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Major Projects Inventory

MARCH 1983

Office of Industrial and Regional Benefits



Government
of Canada

Gouvernement
du Canada

Industry, Trade
and Commerce

Industrie
et Commerce

and Regional
Economic Expansion

et Expansion
économique régionale

The information in this publication was assembled by the **Office of Industrial and Regional Benefits**. The Office was created in 1981 to identify the opportunities promised by major project developments in Canada and to help translate these opportunities into economic benefits for Canadians in all parts of the country. Through consultations with major project sponsors, the Office ensures that competitive Canadian suppliers of goods and services have full and fair access to major project opportunities. It also promotes the development of Canadian suppliers, where economically warranted, to meet project demand. Another of the Office's functions is to encourage the exchange of information between project sponsors and Canadian companies so that project sponsors will be better aware of Canadian suppliers and Canadian suppliers better informed of project opportunities.

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INTRODUCTION

This publication, an update of our first inventory published in October, 1981, attempts to present a complete picture of existing and potential major project activity in Canada during the next decade. It has been produced primarily for the benefit of Canadian suppliers to major projects, but should prove helpful also to project sponsors and potential investors, to all governments in Canada and to economic analysts and others concerned with projecting future levels of economic activity across the country.

The inventory provides rudimentary, but necessary, information for Canadian firms seeking to take advantage of major project opportunities. It lists projects with a minimum investment value of \$100 million that, according to public reports, are under way or could start in Canada before 1993. Commercial building projects are excluded.

The central listing describes each project, indicates its status and assigns it a degree of probability. Projects are listed under one of seven industry groupings and are also arranged according to size of investment and geographical location. As an additional aid to potential Canadian suppliers, available information on requirements for materials, equipment and services is provided. In general, nearly-completed projects whose supply requirements have all been met are not listed. As a pointer to possible additional activity in the future, there is a short, separate listing of projects from the 1981 inventory that have been deferred or suspended indefinitely. An explanation of the format and the terms used in the central listing may be found on the next page.

At the back of the inventory is an address list of all sponsor companies, with a contact name for each project. This is intended to encourage would-be Canadian suppliers to make their own direct approaches to sponsors.

The inventory has been compiled from a variety of sources but most of the material was generously contributed by the project sponsors. Every effort has been made to present current information but, due to changing economic conditions and the inevitable time lag between receipt and publication of data, some details may already be out of date. Further verification with the sponsor companies is therefore recommended before using the information as the basis of any business decision. It should also be remembered that listing of a particular project in this inventory is no guarantee of the project's eventual start or completion.

If we have failed to identify any eligible major projects in our listing, we will be happy to include them in future issues. New information and queries concerning the content of this publication should be directed to:

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EXPLANATION OF FORMAT AND TERMS USED

Investment Values

As far as possible, are quoted in constant 1982 dollars excluding Allowance for Cost of Funds Used During Construction.

Project Numbers

All projects have been assigned new numbers. Project numbers used in the 1981 inventory are indicated in brackets under the new numbers. (N) indicates project was not listed in the 1981 inventory.

Industry, Investment Categories

Each project is listed under one of seven industry groupings. Each industry grouping is subdivided into projects of \$500 million or more and those between \$100 million and \$500 million in investment value. For easy identification, the industry and investment value categories are indicated at the top of each page.

Geographical Locations

Within each of the two categories above, projects are also grouped by geographical, including offshore, locations (starting with the Territories, then working east from B.C.) and within this grouping by investment value (highest value first). Double lines denote the end of one geographical location and the beginning of another. Inter-regional projects (involving more than one province or Territory) are also enclosed within double lines. In the case of some inter-regional projects, a primary province has been selected and underlined in the "Location" column.

MEPC

Denotes Management, Engineering, Procurement, Construction and refers to project engineering, design or management firms engaged for a project.

Committed Project 90% to 100% probable

- is under construction or is about to be started, or
- has received all necessary approvals from appropriate government regulatory agencies to allow it to proceed, or
- has been given approval by the company's Board to be started.

Planned Project 60% to 90% probable

- has received company approval "in principle", is currently being studied to confirm economic, marketing and technical viability, and is expected to become "committed" within the next few years, or
- is expected to become "committed" within the next few years based on secured markets, contracts, letters of intent, and/or established economic viability.

Possible Project 30% to 60% probable

- has been identified as a potentially attractive business opportunity and is the subject of preliminary technological, economic and market viability studies.

NUMBER OF PROJECTS AND INVESTMENT

BY INDUSTRY GROUPING

	<u>OVERALL TOTALS</u>		<u>Committed Projects</u>		<u>Planned Projects</u>		<u>Possible Projects</u>	
	<u>Number of Projects</u>	<u>Value '82 \$(millions)</u>	<u>No.</u>	<u>Value</u>	<u>No.</u>	<u>Value</u>	<u>No.</u>	<u>Value</u>
*HYDROCARBONS & PETROCHEMICALS	71	\$ 87,365	33	\$ 15,981	16	\$ 29,921	22	\$ 41,463
**ELECTRICAL GENERATION & DISTRIBUTION	45	\$ 64,910	22	\$ 28,913	8	\$ 11,652	**15	\$ 24,345
TRANSPORTATION	31	\$ 27,352	21	\$ 24,361	7	\$ 2,241	3	\$ 750
INDUSTRIAL MINERALS	31	\$ 9,525	9	\$ 2,785	13	\$ 3,025	9	\$ 3,715
PRIMARY METALS	18	\$ 7,068	9	\$ 2,895	2	\$ 460	7	\$ 3,713
METAL MINING	16	\$ 4,282	5	\$ 1,260	3	\$ 497	8	\$ 2,525
FOREST PRODUCTS	<u>10</u>	<u>\$ 2,245</u>	<u>6</u>	<u>\$ 1,336</u>	<u>1</u>	<u>\$ 299</u>	<u>3</u>	<u>\$ 610</u>
TOTALS	<u>222</u>	<u>\$202,747</u>	<u>105</u>	<u>\$ 77,531</u>	<u>50</u>	<u>\$ 48,095</u>	<u>67</u>	<u>\$ 77,121</u>

* Inclusion of competing project proposals has increased overall total of projects by two and of investment value by about \$2 billion.

