRESENT AS VIEWED FROM STATISTICS**

**Domestic: General**

Domestic/Imported Coal Deliveries (Sales) by Industries and Japanese Fiscal Years .....	25
Demand and supply of Domestic/Imported Coals in JFY 1994 .....	26
CY 1994 Sales of Imported and Domestic Coals by User Industries and Coal Types .....	27
JFY 1994 Sales of Imported and Domestic Coals, by User Industries and Coal Types .....	28
Japan's CY 1994 Local Sales of Imported Coal by Industries, Coal Type and Source .....	29
Japan's JFY 1994 Local Sales of Imported Coal by Industries, Coal Types and Sources .....	30
Jan-Jun 1995 Sales of Imported and Domestic Coals by User Industries and Coal Types ..	31
Japan's Jan-Jun 1995 Local Sales of Imported Coal by Industries, Coal Types and Sources ...	32
Recent Coke Supply/Consumption (JFY 1985-1994) .....	33
Japan's Coke Production by User Industries and Years .....	34
Japan's Total Energy Consumption by Type .....	35

**Domestic: Iron and Steel**

[ 1 ] Production of Pig Iron, Crude Steel and Finally Rolled Steel Products .....	36
1) Tonnages by Calender Year (1962-1994) and Fiscal Year (1962-1994) .....	36
2) Monthly and Quarterly Production (From January 1993 to Jan-Sep 1995) .....	37
[ 2 ] Production of Pig Iron and Crude Steel (JFY 1985-1994) By Steelmills .....	38
[ 3 ] Pig Iron and Crude Steel Production, Coking Coal Consumption, Coal Ratio, Coke Ratio, Fuel Oil Injection Volume in Past 15 Years .....	39
[ 4 ] Domestic Coal Production and Coal Imports in Past 15 Years .....	39
[ 5 ] Steelmills' Purchased Quantities of Coking Coal by Origin in Past 15 Years .....	39
[ 6 ] Steelmills' Purchasing Ratio of Coking Coal by Origin in Past 15 Years .....	40
[ 7 ] Average Import Prices of Coking Coal by Origin in Past 15 Years .....	40
[ 8 ] Average Prices of Domestic and Imported Coking Coal in Japanese Yen in Past 15 Years ...	40
[ 9 ] Coking Coal Consumption by Japanese Steelmills in CY 1994 .....	41
1) Imported and Domestic Tonnages by Steelmills .....	41
2) Coal Ratio, Blending Ratio of Semi-Soft Coking Coal and Pig Iron Production .....	41
3) Tonnages by Origin and Steelmills .....	41
[10] Steelmills' Blending (purchase basis) Ratio of Coking Coal by Origin in Past 5 Years ...	42
Appendix①: Steelmills' Purchase Tonnage of Semi-soft Coking Coal in CY 1994 .....	42
Appendix②: Steelmills' Purchase/Consumption of Anthracite and Pet. Coke in CY 1994 ...	42
[11] Coking Coal Consumption by Steelmills in JFY 1994 .....	43
1) Imported and Domestic Tonnages by Steelmills .....	43
2) Coal Ratio, Blending Ratio of Semi-soft Coking Coal and Pig Iron Production .....	43
3) Consumption Tonnage by Origin and Steelmills .....	43
4) Purchase Shares by Origin and Steelmills .....	44
5) Purchase Tonnages by Origin and Steelmills .....	44
6) Degree of Purchase Dependence, by Type of Coal and Steelmills in JFY 1994 .....	45
Appendix①: Steelmills' Purchase Tonnage of Semi-soft Coking Coal in JFY 1994 .....	45
Appendix②: Steelmills' Purchase/Consumption of Anthracite and Pet. Coke in JFY 1994 ...	45
[12] Steelmills' Coking Coal Consumption and Ratio by Origin in Past 10 Years .....	46
[13] Japanese Steelmills' Dependence of Coking Coal Purchases, by Major Origin (Calculated on the basis of consumed tonnages, JFY 1985-1994) .....	47
[14] Five Major B.F. Steelmills' Fuel Consumption per Pig Iron ton in JFY 1973 and 1987-1994 .....	48
[15] Recent Blast Furnace Steelmills' Consumption of Coking Coal, Coke, Pet.Coke, Fuel Oil, Kerosene, Gas Oil, LPG, LNG, B.F.Gas, C.O.Gas, Converter Gas and Oxygen in Past 10 Years (1985-1994) .....	49
[16] CY 1994, JFY 1994 and Jan-Jun 1995 B.F. Firms' Consumption of Petroleum Fuel, Gases, Oxygen by Use .....	50
[17] Recent Petroleum Coke Consumption by B.F. Steelmills .....	51
[18] Blast Furnace Steelmills' Consumption of Steel-making Raw Materials .....	52
[19] Steelmills' Recent Coal (including Anthracite and Pet. Coke) Consumption for Blast-Furnace Operation .....	53
[20] Blast Furnace Steelmills' Consumption of Fuel Oil, Kerosene, Gas Oil, LPG and LNG .....	54
[21] B.F. Steelmills' Recent Consumption of Coke and Petroleum Coke .....	54
[22] B.F. Steelmills' Consumption of B.F. Gas, Oxygen, Converter Gas and Electric Power .....	55

[23] Steelmills' Imports of Steel-making Raw Materials on Customs Cleared Basis .....	56
[24] Steelmills' Imports of Steel-making Raw Materials by Origin .....	58
[25] Recent Workforce of Japanese Steel Industry .....	60
[26] Yearly Pig Iron and Steel Production Capacities of Furnaces .....	60
[Appendix] Average Monthly Exchange Rate of Yen to US Dollar (1978-1995) .....	61

#### Customs Cleared Statistics

Recent 45-year (CY 1950-1994) Customs-Cleared Imports of Coking Coal, Thermal Coal and Anthracite by Origin .....	62
Recent 42-Year (CY 1953-1994) Customs-Cleared Imports of Petroleum Coke .....	65
Recent 45-Year (CY 1950-1994) Customs-Cleared CIF Import Value of Coking Coal, Thermal Coal and Anthracite .....	66
Recent 45-Year (CY 1950-1994) Customs-Cleared Imports of Raw and Crude Oil .....	69
Imports of Coking Coal, Thermal Coal and Anthracite in CY 1994 .....	70
Petroleum Coke Imports in CY 1994 .....	72
Coke Exports in CY 1994 .....	72
Imports of Crude Oil, Fuel(residual) Oil and LPG in CY 1994 .....	73
Imports of Coking Coal, Thermal Coal and Anthracite in JFY 1994 .....	74
Petroleum Coke Imports in JFY 1994 .....	76
Coke Exports in JFY 1994 .....	76
Imports of Crude Oil, Fuel(residual) Oil and LPG in JFY 1994 .....	77
Imports of Coking Coal, Thermal Coal and Anthracite in Jan-Jun 1995 .....	78
Petroleum Coke Imports in Jan-Jun 1995 .....	80
Coke Exports in Jan-Jun 1995 .....	80
Imports of Crude Oil, Fuel(residual) Oil and LPG in Jan-Jun 1995 .....	81
Recent 48-month Customs-Cleared Imports of Coking Coal, Thermal Coal and Anthracite .....	82
Recent 48-month Customs-Cleared Imports CIF Prices of Coking Coal, Thermal Coal and Anthracite .....	85
Recent 48-month Customs-Cleared Imports and CIF Prices of Petroleum Coke By Origins .....	91