** Includes two water development projects (#105 and 106).

NUMBER OF PROJECTS AND INVESTMENT

BY GEOGRAPHICAL LOCATION

	<u>OVERALL TOTALS</u>		<u>Committed Projects</u>		<u>Planned Projects</u>		<u>Possible Projects</u>	
	<u>Number of Projects</u>	<u>Value '82 \$(millions)</u>	<u>No.</u>	<u>Value</u>	<u>No.</u>	<u>Value</u>	<u>No.</u>	<u>Value</u>
TERRITORIES	13	\$ 17,147	7	\$ 4,459	3	\$ 2,178	3	\$ 10,510
* BRITISH COLUMBIA	45	\$ 28,551	13	\$ 6,112	13	\$ 8,432	19	\$ 14,007
ALBERTA	45	\$ 24,749	17	\$ 6,322	14	\$ 5,187	14	\$ 13,240
SASKATCHEWAN	8	\$ 3,065	4	\$ 1,640	-	-	4	\$ 1,425
MANITOBA	5	\$ 1,835	2	\$ 264	1	\$ 1,171	2	\$ 400
ONTARIO	33	\$ 15,521	23	\$ 13,425	5	\$ 1,271	5	\$ 825
QUEBEC	28	\$ 29,982	19	\$ 19,739	3	\$ 4,806	6	\$ 5,437
NEW BRUNSWICK	8	\$ 3,920	3	\$ 496	1	\$ 360	4	\$ 3,064
NOVA SCOTIA	15	\$ 12,873	8	\$ 2,573	4	\$ 2,300	3	\$ 8,000
NEWFOUNDLAND	6	\$ 12,160	1	\$ 450	3	\$ 9,550	2	\$ 2,160
INTER-REGIONAL	<u>16</u>	<u>\$ 52,944</u>	<u>8</u>	<u>\$ 22,051</u>	<u>3</u>	<u>\$ 12,840</u>	<u>5</u>	<u>\$ 18,053</u>
TOTALS	<u>222</u>	<u>\$202,747</u>	<u>105</u>	<u>\$ 77,531</u>	<u>50</u>	<u>\$ 48,095</u>	<u>67</u>	<u>\$ 77,121</u>

* Inclusion of competing project proposals has increased overall total of projects by two and of investment value by about \$2 billion.

N.B. Project expenditures are not all incurred in the region of the project but are distributed throughout Canada and among some foreign sources. If clear, the primary location of inter-regional projects (those involving more than one province or Territory) has been underlined in the inventory. The bulk of the investment in these projects will be centred in British Columbia, Alberta and the Territories.

HYDROCARBONS & PETROCHEMICALS \$500 MILLION AND OVER

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Tarslut Production Project	Offshore Beaufort Sea	Gulf Canada Resources Inc. (Gulf Canada Limited, operator, 40.55%), Dome Petroleum 33.48%, Norcen Energy Ltd. 15.70%, Mobil Oil Canada 6.25%, Canterra 4.02%	?	?	5,000+	1985/89	1 (N)
<u>DESCRIPTION:</u> Offshore (Beaufort Sea) oil production. Reserves being delineated.							
<u>STATUS:</u> Study under way to determine economic and technical feasibility. Field delineation drilling also under way.							
Committed _____ Planned _____ Possible <u>X</u>							
Dempster Gas Pipeline	Yukon/N.W.T.	Foothills Pipe Lines (Yukon) Ltd. (Nova 50%, Westcoast Transmission Co. Ltd. 50%)	6,000	130	5,000	1989/92	2 (126)
<u>DESCRIPTION:</u> To connect Mackenzie Delta gas with Foothills pipeline near Whitehorse, 34" dia., 1.2 bcf/d, 1200 km long.							
<u>STATUS:</u> Application to NEB complete, but project is not expected to be reviewed for some time depending upon progress of Alaska Highway Gas Pipeline (project 11), reserve discoveries and market demand.							
<u>SUPPLY REQUIREMENTS:</u> 1200 km of 34" dia. pipe, 10 - 29,000 HP compressor stations, about 20 - 34" mainline block valve assemblies.							
Committed _____ Planned _____ Possible <u>X</u>							
Arctic Pilot Project	Melville Island, Arctic N.W.T.	Petro-Canada (operator) 37.5%, Nova 25%, Dome 20%, Melville Shipping Ltd. 17.5%	23,000	254	1,578 (planned) and 428 (possible)	1984/87	3 (127)
<u>DESCRIPTION:</u> To demonstrate feasibility of producing and delivering 250 MMcf/d of natural gas as LNG from Melville Island to southern, or possibly European, markets. Includes: pipeline across M.I. (\$138 million), LNG facilities on M.I. (\$816 million), two 140,000 m ³ ice-breaking LNG carriers (\$624 million). Associated facilities: field development on M.I. by Panarctic Oils Limited (\$160 million) and possible regasification terminal in Quebec or N.S. by TransCanada Pipelines Ltd. (\$268 million).							
<u>STATUS:</u> Work should resume in 1983 following delay as a result of adjournment of NEB hearings to permit APP to evaluate potential markets in western Europe.							
<u>SUPPLY REQUIREMENTS:</u> 56 cm diameter, 160 ₃ km pipeline across M.I., one barge-mounted liquefaction plant producing 13,500 m ³ LNG/day, two storage barges having 100,000 m ³ LNG storage capacity each, two 140,000 m ³ Arctic Class 7 LNG carriers, plus natural gas processing facilities, LNG loading dock, support facilities at M.I.							
Committed _____ Planned <u>APP</u> Possible <u>southern terminal</u>							