#### OVERSEAS: GENERAL STATISTICS

[1] World Pig Iron Production (CY 1985-1994) .....	94
[2] World Crude Steel Production (CY 1985-1994) .....	95
[3] Crude Steel Production by World Major Companies (CY 1989-1994) .....	96
[4] Coal Production by World Major Countries (CY 1987-1994) .....	100
[5] Exports of Coal by World Major Countries (CY 1987-1994) .....	100
[6] Blast Furnace Coke Ratio by World Major Countries (CY 1975-1994) .....	101
[7] Crude Steel Consumption per man by Nations (CY 1985-1994) .....	101
[8] Coke Exports/Imports of World Major Countries (CY 1985-1994) .....	102
IISI Countries' Steel Production in January-September 1995 (Preliminary) .....	103
[Reference] IISI Countries' Direct Reduced Iron Production .....	103
CY 1994/Jan-Jun 1995 Korean Imports/Exports of Coal and Petroleum Coke .....	104
CY 1994/Jan-Jun 1995 Taiwan Imports of Coal and Coal Coke .....	106
CY 1994 Hong Kong Imports of Coal .....	106

#### COKING COAL

##### CONTRACT STATUS OF IMPORT COKING COAL FOR SHIPMENT IN JFY 1995

[1] Contract Tonnage by Consumers and Origin .....	107
[2] JFY 1995 Import Contracts of Semi-soft Coking Coal by Trading Firms and Consumers .....	107
[3] Steelmakers' Contract Tonnages by Origin and Coal Type, and Ratio of Hard/Soft to Semi-soft Coking Coal .....	108
[4] Rates of Hard/Soft to Semi-soft Coking Coal Calculated from Contract Tonnages .....	108
[5] Contract Tonnages by Importers and Origin .....	109
[6] Contract Tonnages by Importers and Consumers .....	110
JFY 1995 IMPORT CONTRACT OF SEMI-SOFT COKING COAL FOR EXPORT TO JAPAN .....	112

#### UNITED STATES

* U. S. Coal Output in 1994 Up 77.32 Mil MT From A Year Ago; That Of West Virginia Up 28.07 Mil MT .....	113
* Domestic Demand For Coal Slightly Up 0.4% (3.58 Mil MT) .....	113
(Appendix) Trend of Japanese Steelmills' Imports of U. S. Coal in the Past 10 Years .....	113

* Coal Exports In 1994 At 64.73 Mil MT, Down For 3 Years In A Row, Those For Italy Up. But Those For France, Germany Down .....	114
* Coal Imports In 1994 Up 3.8% To 6.88 Mil MT .....	114
(Appendix) Production & Exports of U.S. Coal for CY 1985-1994 (incl. Anthracite, Bituminous Coal and Lignite) .....	114
* U.S. Coal Stocks At 1994 Year-End Up 16.4%; Stocks By Power Cos. Up A Hefty 14.45 Mil MT .....	115
(Appendix) Trend of Export Price on U.S. Coal .....	115
QUARTERLY U.S. DEMAND AND SUPPLY OF COAL .....	116
[1] Coal Production, Imports, Consumption, Exports and Stocks .....	116
[2] Coal Consumption by End-Use Sector .....	116
[3] U.S. Coal Production Trends by States (CY 1990-1994) .....	117
[4] CY 1994 U.S. Exports of Coal Classified by Destinations .....	118
[5] CY 1994 U.S. Coal Exports by Customs District .....	119
[6] CY 1994 U.S. Coal Imports by Origin .....	119
[7] Coal Imports by Custom Districts .....	120
[8] Coke Production, Imports, Consumption, Exports, and Stocks .....	120
[9] Coke and Breeze Production at Coke Plant .....	121
[10] Coke Exports by Destinations .....	121
[11] Coke Imports by Origin .....	121
[12] COAL STOCKS (1973-1994) .....	122
[13] Recent Average Prices of Coal Receipts By End-users .....	123
U.S. Coal Exports of Coking Coal and Thermal Coal in January-June 1995 .....	124
Recent U.S. Coal Exports, by Customs Districts .....	125
PRINCIPAL BRANDS FOR JAPAN, PRODUCERS, IMPORTERS, QUALITY SPECIFICATIONS AND LOADING PORTS ...	126
CONTRACT STATUS OF U.S. COKING COAL IN JFY 1995 .....	128
1) Consumers' Contract Tonnages by Brands and Types of Coal .....	128
2) Importers' Contract Tonnages by Brands and Consumers .....	129
3) Tonnages by Importers and Consumers .....	130
4) Tonnages by Shippers and Consumers .....	130
5) Tonnages by Shippers .....	130
DETAIL OF LONG-TERM CONTRACTS OF U.S. COKING COAL SUPPLY TO JAPAN .....	131
[1] JFY 1995 Contract on Pittston Blend Coal .....	131
[Reference] Former Long-term Contract of Pittston MV Blend .....	132
[2] 12-Year Contract of Stott (Peabody HV/Semi-soft) .....	134
[3] JFY 1995 Contract of Blue Creek Coal .....	135