HYDROCARBONS & PETROCHEMICALS \$500 MILLION AND OVER

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Dome Beaufort Exploration Program	Beaufort Sea off Mackenzie Delta	Dome Petroleum Ltd.	1,800	-	969	1982/87	4 (123)
<u>DESCRIPTION:</u> To drill offshore exploratory wells in the Beaufort Sea 1982-1987.							
<u>STATUS:</u> Drilling of initial wells under way.							
SUPPLY							
<u>REQUIREMENTS:</u> Casing, fuel, mud, well head equipment and related drilling supplies.							
Committed <input checked="" type="checkbox"/> Planned _____ Possible _____							
Esso Beaufort Sea Offshore Exploration	Beaufort Sea	Esso Resources Canada Limited 10% Home Oil et al 90%	1,250	250	850	1981/85	5 (172)
<u>DESCRIPTION:</u> 5 year exploration program (1981-1985) on Esso Resources' Beaufort Sea and Mackenzie Delta lands. Program includes annual seismic programs, drilling seven offshore wells from artificial islands, and drilling six onshore wells.							
<u>STATUS:</u> Drilling of one offshore well at West Atkinson completed. Construction of Itiyok and Kadluk Islands started in July, 1982.							
SUPPLY							
<u>REQUIREMENTS:</u> Marine vessels (tugs and barges), trailer suction hopper dredge, cranes, heavy construction equipment, drilling rig and supplies.							
Committed <input checked="" type="checkbox"/> Planned _____ Possible _____							
Arctic Exploration	Vicinity of Melville, Bathurst, Eilef Ringnes Islands in High Arctic, N.W.T.	Panarctic Oils Ltd. (representing 67 companies)	n/a	500	700	1982/85	6 (N)
<u>DESCRIPTION:</u> Twenty agreements covering more than 14 million hectares. Panarctic will drill 25 wells in next five years, 17 offshore wells from ice platforms and eight wells onshore.							
<u>STATUS:</u> Drilling expected to start in 1983.							
Committed <input checked="" type="checkbox"/> Planned _____ Possible _____							

HYDROCARBONS & PETROCHEMICALS \$500 MILLION AND OVER

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Gulf Beaufort Sea Drilling System	Beaufort Sea	Gulf Canada Resources Inc	2,000+	500	674	1981/84	7 (129)
<u>DESCRIPTION:</u> Construction of drilling system for use in exploring the Beaufort Sea. Consists of floating conical drill unit and mobile Arctic caisson plus supporting icebreakers, supply vessels and base.							
<u>STATUS:</u> Under construction.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Norman Wells Oil Field Development	Norman Wells, N.W.T.	Esso Resources Canada Limited	2,000	174	630	1982/85	8 (130)
<u>DESCRIPTION:</u> 25,000 b/d oil field development including island construction, drilling 150 wells, pipeline gathering system, and oil, gas and water treatment facilities. See project 39.							
<u>STATUS:</u> Drilling started, major engineering and construction contracts awarded, major equipment purchased, mobilization of major construction equipment under way.							
<u>MEPC:</u> Partec Lavalin (processing facilities). Northern Construction and Loram (island and pipeline construction).							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Parsons Lake Gas Plant	Mackenzie Delta, N.W.T.	Gulf Canada Resources Inc.	2,800	120	510	1988/92	9 (131)
<u>DESCRIPTION:</u> 300 MMcf/d gas plant processing Parsons Lake Gas Field reserves.							
<u>STATUS:</u> Awaiting transportation system to deliver gas to market. Pipeline construction up the Mackenzie Delta is on hold following Berger hearings.							
Committed <input type="checkbox"/> Planned <input type="checkbox"/> Possible <input checked="" type="checkbox"/>							

HYDROCARBONS & PETROCHEMICALS \$500 MILLION AND OVER

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Polar Gas Pipeline	Ont., Man., Sask. and <u>N.W.T.</u>	Polar Gas Project (equal ownership: Trans Canada Pipelines Ltd., Ontario Energy Corp., Tenneco Oil Canada, Panarctic Oils Ltd., Petro-Canada)	36,426	793	13,000	1987/95	10 (124)
DESCRIPTION: To bring natural gas by large diameter pipeline from Arctic Islands and MacKenzie Delta/Beaufort Sea areas 5000 km to southern markets. Initial capacity 2.15 bcf/d, ultimate capacity of fully powered system 3.3 bcf/d.							
STATUS: Documentation in support of application nearing completion. Various alternatives under consideration. No decision has been made as to timing of filing applications with regulatory authorities.							
Committed <input type="checkbox"/> Planned <input type="checkbox"/> Possible <input checked="" type="checkbox"/>							
Alaska Highway Gas Pipeline	Yukon, B.C., Alta., Sask.	Foothills Pipe Lines (Yukon) Ltd. (Nova 50%, Westcoast Transmission Co. Ltd. 50%)	30,000	300	Phase 1: 1,000 Phase 2: 9,300	1985/89	11 (125)
DESCRIPTION: 48", 56", 42" & 36" pipeline to run from Prudhoe Bay through Yukon and Northern B.C. into Alberta where it will divide into two lines to take Alaskan gas to U.S. eastern and western markets. The Canadian portion of the pipeline exceeds 3423 km. See project 2.							
STATUS: A) Phase 1 western leg complete. Gas flow started October, 1981. B) Phase 1 eastern leg complete. Gas flow started September, 1982. C) Phase 2 (northern segment) engineering continuing and rescheduled to support 1989 completion. No major procurement and construction activity until 1984/85.							
SUPPLY REQUIREMENTS: For Phase 2: pipe, valves, fittings, compressor station equipment, construction equipment, trucks, welders, pipe laying and pipe wrapping equipment, etc.							
Committed <u>Phase 1</u> Planned <u>Phase 2</u> Possible <input type="checkbox"/>							

HYDROCARBONS & PETROCHEMICALS \$500 MILLION AND OVER

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Western-LNG Project	B.C. coast	Potential sponsors include Dome Petroleum Ltd., Westcoast Transmission Company Limited (pipeline), TransCanada Pipelines Limited, NIC Resources Inc.	5,000	2,900	2,125 (excluding pipeline - project 15)	1983/86	12 (102)
<u>DESCRIPTION:</u> To liquefy 400 MMcf/d of B.C. and Alberta gas for transport to five Japanese utilities under 20-year contract. Project calls for construction of gas liquefaction terminal at Grassy Point nr. Prince Rupert (\$1,300 million); five tankers to transport LNG to Japan (\$825 million); and new gas pipeline across northern B.C. (project 15).							
<u>STATUS:</u> B.C. government chose this project over rival proposals (see project 13) mid-1982. NEB approved gas export application January, 1983.							
<u>SUPPLY REQUIREMENTS:</u> Five tankers, liquefaction plant, wharves, ancillary vessels, associated equipment and services.							
<u>MEPC:</u> AKCL Group (Associated-Kellogg Ltd., Commonwealth Construction Co. Ltd., Lavalin Inc.).							
Committed _____ Planned <u>X</u> Possible _____							
Rim Gas Project	B.C. coast	Petro-Canada 40%, Westcoast Transmission 40%, Mitsui and Co. Ltd. 20%	8,598	499	1,600	1983/87	13 (104)
<u>DESCRIPTION:</u> Export 250 MMcf/d of LNG to Japan, 270 MMcf/d liquefaction plant and four ships 125 thousand m ³ capacity and natural gas pipeline 800 km in length. Natural gas from B.C. gas fields to be transmitted in a new pipeline to a port on tidewater near Prince Rupert, B.C.							
<u>STATUS:</u> Proposal filed with B.C. Government November, 1981. On July 15, 1982, B.C. Government announced support for alternative proposal headed by Dome Petroleum (projects 12 and 15). On August 9, 1982, consortium requested NEB not to proceed with its application for a gas export licence at this time and to maintain the application in a pending status until a hearing later.							
Committed _____ Planned _____ Possible <u>X</u>							