## AUSTRALIA

* 1994 Coal Output in Australia Up 2.1% To 183.80 Mil MT; That In NSW Up 0.6%, That In QLD Up 3.9% .....	137
* 1994 Coal Output By Open-Cut Mining Topped 130Mil MT .....	137
(Appendix) Trend of Japanese Imports of Coking Coal from Australia for Blast Furnace Steel Mills .....	137
* Number Of Coal Mines In 1994 Down 37 From 10Yrs Ago, U/G Output Efficiency Improved About Double From 10 Years Ago .....	138
* Longwall Mining Operation Now Facing Trials, Rising Year By Year, Though .....	138
* 1994 Output Productivity Up 5% To 7.060 MTC Per Man/Year .....	138
* 1994 Coal Exports Down 0.4% To 131.20 Mil MT, Coking Coal For India Up 26.8% To 8.202 Mil MT .....	139
* JFY '95 Coking Coal Contract Talks Left Worst Distrust Ever In Japan-Australia Coal Trade History Behind Both Parties .....	139
* Coal Output From NSW In 1st Half '95 Up 7.8%, That From QLD Up 12.0% .....	140
(Appendix) Japanese Dependence On Australian Coal Supply .....	140
(Appendix) Recent Australian Coal Production and Export .....	140
* Coal Exports To India In 1st Half '95 Up, Close To 10 Mil MT At Annual Pace .....	141
AUSTRALIAN COAL PRODUCTION, DEMAND & SUPPLY AND EXPORTS .....	142
[1] Coal Supply and Disposal .....	142
[2] Coal Demand and Supply by States in CY 1994 .....	142
[3] Production, Deliveries and Stocks, by States .....	143
[4] Coal Industry Stock by States (CY 1984-1994, At end Jun 1990-Dec 1994) .....	143
[5] Raw Coal Production by States and Years .....	144
[6] Saleable Black Coal Production by States and Years .....	145
[7] Raw Coal Production by Method of Mining and States .....	146
[8] AFY 1993-94 Coal Production in NSW per Employee .....	147
[9] AFY 1993-94 Coal Production in NSW by District and Method .....	148
[10] AFY 1994-95 Clean Coal Production by Collieries and Districts in NSW .....	149



[31] JFY 1995 Contract for Goonyella Hard Coking Coal .....	186
[32] JFY 1995 Contract for Peak Downs Hard Coking Coal .....	186
[33] JFY 1995 Contract for Saraji Hard Coking Coal .....	187
[34] 15-Year Contract for Collinsville Hard Coking Coal .....	187
[35] JFY 1995 Contract for Gregory Hard Coking Coal .....	187
[36] JFY 1995 Contract for UHV Coal (Gregory Semi-soft Coal) .....	187
[37] 14.5-Year Contract for Riverside Hard Coking Coal .....	188
[38] JFY 1995 Contract for ULV Coal (Norwich Park Semi-soft Coal) .....	188
[39] JFY 1995 Contract for South Blackwater Hard Coking Coal .....	188
[40] JFY 1995 Contract for German Creek Hard Coking Coal .....	188
[41] JFY 1994 Contract for German Creek Semi-Soft Coking Coal .....	189
[42] JFY 1995 Contract for Oaky Creek Hard Coking Coal .....	189
[43] JFY 1995 Contract for Curragh Hard Coking Coal .....	189
[44] JFY 1995 Contract for Curragh Semi-soft Coking Coal .....	189
[45] 5-Year Contract of Gordonstone Coking Coal .....	189
[46] JFY 1995 Contract for Gordonstone Semi-soft Coking Coal .....	190
[47] 5-Year Contract of North Goonyella Coking Coal .....	190
[48] JFY 1995 Contract of North Goonyella Semi-soft Coking Coal .....	190
[49] JFY 1995 Contract for Jellinbah East Semi-Soft Coking Coal .....	190
TERMS AND CONDITIONS OF LONG-TERM CONTRACTS FOR AUSTRALIAN COKING COAL .....	191
<b>【NEW SOUTH WALES】</b>	
(1) JFY 1995 Contract of Coal Cliff Hard Coking Coal .....	191
(2) JFY 1995 Contract of South Bulli Hard Coking Coal .....	194
(3) JFY 1995 Contract of Tahmoor Hard Coking Coal .....	195
(4) JFY 1995 Contract of Wollondilly Hard Coking Coal .....	196
(5) JFY 1995 Contract of B.V.Blend Semi-soft Coking Coal .....	197
(6) JFY 1995 Contract of Lithgow Semi-soft Coking Coal .....	197
(7) JFY 1995 Contract of Bayswater Semi-soft Coking Coal .....	197
(8) [REFERENCE] JFY 1990 Contract of Clarence Semi-Soft Coking Coal .....	198
(9) [REFERENCE] JFY 1994 Contract of Hunter Valley Soft Coking Coal .....	198
(10) JFY 1995 Contract of Hunter Valley Semi-soft Coking Coal .....	200
(11) JFY 1995 Contract of Liddell Semi-soft Coking Coal .....	200
(12) [REFERENCE] JFY 1988 Contract of Newdell Soft Coking Coal .....	201
(13) [REFERENCE] JFY 1991 Contract of Newdell Semi-soft Coking Coal .....	201
(14) JFY 1995 Contract of Howick Semi-soft Coking Coal .....	202
(15) [REFERENCE] JFY 1994 Contract of Lemington Soft Coking Coal .....	202
(16) [REFERENCE] JFY 1994 Contract of Warkworth Soft Coking Coal .....	203
(17) JFY 1995 Contract of Warkworth Semi-soft Coking Coal .....	204
(18) [REFERENCE] JFY 1994 Contract of Big Ben Soft Coking Coal .....	204
(19) [REFERENCE] JFY 1991 Contract of Big Ben Semi-soft Coking Coal .....	205
(20) [REFERENCE] JFY 1994 Contract of Daiyon Soft Coking Coal .....	205
(21) JFY 1995 Contract for Peko Semi-soft Coking Coal .....	206
(22) [REFERENCE] JFY 1994 Contract of Pelton-Billalong Soft Coking Coal .....	207
(23) [REFERENCE] JFY 1994 Contract of Rathluba Soft Coking Coal .....	207
(24) [REFERENCE] JFY 1994 Contract for Donaldson Semi-soft Coking Coal .....	207
(25) JFY 1995 Contract of Woodlands Semi-soft Coking Coal .....	207
(26) JFY 1995 Contract of Wambo Semi-soft Coking Coal .....	208
(27) JFY 1995 Contract of Hoskissons Semi-soft Coking Coal .....	208
(28) JFY 1995 Contract of Melvilles Semi-soft Coking Coal .....	208
(29) [REFERENCE] JFY 1990 Contract for Charbon Semi-soft Coking Coal .....	209
(30) JFY 1995 Contract for Metropolitan Semi-soft Coking Coal .....	209
(31) JFY 1995 Contract of Saxonvale-Bulga Semi-soft Coking Coal .....	209
(32) JFY 1995 Contract of United Semi-soft Coking Coal .....	210
(33) JFY 1995 Contract of Vickery Semi-soft Coking Coal .....	210
(34) JFY 1995 Contract of Camberwell Semi-soft Coking Coal .....	211
(35) JFY 1995 Contract of Newcastle Semi-soft Coking Coal .....	211
(36) JFY 1995 Contract of Macquarie Semi-soft Coking Coal .....	212
(37) JFY 1995 Contract of Newstan Semi-soft Coking Coal .....	212
(38) JFY 1995 Contract of Picton Semi-soft Coking Coal .....	212
(39) JFY 1995 Contract of Stratford Semi-soft Coking Coal .....	212
(40) JFY 1995 Contract of Oaknew Semi-soft Coking Coal .....	213
(41) JFY 1995 Contract of Cumnock Semi-soft Coking Coal .....	213
(42) Contract on "NC Blend" Semi-soft Coking Coal for JFY 1995 .....	213
<b>【QUEENSLAND】</b>	
(1) "Revolving 3-Year Evergreen Letter of Understanding on Coal Supply" Between Japanese Steelmakers and BHP Australia Coal Ltd. ....	214
(2) JFY 1995 Contract of Blackwater Hard Coking Coal .....	214

(3) JFY 1995 Contract of Blackwater Weak Coking Coal .....	215
(4) JFY 1995 Contract for Goonyella Hard Coking Coal .....	216
(5) JFY 1995 Contract for Peak Downs Hard Coking Coal .....	217
(6) JFY 1995 Contract for Saraji Hard Coking Coal .....	217
(7) JFY 1995 Contract for of Gregory Hard Coking Coal .....	217
(8) JFY 1995 Contract for UHV (Gregory) Semi-soft Coking Coal .....	218
(9) JFY 1995 Contract for ULV (Norwich Park) Semi-soft Coking Coal .....	219
(10) JFY 1995 Contract of South Blackwater Hard Coking Coal .....	219
(11) 15-Year Contract of Collinsville Hard Coking Coal .....	220
(12) JFY 1995 Contract of German Creek Hard Coking Coal .....	221
(13) [REFERENCE] JFY 1994 Contract for German Creek Semi-Soft Coking Coal .....	222
(14) 14.5-Year Contract of Riverside Hard Coking Coal .....	222
(15) JFY 1995 Contract of Curragh Hard Coking Coal .....	223
(16) JFY 1995 Contract of Curragh Semi-soft Coking Coal .....	223
(17) JFY 1995 Contract of Oaky Creek Hard Coking Coal .....	223
(18) [REFERENCE] JFY 1987 Contract of Oaky Creek A Semi-Soft Coking Coal .....	224
(19) [REFERENCE] JFY 1990 Export Contract of Cook Soft Coking Coal .....	224
(20) 5-Year Long-Term Contract of Gordonstone Hard Coking Coal .....	225
(21) 5-Year Long-Term Contract of North Goonyella Hard Coking Coal .....	226
(22) JFY 1995 Contract of Jellinbah East Semi-Soft Coking Coal .....	227
(23) [REFERENCE] JFY 1994 Contract of Moura Hard Coking Coal .....	228
(24) JFY 1995 Contract of KCOAL Semi-soft Coking Coal .....	228
OUTLINE OF AUSTRALIAN COKING COAL MINES .....	228
【NEW SOUTH WALES】	
(1) Coal Cliff Coal .....	229
(2) South Bulli Coal .....	230
(3) Lithgow Coal .....	231
(4) Wollondilly Coal .....	232
(5) Tahmoor Coal .....	234
(6) Liddell Coal .....	235
(7) Hunter Valley Coal .....	236
(8) Warkworth Coal .....	239
(9) Howick Coal or Newdell Coal .....	241
(10) Mt. Thorley Coal .....	242
(11) Big Ben Coal .....	243
(12) Gunnedah Coal .....	244
(13) Daiyon Coal .....	244
(14) Hoskissons Coal .....	246
(15) Melvilles Coal .....	247
(16) Pelton Eilalong Coal .....	247
(17) Bayswater Coal .....	247
(18) Rathluba Coal .....	247
(19) West Wallsend Coal .....	249
(20) Lemington Coal .....	249
(21) Wambo Coal .....	251
(22) Vickery Coal .....	252
(23) Muswellbrook Coal .....	252
(24) Charbon Coal .....	253
(25) Woodlands Coal .....	254
(26) Howick Semi-soft Coking Coal .....	254
(27) B.V. Blend Coal .....	255
(28) Donaldson Semi-soft Coking Coal .....	255
(29) Metropolitan Semi-Soft Coking Coal .....	255
(30) Clarence Coal .....	256
(31) Camberwell Coal .....	256
(32) Teralba Coal .....	257
(33) United Coal .....	258
(34) Peko Semi-coking Coal .....	259
(35) Saxonvale-Bulga Coal .....	259
(36) Macquarie Coal .....	261
(37) Newstan Coal .....	261
(38) Stratford Coal .....	262
(39) Mount Owen Coal .....	262
(40) Picton Coal .....	263
(41) Cummoock Coal .....	263
(42) PW Weaker Coal .....	264
(43) Dartbrook Coal .....	264
《COKING COAL PROJECTS IN NSW》	
(1) Bargo Coal .....	264
(2) Glendell Coal .....	265
(3) Glennies Creek Coal .....	266
(4) Lachlan Coal .....	266
(5) Mount Pleasant Coal .....	267
(6) Mitchells Flat Coal .....	268
【Locality of Coal Mines in New South Wales and Queensland】	
【QUEENSLAND】	
(1) Summary of BHP Australia Coal's Coal Coverage in Northern Blackwater Area ..	273
(2) Blackwater Hard/Semi-soft Coking Coal ..	274
(3) Goonyella Hard Coking Coal .....	275
(4) Peak Downs Hard Coking Coal .....	277
(5) Harrow Creek Hard Coking Coal .....	278
(6) Saraji Hard Coking Coal .....	278
(7) Norwich Park Hard/Semi-soft Coking Coal .....	279
(8) South Blackwater Hard Coking Coal ....	280
(9) Riverside Hard Coking Coal .....	282
(10) Gregory Hard/Smi-soft Coking Coal.....	283
(11) Collinsville Hard Coking Coal .....	285
(12) German Creek Hard Coking Coal .....	287
(13) German Creek East Hard Coking Coal ...	288
(14) Oaky Creek Hard/Semi-soft Coking Coal .....	289
(15) Oaky Creek North Coal Project .....	290
(16) Curragh Hard/Semi-soft Coking Coal ...	291
(17) Cook Hard/Soft/Semi-soft Coking Coal .	293
(18) Gordonston Hard Coking Coal .....	293
(19) North Goonyella Hard Coking Coal .....	296
(20) Jellinbah East Coal .....	298
(21) Ensham Coal Project .....	299
(22) Moura Hard/Semi-soft (Kcoal) Coking Coal ....	300
(23) Moranbah North Project .....	301
(24) Burton Coal Project .....	302
(25) Wards Well Coal Project .....	305
(26) Hail Creek Hard Coking Coal Project ..	305