HYDROCARBONS & PETROCHEMICALS \$500 MILLION AND OVER

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
B.C. Petrochemical Plants	B.C.:	Canadian Occidental Petroleum Ltd. 30%, various locations coast and inland	10,000	600	1,500	1986/89	14 (103)

DESCRIPTION: Extraction plant, located in northeastern B.C., will process 16 million m³/day of "wet" gas to extract some 3620 m³/day of natural gas liquids (ethane, propane, butane, pentanes). Ethane and some of the propane will be pipelined to the coast, to be used as feedstock to produce 270,000 tonnes of ethylene per year. Remaining natural gas liquids will be sold to domestic and export markets. A petrochemical complex, at a site not yet selected, will upgrade the ethylene to produce varying quantities of ethylene dichloride, vinyl chloride monomer and polyethylene. A chlor-alkali plant will be built with the petrochemical plant or chlorine will be purchased from others. Extraction plant will be owned 50% each by Dome and Westcoast.

STATUS: Requires B.C. government approval and internal corporate approvals; preliminary application filed in 1982. Depends upon markets for products manufactured and price for feedstock. Extremely low probability at present time.

Committed _____ Planned _____ Possible X

Western-LNG Natural Gas Pipeline	B.C.	Westcoast Transmission Company Limited	1,500	24	'85 828	Phase 1 1984/85	15 (N)
					'86 196	" 2 /86	
					'88 15	" 3 /88	
					'89 21	" 4 /89	
					Total 1,060		

DESCRIPTION: 870 km natural gas pipeline from northeastern B.C. to proposed LNG plant near Prince Rupert. See project 12.

STATUS: NEB approval being sought.

SUPPLY REQUIREMENTS: 870 km 26" grade 483 pipe, six compressor stations, two meter stations, communications and tele-control facilities, one maintenance/operations base.

Committed _____ Planned X Possible _____

HYDROCARBONS & PETROCHEMICALS \$500 MILLION AND OVER

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Powell River Nitrogen Fertilizer Complex	Powell River, B.C.	Westcoast Transmission Company Limited 25% British Columbia Resources Investment Corporation 25% Chieftain Development Company Ltd. 25% Union Oil Company of California 25%	2,000	100	675	1983/1985	16 (106)

DESCRIPTION: Nitrogen fertilizer complex at west coast tidewater port of Powell River, B.C.: 1600 tonnes per day ammonia plant, 1600 tonnes per day urea plant, shipping terminal and storage area.

STATUS: Proposal made to B.C. Government late 1981. In July, 1982, B.C. Government announced 400 bcf of province's natural gas surplus to be allocated to provincial ammonia-urea plant. Proposal conditional upon construction of natural gas pipeline to Vancouver Island (see projects 40 and 41). Terms of reference for public hearing regarding pipeline project expected shortly.

Committed Planned Possible

Trans Mountain Oil Pipe Line	Vancouver, B.C. to Edmonton, Alta.	Trans Mountain Pipe Line Company Ltd.	?	?	875	1985/87	17 (105)
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DESCRIPTION: A 30" dia. oil pipeline from Low Point, Washington to Edmonton, Alberta, 1127 km along the present Trans Mountain right of way, with capacity of 500,000 b/d.

STATUS: The State of Washington Energy Facilities Site Evaluation Council has extended commencement of hearing date to July 26, 1984. Company has asked NEB to hold Cabinet approval in abeyance until then.

SUPPLY REQUIREMENTS: 1127 km of 30" dia. oil pipe.

Committed Planned Possible

Constar Oil Sands	Near Fort McMurray, Alta.	Petro-Canada 50%, Nova 50%	?	?	6,500	?	18 (110)
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DESCRIPTION: Oil sands mining in Athabasca region of N.E. Alberta. Bitumen extraction. Upgrading to synthetic crude. Shipping via pipeline to Edmonton. Projected volume 130,000 - 140,000 b/d.

STATUS: Project remains in study stage with staff reduced to 30 from 120 personnel.

Committed Planned Possible

HYDROCARBONS & PETROCHEMICALS \$500 MILLION AND OVER

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Peace River Oil Sands Development	Peace River, Alta.	Shell Canada Resources Limited	?	?	2,000+	1988/94	19 (109)
<u>DESCRIPTION:</u> Potential size 6,000 - 24,000 m ³ /d In-situ or mining.							
<u>STATUS:</u> In definition phase.							
Committed _____ Planned _____ Possible <u>X</u>							
Alberta Gas Pipeline Network Expansion	Alberta	Nova, An Alberta Corporation	?	956	1,200	1982/91	20 (N)
<u>DESCRIPTION:</u> Expansion of gas transmission pipeline network in Alberta - 10 year forecast.							
<u>STATUS:</u> Planning and scheduling continues.							
<u>SUPPLY</u>							
<u>REQUIREMENTS:</u> Pipe, valves, fittings, compressor station equipment, construction equipment, camp buildings and services, etc.							
Committed _____ Planned <u>X</u> Possible _____							
Shell Synthetic Crude Oil Refinery and Benzene Plant	Scotford, Alta.	Shell Canada Ltd.	5,000	270	1,026	1981/84	21 (114)
<u>DESCRIPTION:</u> Refinery unit will have initial capacity of 50,000 b/d with expansion to 70,000 b/d. Pipelines would include those for feedstock and products. Benzene plant will have capacity of 670 tonnes/day.							
<u>STATUS:</u> Under construction.							
<u>MEPC:</u> PCL-Braun-Simons Ltd.							
Committed <u>X</u> Planned _____ Possible _____							