CANADA

* Canadian Coal Output Set A New Record In 1994 At 72.80 Mil MT, Up 5.4% From A Year Ago, That From B. C. Up 9.7% .....	306
* Coal Exports In 1994 Up 11.7% From A Year Ago To 31.62 Mil MT .....	306
[APPENDIX] Japanese Steelmills' Imports of Canadian Coking Coal in the 10 Years .....	306
* Local Coal Demand In 1994 Up 6.9% From A Year Ago To 52.34 Mil MT .....	307
* Distrust Left Behind Canadians In Wake Of FY'95 Contract Talks .....	307
* Northeastern Coal Issue Getting More Controversial Year By Year .....	308
[APPENDIX] Annual(JFY 1992-1994)Shipment of Major Canadian Coal Brands For Export to Japan ..	308
JAPANESE INVESTMENTS IN CANADIAN COKING COAL MINES .....	309
(1) Gregg River Coal Mine .....	309
(2) Quintette Coal Mine .....	309
(3) [Reference] Elkview (former Balmer) Coal Mine ..	311
COAL SUPPLY AND DEMAND IN CANADA (CY 1984-1994) .....	312
[1] Coal Demand and Supply .....	312
[2] Supply .....	312
[3] Consumption .....	312
[4] Coal Production, by Coal Types and Total Value .....	313
[5] Coal Production, by Type and and Province .....	313
[6] Coal Exports by Destinations .....	314
[7] CY 1994 Coal Exports by Type and Destinations .....	314
[8] Coal Consumption by Province .....	315
[9] Coal Consumption by Type .....	315
[10] Consumption of Domestic and Imported Coal, by Major Uses .....	315
[11] Canada Coal Consumption by End-user and Coal Type .....	316
[12] Canada Coal Production by Type and Province .....	316
[13] Domestic Demand for Primary Energy by Type .....	316
SUMMARY OF CANADA'S COAL RESOURCES OF IMMEDIATE INTEREST BY PROVINCE .....	317
OPERATORS, SHIPPERS, JAPANESE IMPORTERS, GUARANTEED SPECIFICATIONS OF PRINCIPAL BRANDS FOR EXPORTS TO JAPAN .....	318
CONTRACT STATUS OF JFY 1995 CONTRACTS OF CANADIAN COKING COAL FOR EXPORTS TO JAPAN .....	320
[1] Contract Tonnage by Coal Type, Brands and Consumers .....	320
[2] Tonnages by Importers and Brands .....	320
[3] Tonnages by Shippers and Consumers .....	320
[4] Contract Tonnages by Brands, Consumers and Importers .....	321
1) Fording River 2) Elkview 3) Line Creek 4) Luscar 5) Gregg River 6) Quintette 7) Smoky River 8) Elkview Premium 9) Fording Grade B 10) Bullmoose 11) Aggregated Total Tonnages of 8 Brands (11 Types), by Consumers and Importers	
LONG-TERM CONTRACT TONNAGE OF CANADIAN COKING COAL FOR EXPORTS TO JAPAN, BY CONSUMERS AND BRANDS .....	324
[1] Fording River Coal .....	324
[2] Luscar (Std/HV) Hard Coking Coal .....	324
[3] Elkview (former Balmer) Hard Coking Coal .....	324
[4] Line Creek Coal Hard Coking Coal .....	325
[5] Quintette Coal Hard Coking Coal .....	325
[6] Bullmoose Coal Hard Coking Coal .....	325
[7] Gregg River Hard Coking Coal .....	326
[8] Greenhills Hard Coking Coal .....	326
[9] Smoky River Hard/Semi-soft Coking Coal .....	326
[10] Fording Grade B .....	326
[11] Elkview Weak .....	326
[12] DEVCO Hard Coking Coal .....	326
[13] Coal Mountain Coal .....	326
TWRMS AND CONDITIONS OF LONG-TERM CONTRACTS .....	327
(1) 3-year Contract of Fording River Coking Coal .....	327
(2) [REFERENCE] JFY 1993 Contract of Greenhills Coking Coal .....	329
(3) 3-year Contract of Luscar Coking Coal .....	330
(4) 3-year Contract of Elkview Coking Coal .....	332
(5) 15-Year Contract of Line Creek Coking Coal .....	335
(6) 15.5-Year Contract of Gregg River Coking Coal.....	336
(7) 15-Year Contract of Quintette Coking Coal .....	339
(8) 15-Year Contract of Bullmoose Coking Coal .....	345
(9) JFY 1995 Contract of Smoky River Hard Coking Coal .....	347
(10) JFY 1995 Contract of Smoky River Semi-soft Coking Coal .....	347
(11) [REFERENCE] JFY 1993 Contract of Coal Mountain Coal .....	348
(12) [REFERENCE] JFY 1992 Contract of DEVCO Hard Coking Coal .....	348
OUTLINE OF MAJOR CANADIAN COKING COAL MINES .....	350
(1) Fording River Hard Coking Coal .....	350
(2) Greenhills Hard Coking Coal .....	352
(3) Luscar Hard Coking Coal .....	354
(4) Elkview Hard Coking Coal .....	357
(5) Gregg River Hard Coking Coal .....	360
(6) Quintette Hard Coking Coal .....	362
(7) Bullmoose Hard Coking Coal .....	368
(8) Line Creek Hard Coking Coal .....	370
(9) Coal Mountain Coal .....	371
(10) Smoky River Hard Coking Coal .....	373
(11) Devco Coal .....	374
(12) Monkman Coal Project .....	375

## RUSSIA

* Russian Coal Output in 1994 Down 11.1% From A Year Ago, That for 1st Half '95 As Well Down 7.7% From Same '94 Period To 131 Mil MT .....	377
* Crude Output In 1994 Also Down A Hefty 10.8% From A Year Ago, That For 1st Half '95 Down 2%, Slightly Improved, Though .....	377
[APPENDIX] Recent Japanese Steelmills Imports of Russian Coking Coal (JFY 1985-1994).....	377
* Natural Gas Output, Too In 1994 Down 1.8% From A Year Ago For 3 Consecutive Years, That For Jan-June '95 Down 2.2% From Same '94 Period .....	378
* Power Output In 1994 Also Down 8.4% From A Year Ago To 876 Billion kWh .....	378
* Major Products Output In 1994 Reduced A Lot Across-The-Board From Same '94 Period .....	378
* 1994 Coal Exports From Russia Put At 24,097 Mil MT .....	378
Russian Energy Production in CY 1994 and January-June 1995 .....	379
CY 1994 Russian Exports of Coal .....	379
* JFY 1995 CONTRACT OF RUSSIAN COKING COAL FOR EXPORTS TO JAPAN .....	380
* Summary of the General Agreement on Development and Importation into Japan of Neryungrinsky K-9 Coking Coal .....	382
* Summary of the General Agreement on the Bank Loan to Russia (The Soviet Union) Concerning the Development of South Yakutsky Coal (Neryungrinsky K-9) Project .....	383
OUTLINE OF SOUTH YAKUTSKY COAL BASIN .....	384
Outline of Neryungrinsky Coal Deposits .....	384
RUSSIAN COAL STANDARD (GOST) .....	386