HYDROCARBONS & PETROCHEMICALS \$500 MILLION AND OVER

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Joffre Ethylene Plant III	Joffre, Alta.	Alberta Gas Ethylene Co. Ltd.	1,810	95	710	1984/86	22 (141)
<u>DESCRIPTION:</u> Construction and operation of ethylene plant and related facilities to produce 680 kt/a (1.5 billion lbs/a) of polymer grade ethylene. See project 25.							
<u>STATUS:</u> In planning stage.							
Committed _____ Planned <u>X</u> Possible _____							
Redwater Ethylene Plant	Redwater, Alta.	Esso Chemical Canada 33 1/3%, Alberta Energy Co. Ltd. 33 1/3%, Hudson's Bay Oil & Gas Co. Ltd. 33 1/3%	?	300	700+	1987/91	23 (N)
<u>DESCRIPTION:</u> World scale ethylene plant with 700 kt capacity.							
<u>STATUS:</u> Under study. Original timing deferred in order to further study the project and market opportunity.							
<u>SUPPLY REQUIREMENTS:</u> Piping.							
Committed _____ Planned _____ Possible <u>X</u>							
Biewag Fuel Grade Methanol Plant	Waskatenau, Alta.	Biewag Energy Resources Ltd. (operating company of West German parent)	1,400	150	700	1983/85	24 (N)
<u>DESCRIPTION:</u> 5000 t/d methanol facility. All product to be exported to Europe.							
<u>STATUS:</u> AERC8 development permit conditional on approval of sales contract by Alberta Department of Economic Development.							
<u>SUPPLY REQUIREMENTS:</u> Process equipment, engineering services.							
Committed _____ Planned _____ Possible <u>X</u>							

HYDROCARBONS & PETROCHEMICALS \$500 MILLION AND OVER

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Joffre Ethylene Plant II	Joffre, Alta.	Alberta Gas Ethylene Co. Ltd.	1,800	95	557	1982/84	25 (140)
<u>DESCRIPTION:</u> Construction and operation of ethylene plant and related facilities to produce 680 kt/a (1.5 billion lbs/a) of polymer grade ethylene. See project 22.							
<u>STATUS:</u> Under construction. Mechanical completion expected by July, 1984.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Clover Bar Acetic Acid/Vinyl Acetate Plant	Clover Bar, nr. Edmonton, Alta.	Celanese Canada Inc.	1,920	148	508	1984/87	26 (N)
<u>DESCRIPTION:</u> Capacity: acetic acid 365 kt/yr, vinyl acetate 400 kt/yr.							
<u>STATUS:</u> Still in planning stage - capacities and timing given are not finalized and are subject to change. Preliminary engineering work proceeding but construction schedule delayed.							
Committed <input type="checkbox"/> Planned <input checked="" type="checkbox"/> Possible <input type="checkbox"/>							
Husky BI-Provincial Upgrading & Production Project	Sask. & Alta.	Husky Oil Operations Ltd.	<u>Upgrader:</u> 4,450 <u>Production:</u> 15,653	300 3,600	1,100 2,100	1983/87 1982/2000	27 (N)
<u>DESCRIPTION:</u> BI-provincial heavy oil production and upgrading project based on production of heavy crude oil from Lloydminster area in Saskatchewan and Lloydminster/Cold Lake area in Alberta. Existing Lloydminster refining facilities in Alberta would be linked with new upgrading facilities to be constructed in Saskatchewan, resulting in combined production and upgrader complex with capacity of 8000 m ³ (50,320 barrels) per day.							
<u>STATUS:</u> Formal proposals currently before federal and provincial governments.							
<u>SUPPLY REQUIREMENTS:</u> Pressure vessels, towers, heat exchangers, air coolers, pumps and blowers, furnaces, compressors, tanks, high pressure reactors, piping, valves, computers, buildings. Large diameter pipe, steam injection systems, fireflood injection systems, well completion equipment. Engineering, construction and financial services.							
Committed <input type="checkbox"/> Planned <input checked="" type="checkbox"/> Possible <input type="checkbox"/>							

HYDROCARBONS & PETROCHEMICALS \$500 MILLION AND OVER

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Quebec Natural Gas Distribution Network	Quebec	Gaz Métropolitain Inc., Gaz Inter-Cité Québec Inc.	8,800	?	1,000	1982/86	28 (N)
<u>DESCRIPTION:</u> Extension of natural gas distribution network into the two areas served by Gaz Métropolitain and Gaz Inter-Cité Québec. See projects 29, 64.							
<u>STATUS:</u> Under construction.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Trans Quebec Maritimes Pipeline	Quebec/ New Brunswick/ Nova Scotia	Gazoduc Trans Quebec & Maritimes Inc. (TransCanada PipeLines Ltd. and Nova)	3,620	?	1,515	1981/90	29 (119)
<u>DESCRIPTION:</u> Gas pipeline from Montreal to Quebec City, then possibly to Halifax and Glace Bay. See projects 28, 64.							
<u>STATUS:</u> Saint-Lazare/Boisbriand section: completed February, 1982. Boisbriand/Trois-Rivières section: scheduled for completion November, 1982. Trois-Rivières/Quebec section: under construction, scheduled for completion summer, 1983.							
<u>SUPPLY REQUIREMENTS:</u> Piping; welding, transportation and safety equipment.							
Committed <input type="checkbox"/> <u>Saint-Lazare/Quebec</u> Planned <input type="checkbox"/> Possible <input type="checkbox"/> <u>Quebec/Halifax</u>							
Offshore Sable Island-Venture Gas Development	Offshore, N.S.	Mobil Oil Canada Ltd. (operator) 31.5%, Petro-Canada 35.0%, N.S. 20.0%, Texaco Canada Inc., 13.5%	?	?	2,000	1983/87	30 (120)
<u>DESCRIPTION:</u> Offshore gas production and offshore central facility, submarine pipeline to shore, onshore gas plant facility. Raw gas production in the range of 500 MMcf/d ⁺ .							
<u>STATUS:</u> Appraisal drilling and project planning under way.							
Committed <input type="checkbox"/> Planned <input checked="" type="checkbox"/> Possible <input type="checkbox"/>							