## PEOPLE'S REPUBLIC OF CHINA

* Chinese Raw Coal Output In 1994 A Record High Since 1989 At 1,121.03 Mil MT, Up 70.83 Mil MT From A Year Ago .....	387
* Output Growth In 1st Half '95 An All-Time High Of Nearly 100 Mil MT A Year .....	387
[APPENDIX] Trend of Japanese Imports of Coking Coal from China for Blast Furnace Mills .....	387
[APPENDIX] Coal Output Growth % As Against Previous Year In Past 11 Years Until 1983 .....	388
* Crude Output Up 0.6% From A Year Ago At 146.08 Mil MT, 1994 Growth Of Demand For Energy At 10.9 Billion MT In Terms Of Standard Coal .....	388
* 1994 Natural Gas Output Up 4.7% To 17.5 Billion Cubic Meters .....	388
* 1994 Coal Exports Up 22.7% To 24.3 Mil MTL Average Coal Export Value At US\$31.73 per MT FOB, Down US\$3.72 .....	389
* Coal Exports In 1st Half '95 As Well Up A Hefty 30.8% .....	389
* Chinese Coal Coke Exports In 1994 Up A Grate 54.8% Its Exports From Shanxi Prov. Surged, Those in 1st '95 Excellent .....	389
* Oil Exports By China In 1994 Up A Hefty 22% .....	390
* Export Coal Price For Japan Steeply Increased In JFY 1995, Coking Coal Volumes Up For First Time Since A While Ago .....	390
* Quality Control Based On ISO 9000 Series Contributed To Volume Increase .....	390
RECENT CHINESE ENERGY PRODUCTION, CONSUMPTION AND EXPORTS .....	391
[1] Energy Production and Production Share by Primary Energy Sources .....	391
[2] CY 1993 Raw Coal Production by Region .....	391
[3] CY 1993 Clean Coking Coal Production .....	391
[4] CY 1993 Raw Coal Production by Types .....	392
[5] Manpower at Coal Mines .....	392
[6] Coal Export Ratio against the Raw Coal Production .....	392
[7] 1993 Coal Production by Mines related to Coal Export to Japan .....	392
[8] Ratio of Prim. Energy Consumption .....	392
[9] Coal Consumption by Use .....	392
[10] Ave. Export Price/Value of Coal .....	392
[11] Typical Quality Specifications of Coals for Export .....	393
[12] Coal Standard In China .....	393
[REFERENCE] China's Recent Foreign Currency Reserve .....	393
OUTLINE OF IMPORT CONTRACT OF CHINESE COKING COAL FOR JFY 1995 .....	394
[APPENDIX] Contract Tonnage by Consumers and Coal Types .....	394
Importers' Contract Tonnages of Chinese Coking Coal by Consumers .....	395
1994 China Coal Exports By Coal Types and Destinations .....	397
1994 China Coal Imports By Coal Types and Destinations .....	397
China Coal Exports in January - September 1995 .....	397
THE FIRST (1978-1985) IMPORT TARGET OF COKING COAL AND THERMAL COAL UNDER EIGHT year SINO-JAPANESE TRADE AGREEMENT .....	398
1) FOBT Prices by Brands and Years 2) Tonnages by Types and Years .....	398
The 2nd (1986-1990) Japan-China Long-term Trade Agreement .....	398

The 3rd (1991-1995) Japan-China Long-term Trade Agreement .....	398
The 4th (1996-2000) Japan-China Long-term Trade Agreement .....	398
JAPAN/CHINA JOINT COAL DEVELOPMENT & RELEVANT INFRASTRUCTURE ADJUSTMENT PLANS .....	399
(1) Prospective Mines for Joint Development under Ex-Im Bank Loan .....	399
(2) Agreement of Ex-Im Bank Loans to be Made to China .....	399
(3) Japanese Steel Industry's Basic Policy of Coking Coal Import From China .....	400
(4) Infrastructural Adjustment Plans Relating to Coal Developments .....	400
(5) Yen Loans for Financing Proposed Infrastructural Adjustments .....	401
OUTLINE OF CHINESE COKING COAL MINES .....	403
Kailuan Coal Mining Bureau .....	403
Yanzhou Coal Mining Bureau .....	404
Zaozhuang Coal Mining Bureau .....	405
Huaibei Coal Mining Bureau .....	406
Shanxi Coal Mining Bureau .....	407
Fengfeng Coal Mining Bureau .....	408

## INDONESIA

* 1994 Coal Output From Indonesia Up To 30.47 Mil MT, That in 2000 By Contractors Alone Put At 64.50 Mil MT .....	409
* 1994 Coal Exports Up 29.4% From A Year Ago To 23.56 Mil MT .....	409
[REFERENCE] Recent Indonesian Production and Exports of Coal .....	409
* Domestic Demand To Steeply Rise Focusing On Power Generation .....	410
DEMAND/SUPPLY OF COAL IN INDONESIA .....	411
[1] Indonesian Coal Production, Domestic Sales, Exports (CY 1986-1994) .....	411
[2] Coal Production in CY 1994 (and Jan-Jun'95) by Companies .....	411
[3] Recent Coal Exports by Companies .....	412
[4] Long-term Coal Production Target by Companies .....	412
[5] Power Generation Expansion Plan in Indonesia (1995→2005) .....	412
[6] Electricity Production Shares by Energy Sources .....	413
[7] Scenario of Supply and Demand of Coal In Indonesia .....	413
[8] Coal Consumption Forecast by Sectors (June 1995) .....	413
CY 1994 Coal Exports/Imports of Indonesia .....	414
INDONESIAN COAL RESOURCES .....	415
[1] By Areas and Coal Mines Up to the end of 1989 .....	415
[2] By Island and Resions Up to May 1993 .....	416
Typical Quality Specifications of Principal Indonesian Coal .....	416

## REPUBLIC OF SOUTH AFRICA

* 1994 South African Coal Output Up To A Hefty 195.80 Mil MT, Coal Exports Surged Up To Max. Shipping Capacity At 54.59 Mil MT Ave. Coal Value Up 2.4% From A Year Ago To R.88.15 Per MT FOB .....	417
[APPENDIX] Trend of Japanese Steelmills' Imports of Coking Coal from South Africa .....	417
[APPENDIX] CY 1994 Export Prices By Coal Types .....	418
[APPENDIX] South African Long-term Coal Export Projection .....	418
[APPENDIX] Major Products Exported From South Africa In CY 1994 .....	418
* DETAILS OF 24.5-YEAR LONG TERM CONTRACT ON WITBANK COKING COAL .....	419
* Contract Details of Optimum Semi-soft Coking Coal for JFY 1995 .....	421
* Contract Details of Bank Semi-soft Coking Coal for Sumitomo Metal Industry for JFY 1995 ...	422
[APPENDIX] Coal Production and Sales of Rep. of South Africa .....	423
[APPENDIX] South African Major Export Coal Mines, Production in CY 1994 and Quality Specifications .....	424
[APPENDIX] South Africa's Exports of Coal In CY 1994 .....	425

## POLAND

* Coal Output In 1994 Up At 133.60 Mil MT From A Year Ago, For The First Time 6 Years Since 1988, That Of Brown Coal Down .....	426
* Domestic Demand Nosedived To As Low As 71.06 Mil MT .....	426
[APPENDIX] Japanese Steel Mills' Recent Imports of Polish Coking Coal .....	426
[APPENDIX] Recent Coal Production In Poland .....	426
* Coal Exports Up 4.99 Mil MT From A Year Ago To 27.97 Mil MT .....	427
POLISH EXPORTS OF HARD COAL AND COKE, BY DESTINATIONS .....	428
[1] Hard Coal Exports by Destinations .....	428
[2] Weglokoks Hard Coal Exports by Destinations .....	429
[3] Weglokoks Hard Coal Exports by Type and Size .....	429
[4] Polish Consumption of Hard Coal .....	430
[5] Polish Coal and Coke Exports by Ports .....	430
[6] Polish Coke Exports by Destination .....	430

**COLOMBIA**

* El Cerrejon Semi-soft Coking Coal .....	431
[APPENDIX] Japan's Recent Imports of Colombian Coal .....	431
[APPENDIX] Colombia's Production and Export of Coal .....	432
[APPENDIX] CY 1994 Colombian Exports of Coal .....	432

**NEW ZEALAND**

(1) Buller Hard Coking Coal .....	433
(2) Strongman Semi-soft Coking Coal .....	433
Japan's Recent Imports of New Zealand Coal .....	434
New Zealand Production, Consumption and Export of Coal .....	434
RECOVERABLE COAL RESERVES IN NEW ZEALAND (1985) .....	434

**THERMAL COAL**

9 Power Companies' Fuel Consumption (JFY 1990-1994) and Consumption Plan for JFY 1995 .....	435
Apr-Sep 1995 Fuel Stock Balance for Thermal Power Generation by Main Electric Power Company ..	435
Power Companies' Coal Consumption in January-June 1995 .....	436
JFY 1994 Fuel Consumption for Thermal Power Generation and JFY 1995 Fuel Consumption Plan ....	437
JFY 1994 Fuel Stock Balance for Thermal Power Generation by Main Electric Power Companies ....	438
JFY 1995 Fuel Consumption Plan for Thermal Power Generation by Main Electric Power Companies ..	439
End-Fiscal Composition of Equipment Capacities, by Types of Sources .....	440
End-Fiscal Equipment Capacities & Increase/Decrease by Types Electricity Sources .....	441
Electricity Source Development Programs by Type of Electricity Sources .....	441
Estimated Long-Term Development Volumes of Electricity Sources by Fuels .....	441
Construction Plans of Coal Burning Thermal Power Plants .....	442
Startups of Proposed Coal-fired Thermal Power Plants .....	443
JFY 1990-1995 Alternations to Fiscal 1990 Startup Plan of Coal-fired Thermal Power Plants ....	444
JFY 1994 Coal Consumption by Thermal Power Plants .....	445
CY 1994 Coal Consumption by Thermal Power Plants and Month .....	446
JFY 1994 Coal Consumption by Thermal Power Plants and Month .....	447
Power Firms' Coal Consumption (Plan) and Import Contracts of Coal, by Thermal Power Plants ...	448
Cement Production and Consumption of Coal and Fuel Oil .....	459
Cement Industry's Fuel Consumption by Fuel Type, Use and Month .....	460
SUMMARY OF PROPOSED SHIPPING QUALITY SPECIFICATIONS, CONTRACT TONNAGES AND PRODUCTION SCALE OF MAJOR COAL MINES .....	462
OUTLINE OF OVERSEAS THERMAL COAL MINES .....	486
«AUSTRALIA: New South Wales»	
1) Hunter Valley Coal .....	486
2) Lithgow Coal .....	487
3) Warkworth Coal .....	488
4) Lemington Coal .....	489
5) Ulan Coal .....	490
6) Wallarah/Moonee Coal .....	491
7) Chain Valley Coal .....	492
8) R.W. Miller Blend Coal .....	493
9) Avon Coal .....	493
10) Muswellbrook Coal .....	494
11) Bloomfield Coal .....	494
12) Wambo Coal .....	494
13) Clarence Coal .....	495
14) Drayton Coal .....	496
15) Saxonvale-Bulga Coal .....	497
16) South Bulga Coal .....	497
17) Macquarie Coal .....	498
18) Bayswater Coal .....	498
19) Mt. Thorley Coal .....	499
20) Vickery Coal .....	500
21) Great Greta Coal .....	500
22) BHP Illawarra Coal .....	501
23) Metropolitan Coal .....	502
24) Camberwell Coal .....	502
25) United Coal .....	502
26) Mount Owen Coal .....	502
27) Stratford Coal .....	503
28) Dartbrook Coal .....	503
«AUSTRALIA: Queensland»	
1) Blair Athol Coal .....	504
2) Moura Coal .....	506
3) Newlands Coal .....	506
4) South Blackwater Coal .....	507
5) Curragh Coal .....	507
6) Yarrabee Coal .....	507
7) Cook Coal .....	508
8) Jeebropilly Coal .....	508
9) New Hope (Bremer) Coal .....	509
10) Ensham Coal .....	510
11) Rhondda Coal .....	511
12) Walloon Coal .....	511
13) Oakleigh Coal .....	511
14) Aberdare Coal .....	512
15) Jellinbah East Coal .....	512
16) Ebenezer Coal .....	512
17) Milkie Creek Coal .....	513
«CANADA»	
1) Coal Valley Coal .....	513
2) Obed Coal .....	513