HYDROCARBONS & PETROCHEMICALS \$500 MILLION AND OVER

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Scotian Shelf Exploration: Program 2	On Scotian Shelf off Nova Scotia	Shell Canada Resources Limited, operator. Other major owners: Shell Explorer Ltd., Canterra Energy Ltd., Petro-Canada Exploration Inc., Sulpetro Ltd. Other participants: Mobil Oil Canada Ltd., Texaco Canada Resources Ltd., Texas Eastern Exploration of Canada Ltd.	n/a	475	551	1982/84-85	31 (N)
<u>DESCRIPTION:</u> Seven exploration agreements, each with three-year term, covering area of 1.9 million hectares. Drilling of nine exploration wells. Completion of 5,250 km of seismic work. Term for two of agreements will be extended one year if second drilling rig spuds a well before October 31, 1983. See project 32.							
<u>STATUS:</u> Program under way. Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Scotian Shelf Exploration: Program 1	N. of Sable Island off Nova Scotia	Petro-Canada Exploration Inc. 50%, Bow Valley Industries Ltd. 25%, Husky Oil Operations Ltd. 25%	n/a	?	500	1982/85	32 (N)
<u>DESCRIPTION:</u> Four exploration agreements, each to run for three years, covering area of 1.7 million hectares. Drilling of up to eight exploratory wells. Minimum of 3,000 km of seismic work in first two years. See project 31.							
<u>STATUS:</u> COGLA approved drilling of first well August, 1982. Feasibility and design studies under way for construction of common-user marine support facility in Nova Scotia. Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Hibernia Oil Development	Offshore, Nfld.	Mobil Oil Canada Ltd. (operator) 28%, Petro-Canada 25%, Gulf Canada Resources Inc. 25%, Chevron Standard Ltd. 16%, Columbia Gas Canada Ltd. 6%	?	?	6,000	1984/89	33 (121)
<u>DESCRIPTION:</u> Offshore oil production & transportation system for facility producing 200,000-300,000 bopd. Reserves estimated at one billion barrels minimum.							
<u>STATUS:</u> Delineation drilling and feasibility studies under way. Dispute over jurisdiction causing delays. Committed <input type="checkbox"/> Planned <input checked="" type="checkbox"/> Possible <input type="checkbox"/>							

HYDROCARBONS & PETROCHEMICALS \$500 MILLION AND OVER

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
East Coast Gas Liquids (Olefins)	Atlantic Provinces	Gulf Canada Ltd., Petro-Canada	?	?	750	1988/92	34 (132)
<u>DESCRIPTION:</u> 0.7 billion kg/yr. ethylene plant.							
<u>STATUS:</u> Continuing joint study to determine economic feasibility.							
Committed _____ Planned _____ Possible <u>X</u>							
Gulf Lubricating Oil Plant	To be determined	Gulf Canada Ltd.	?	?	500	?	35 (133)
<u>DESCRIPTION:</u> 1 million b/yr. lubricating oil plant.							
<u>STATUS:</u> Feasibility being studied.							
Committed _____ Planned _____ Possible <u>X</u>							

HYDROCARBONS & PETROCHEMICALS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Gulf Beaufort Sea Exploration	Beaufort Sea	Gulf Canada Resources Inc. Principal partners: Canterra Energy Ltd., Dome Petroleum Ltd., Mobil Oil Canada Ltd., Westmin Resources Ltd, Norcen Energy Resources Ltd., Petro-Canada Exploration Inc.	-	500 (peak employment)	436 (operating cost)	1983/87-89	36 (N)
<u>DESCRIPTION:</u> Five-year program, which can be extended to a maximum of seven years if Gulf increases its drilling commitment beyond five wells, of oil and gas exploration covering 637,000 hectares in the Beaufort Sea.							
<u>STATUS:</u> Drilling to start this year. Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Dome Beaufort Sea Oil Pilot Development	Beaufort Sea off Mackenzie Delta, N.W.T.	Dome Petroleum Ltd.	?	?	400	1983/87	37 (N)
<u>DESCRIPTION:</u> Pilot project to ship volumes of oil from Beaufort Sea offshore islands to test systems for ships, wells, and production facilities.							
<u>STATUS:</u> Planning and feasibility analysis under way, as well as preliminary engineering work in some areas.							
<u>SUPPLY REQUIREMENTS:</u> Offshore drilling and production structures, icebreaking tanker, drilling materials, modular oil and gas production equipment. Committed <input type="checkbox"/> Planned <input checked="" type="checkbox"/> Possible <input type="checkbox"/>							
Davis Strait Exploration	In Davis Strait between Greenland and Baffin Island, N.W.T.	Canterra Energy Ltd. Other participants: PanCanadian Petroleum Limited, Société québécoise d'initiatives pétrolières (SQQUIP), Home Oil Company Limited, Murphy Oil Company Limited, Hudson's Bay Oil and Gas Company Limited, Petro-Canada Exploration Inc.	n/a	350	200	1982/86	38 (N)
<u>DESCRIPTION:</u> Five-year agreement on 800,000 hectares involving two wells. COGLA approved drilling of first test July, 1982.							
<u>STATUS:</u> Program under way. Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							

HYDROCARBONS & PETROCHEMICALS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Norman Wells Oil Pipeline	Norman Wells, N.W.T., to Zama, Alta.	Interprovincial Pipe Line (NW) Ltd.	800	26	467	1983/85	39 (171)
DESCRIPTION: 868.5 km of 323.9 mm O.D. buried crude oil line from Norman Wells, N.W.T., to Zama, Alberta, together with three diesel-powered pump stations, maintenance depots and communication/control system. See project 8.							
STATUS: Additional field studies for environmental and geotechnical purposes completed. Logistics planning under way for main construction to start winter, 1983/84. Completion scheduled for July, 1985. Some preclearing might get under way winter, 1982/83.							
SUPPLY REQUIREMENTS: Grade 52 pipe, three diesel pump stations (each approx. 1000 HP), associated yard piping 3" to 8" size, valves, fittings, flanges, insulated steel buildings, radio/telephone communication system, supervisory control.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							

Vancouver Island Gas Pipeline: Westcoast Proposal	B.C. Mainland to Vancouver Island	Westcoast Transmission Company Limited	1,000	28	418	?	40 (N)
DESCRIPTION: Construction of gas pipeline to Vancouver Island via northern route. Would include 661 km (411 miles) of transmission pipeline and twin submarine pipelines across 32 km (20 miles) section of the Strait of Georgia. One of several proposals. See project 41.							
STATUS: Pre-public hearing by provincial government into technical and economic feasibility of various applicants' proposals under way 1982. Completion of enquiry was expected December, 1982. B.C. Utilities Commission was then scheduled to hold public hearings.							
SUPPLY REQUIREMENTS: 661 km (411 miles) of pipe (mainly 16" O.D. grade 483), one multi-unit compressor station, five meter stations.							
Committed <input type="checkbox"/> Planned <input type="checkbox"/> Possible <input checked="" type="checkbox"/>							

HYDROCARBONS & PETROCHEMICALS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Vancouver Island Gas Pipeline: B.C. Hydro Proposal	B.C. Mainland to Vancouver Island	B.C. Hydro	1,400	120	352	1983/85	41 (138)

DESCRIPTION: Extension of gas transmission and distribution system to Vancouver Island via southern route. One of several proposals. See project 40.

STATUS: Pre-public hearing by provincial government into technical and economic feasibility of various applicants' proposals under way 1982. Completion of enquiry was expected December, 1982. B.C. Utilities Commission was then scheduled to hold public hearings.

SUPPLY REQUIREMENTS: Gas transmission steel pipe (6" to 20"), plastic gas distribution pipe, compressors.

Committed Planned Possible

Kitimat NH₃/Urea Fertilizer	Kitimat, B.C.	Ocelot Industries Ltd.	1,200	100	330	1983/86	42 (N)
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DESCRIPTION: 1100 STPD NH₃ plant, 1200 STPD urea plant and related offsite and shipping facilities.

STATUS: Preliminary engineering complete. B.C. Government approval required.

SUPPLY REQUIREMENTS: Pipe, pressure vessels, compressors, pumps, instrumentation, structural steel, etc. for typical petrochemical plant.

MEPC: AKL - SNC/FW

Committed Planned Possible

HYDROCARBONS & PETROCHEMICALS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Prince Rupert Petrochemical Terminal	Prince Rupert, B.C.	Transtec Canada Ltd./Simon TR Holdings Ltd. of the U.K. (developer/operator) through leasing arrangements with B.C. Development Corp., Ports Canada, CN Rail	?	?	100?	?	43 (N)

DESCRIPTION: Liquid bulk and petrochemical terminal to handle between 500,000 and one million tonnes of Alberta and B.C. petrochemicals and refined petroleum products annually.

STATUS: Agreement between federal, B.C., Alberta governments announced February, 1982. Developer/operator undertaking advanced planning studies. Project delayed because of market uncertainty.

SUPPLY
REQUIREMENTS: Tanks, piping, valves, etc.

MEPC: Simon TR Holdings Ltd.
Committed _____ Planned _____ Possible X

Esso Nitrogenous Fertilizer Plant	Redwater, Alta.	Esso Chemical Canada	1,500	150	450	1981/83	44 (139)
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DESCRIPTION: 527 kt ammonia/492 kt urea capacity fertilizer plant (world scale).

STATUS: Under construction - approximately 70% complete.

SUPPLY
REQUIREMENTS: Piping

MEPC: Bechtel
Committed X Planned _____ Possible _____

HYDROCARBONS & PETROCHEMICALS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Shell Styrene Monomer Plant	Scotford, Alta	Shell Canada Ltd.	600	130	320	1981/84	45 (152)
<u>DESCRIPTION:</u> The plant is designed to produce 300,000 tonnes/year of styrene monomer from ethylene and benzene, using Mobil/Badger/Cosden technology. Location is adjacent to Shell's new refinery which will supply benzene feedstock.							
<u>STATUS:</u> All the necessary government approvals have been obtained. Construction is under way, and was about 15% complete at the end of September, 1982.							
<u>MEPC:</u> Canadian Badger Co. Ltd. Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Sherritt Gordon Nitrogen Fertilizer Plant	Fort Saskatchewan, Alta.	Sherritt Gordon Mines Limited	1,575	140	319	1980/83	46 (145)
<u>DESCRIPTION:</u> World scale, nitrogen fertilizer plant: 1100 ton-per-day ammonia, 1000 ton-per-day urea.							
<u>STATUS:</u> Under construction.							
<u>MEPC:</u> Canadian Kellogg Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Cold Lake In-situ Oil Sands Project	Cold Lake area, Alta.	Esso Resources Canada Limited	?	?	300+	1986/90	47 (108)
<u>DESCRIPTION:</u> Original project of 24,000 m ³ /d bitumen is being restudied for development on a reduced scale and on a staged basis. Size and timing under development.							
<u>STATUS:</u> Under development. Committed <input type="checkbox"/> Planned <input type="checkbox"/> Possible <input checked="" type="checkbox"/>							

HYDROCARBONS & PETROCHEMICALS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Union Carbide Ethylene Derivatives Plant	Prentiss, Alta.	Union Carbide Corporation	800	120	300	1981/84	48 (143)
<u>DESCRIPTION:</u> Ethylene glycol plant. 226 million kg/yr.							
<u>STATUS:</u> 40% completed. Expected start-up: mid-1984.							
<u>MEPC:</u> Fluor							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Strathcona Refinery Expansion	Edmonton, Alta.	Imperial Oil Ltd.	1,260	65	290	1981/83	49 (157)
<u>DESCRIPTION:</u> Phase I: Refinery expansion to balance present crude running capability by the addition of conversion, recovery and treating facilities to meet increasing turbo fuel and low temperature diesel fuels. Phase II: Expansion to double the present refinery's asphalt production from Cold Lake bitumen.							
<u>STATUS:</u> Detailed engineering virtually complete. Material procurement 80+% complete. Construction approximately 40% complete.							
<u>MEPC:</u> Associated Kellogg Limited and Kilborn Limited							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Shell Linear Higher Olefins Plant	Scotford, Alta.	Shell Canada Limited	700	90	275	1983/85	50 (N)
<u>DESCRIPTION:</u> Would be designed to produce 200,000 tonne/year of linear higher olefins from ethylene, using Shell technology.							
<u>STATUS:</u> The project still under internal study. Alberta government approval to proceed has been obtained.							
Committed <input type="checkbox"/> Planned <input checked="" type="checkbox"/> Possible <input type="checkbox"/>							