3) Greenhills Coal .....	514	6) Coal Mountain Coal .....	514
4) Line Creek Coal .....	514	7) Quinsam Coal .....	515
5) Fording River Coal .....	514		
«SOUTH AFRICA»			
1) Rietspruit Coal .....	515	6) Goedehope Coal .....	518
2) Witbank Coal .....	516	7) Arthur Taylor Coal .....	518
3) Kleinkopje Coal .....	516	8) Middelburg Coal .....	518
4) Ermelo Coal .....	516	9) Bank Coal .....	519
5) Optimum Coal .....	517	10) Twistdraai Coal .....	519
«RUSSIA»			
1) Neryungrinsky SS Coal .....	520	2) Other Thermal Coal Brands .....	520
«COLOMBIA»			
1) El Cerrejon Coal (North Block) .....	521	2) Pribbenow Coal .....	522
«INDONESIA»			
1) Kaltim Prima Coal .....	523	9) Bukit Asam Coal .....	527
2) Multi Harapan Coal .....	524	10) Parambahan Coal .....	527
3) Arutmin Coal .....	524	11) Adaro (Enviro) Coal .....	527
4) Tanito Harum Coal .....	525	12) DMH Coal .....	528
5) Bukit Baiduri Coal .....	526	13) Petanggis (Kendiro) Coal .....	529
6) Kutai Coal .....	526	14) Kideco Coal .....	529
7) Kitadin Coal .....	526	15) Belau Coal .....	529
8) Ombilin Coal .....	526	16) Chung Hua Coal .....	530
«ALASKA»			
1) Usibelli Coal .....	531		
«VENEZUELA»			
1) Guasare Coal .....	531		
OUTLINE OF OVERSEAS THERMAL COAL PROJECTS .....	533		
«AUSTRALIA: New South Wales»			
1) Maules Creek Coal .....	533	7) Oaklands Coal .....	535
2) Boggabri Coal .....	533	8) Glendell Coal .....	535
3) Mt. Arthur South Coal .....	534	9) Bargo Coal .....	536
4) East Lithgow Coal .....	534	10) Glennis Creek Coal .....	536
5) Mitchels Flat Coal .....	535	11) Mount Peasant Coal .....	536
6) Duralie Coal .....	535	12) Wyong/Tuggerah Lakes Coal .....	536
«AUSTRALIA: Queensland»			
1) Clermont Coal .....	536	6) Moranbah South Coal .....	538
2) Togara North Coal Project .....	537	7) Togara South Coal .....	538
3) Macalister Coal .....	537	8) Red Hill Coal .....	539
4) Macalister East .....	538	9) Glen Wilga/Haystack Road Coal .....	539
5) Daunia Coal .....	538		
«AUSTRALIA: Victoria»			
1) Loy Yang Coal .....	539		
«CANADA»			
1) Sage Creek Coal .....	540	2) Macleod River Coal .....	540
«ALASKA»			
1) Beluga Coal .....	541	2) Chuitna Coal .....	542
«INDONESIA»			
«NEW ZEALAND»			
1) Greymouth Coal .....	543		
«VENEZUELA»			
1) Mina Norts Coal Mine .....	544	3) Others .....	544
2) Socuy Coal Mine .....	544		

## JAPANESE COAL

MITI's Estimate of Coal Demand and Supply Position During JFY 1995 .....	545
Recent 10 Years (JFY 1985-1994) Demand and Supply for Domestic Coal .....	545
Recent Coal Demand/Supply in Japan (JFY 1985-1994) .....	546
JFY 1994 Coal Production by Companies and Collieries .....	546
Coal Production by Districts in Past 50 Years (JFY 1945-1994) .....	547
Coal Production by Districts in Coal Type (JFY 1985-1994) .....	547
Recent 20-year Purchases (Deliveries) of Domestic Coal, by User Industries .....	548
JFY 1994 Purchases (Deliveries) of Domestic Coal by (to) User Industries and Coal Type .....	548
Standard Thermal Coal Prices in JFY 1986-1995 .....	549
[REFERENCE] Coal Production Indices In Past 16 Years .....	549
Recent (JFY 1983-1994, Jan'92-Sep'95) Price Differences Between Domestic and Imported Coals ..	550

## ANTHRACITE

[1] Sources and Channels for Export to Japan .....	551
[2] Uses and Users of Respective Brands .....	552
[3] Quality Specifications by Origin and Brand .....	553
[4] Export Prices for Japan, by Origin and Brand (CY/JFY 1993-1995) .....	554
[5] Japan's Contract of Vietnam (Hongay) Anthracite For Shipment In CY 1995 .....	555
[6] Japan's Contract of Chinese Anthracite For JFY 1995 Shipment .....	555
[7] North Korean Anthracite Contract for Export to Nippon Steel .....	555
[8] Recent Import Tonnages and Average Price of Anthracite .....	556

## BLAST FURNACE

[1] Blast Furnaces in Japan by Steel Works .....	557
[2] PCI Facilities at Blast Furnaces .....	558
[REFERENCE] No. Of B.F. Mills By Operating Conditions .....	558
[3] Big Blast Furnaces in the World .....	559

## PORT AND TRANSPORTATION

[1] 1983-1994 Seaborne Tonnages of Major Japanese Import Cargoes .....	561
[2] Japan's Merchant Marine By Sizes and Number (Over 1,000 G/T) .....	561
[3] Comparative Trend In Japan's Total Trade Traffic Versus Sea-borne Traffic .....	562
[4] Composition of Japanese Merchant Fleets as of Mid-1995 .....	562
[5] Vessels by Deadweight and Types .....	563
[6] Recent Trumper Freight Rates of Grain, Coal and Crude Oil .....	563
PERFORMANCE OF IMPORT CARGO TRANSPORT BY JAPANESE SHIPPING COMPANIES IN JFY 1994 .....	564
TRANSPORT OF COALS BY SOURCES AND BY JAPANESE COMPANIES IN JFY 1994 .....	565
MAIN PORTS OF JAPANESE STEEL MILLS .....	566
U. S. COAL SHIPPING PORTS .....	569
AUSTRALIAN COAL SHIPPING PORTS .....	572
CANADIAN COAL SHIPPING PORTS .....	577
RUSSIAN COAL SHIPPING PORTS .....	579
POLISH COAL SHIPPING PORTS .....	580
SOUTH AFRICAN COAL SHIPPING PORTS .....	581
CHINESE COAL SHIPPING PORTS .....	582
INDONESIAN COAL SHIPPING PORTS .....	584
COLOMBIAN COAL SHIPPING PORTS .....	585
VENEZUELAN COAL SHIPPING PORT .....	585
Japanese Shipping Companies' Iron Ore/Coal Carriers Operating Under Steelmakers Load Guarantees .....	586
Blast Furnace Steelmills' Load Guaranteed Tonnages by Shipping Companies and Type of Vessels ..	589
Haulage Ratio of Imported Iron Ore and Coal by Japanese Flag .....	589
[CONVERSION TABLE OF LENGTH, WEIGHT, VOLUME, AREA AND HEATING VALUE] .....	590
[Abbreviation and It's Spellout Words of Nomenclature in the Coal Industry] .....	591