HYDROCARBONS & PETROCHEMICALS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Gibbons Linear Polyethylene Plant	Gibbons, Alta.	Alberta Energy Co. Ltd. 50%, Du Pont Canada Inc., technology and marketing, 50%	450	150	260	1983/86	51 (N)
<u>DESCRIPTION:</u> 225 kt/yr.							
<u>STATUS:</u> In process design stage.							
<u>SUPPLY</u>							
<u>REQUIREMENTS:</u> MEPC contractor, process equipment.							
Committed _____ Planned <u>X</u> Possible _____							
Novacor Polyethylene Plant	Joffre, Alta.	Novacor Polyethylene (LLD) Ltd.	700	150	260	1982/84	52 (154)
<u>DESCRIPTION:</u> Linear low density polyethylene plant employing Union Carbide Corporation's "UNIPOL" technology to produce 270 kt/yr.							
<u>STATUS:</u> Under construction. Engineering 50% complete and on schedule.							
<u>MEPC:</u> Fluor Canada Ltd.							
Committed <u>X</u> Planned _____ Possible _____							
Gulf Refinery Expansion — Edmonton	Edmonton, Alta.	Gulf Canada Ltd.	?	?	240	1980/83	53 (148)
<u>DESCRIPTION:</u> 40,000 b/d synthetic crude processing facilities.							
<u>STATUS:</u> Phase I complete and on stream. Phase II to be completed in 1983.							
<u>MEPC:</u> Bechtel							
Committed <u>X</u> Planned _____ Possible _____							

HYDROCARBONS & PETROCHEMICALS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Gulf Benzene Plant — Edmonton	Edmonton, Alta.	Gulf Canada Ltd.	1,200	30	200	1983/86	54 (147/153)
<u>DESCRIPTION:</u> 1600 B/D aromatics plant.							
<u>STATUS:</u> Feasibility study continuing.							
Committed _____ Planned _____ Possible <u>X</u>							
Syncrude Debottlenecking Project	Fort McMurray, Alta.	Syncrude Canada Ltd. (Esso Resources Canada Ltd. 25%, Petro-Canada 17%, Alberta Oil & Gas Equity 16.74%, Canada-Cities Service Ltd. 13.23%, Alberta Energy Co. Ltd. 10%, Gulf Canada Resources Inc. 9.03%, Hudson's Bay Oil & Gas Co. Ltd. 5%, PanCanadian Petroleum Co. 4%)	?	?	180	1983/86	55 (N)
<u>DESCRIPTION:</u> Debottlenecking project to boost production of Syncrude's oil sands plant by 10,000 b/d to 119,000 b/d.							
<u>STATUS:</u> Could start in 1983.							
Committed _____ Planned <u>X</u> Possible _____							
Wolf Lake Oil Sands Project	Wolf Lake, 55 km N.W. of Cold Lake, Alta.	BP Exploration Canada Ltd. 70%, Hudson's Bay Oil & Gas Co. Ltd. 17½%, Pan Canadian 12½%	900	200	165	1982/84	56 (N)
<u>DESCRIPTION:</u> In-situ oil sands project to produce 7,000 barrels per day of bitumen.							
<u>STATUS:</u> Engineering completed. Tendering process under way.							
<u>SUPPLY REQUIREMENTS:</u> Engineering/management, drilling equipment, field facilities (wellheads, piping, etc.), road building equipment, central plant (steam generators, water conditioners, separators).							
Committed <u>X</u> Planned _____ Possible _____							

HYDROCARBONS & PETROCHEMICALS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Edmonton Polyethylene Plant Expansion	Edmonton, Alta.	Canadian Industries Ltd. (50%) Trimac, Calgary (50%)	500	100	150	?	57 (156)
<u>DESCRIPTION:</u> 100,000 tonnes high density polyethylene.							
<u>STATUS:</u> Engineering design completed. Under review because of uncertain market conditions. Possibly some resolution by January, 1983.							
Committed _____ Planned _____ Possible <u>X</u>							
Judy Creek 'A' & 'B' Pool Miscible Flood	Swan Hills, Alta.	Esso Resources Canada Limited (major operator) Several other participants sharing up to 25%.	50 - 100	10	150	1984/85	58 (113)
<u>DESCRIPTION:</u> Modification/construction of field facilities and reactivation of wells for hydrocarbon miscible flood to recover over 60 million barrels of oil from Judy Creek 'A' and 'B' pool reservoirs.							
<u>STATUS:</u> 'A' Pool: Comprehensive technical and economic forecasts in place. Awaiting resolution of changes to Alberta's enhanced recovery incentive system before making decision to proceed with detailed engineering. 'B' Pool: Awaiting 'A' pool project implementation.							
<u>SUPPLY REQUIREMENTS:</u> Conventional hydrocarbon recovery facilities, pipeline and pumping equipment.							
Committed _____ Planned _____ Possible <u>X</u>							
Suncor Plant Integrity Project	Fort McMurray, Alta.	Suncor Inc. Resources Group	721	0	103	1982/84	59 (N)
<u>DESCRIPTION:</u> Consists of compressor house rebuild, auxiliary steam facility, process control system, water treatment and boiler revamp.							
<u>STATUS:</u> Compressor house completed, auxiliary steam facility almost completed. Work on other aspects in early stages only.							
<u>SUPPLY REQUIREMENTS:</u> Four auxiliary boilers, heating and ventilation, structural steel siding, electrical instrumentation, valves, pipes and fittings, tanks, pumps, drivers, analysers, tubes, structural steel, insulation, control room, digital control system, critical alarm and shutdown system, control wiring.							
<u>MEPC:</u> Bechtel, Foster Wheeler							
Committed <u>X</u> Planned _____ Possible _____							

HYDROCARBONS & PETROCHEMICALS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Suncor Hydrocracker Complex	Sarnia, Ont.	Suncor Inc., Sunoco Group	800	100	335	1982/84	60 (163)

DESCRIPTION: Residual oil upgrading: 20,000 b/d.

STATUS: Design engineering 75% complete. Field construction under way.

SUPPLY REQUIREMENTS: Typical major equipment and bulk materials for hydrocracker complex.

MEPC: SNC/FW Ltd., Partec Lavalin.

Committed Planned Possible

C-I-L Ammonia Plant Expansion	Courtright, near Sarnia, Ontario	C-I-L Inc.	400	20	217	1982/84	61 (N)
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DESCRIPTION: Doubling of plant capacity: 373 kt/yr expansion.

STATUS: Construction slowed. All major equipment ordered.

SUPPLY REQUIREMENTS: Process equipment.

MEPC: M. W. Kellogg

Committed Planned Possible

HYDROCARBONS & PETROCHEMICALS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Polysar Butyl Rubber Plant Expansion	Sarnia, Ont.	Polysar Ltd.	830	150	205	1980/83	62 (162)

DESCRIPTION: General purpose butyl rubber plant, consisting of feed preparation, reaction, recovery of unreacted feed and catalyst materials and finishing of the product. Utilities such as steam, water, effluent disposal etc., are supplied by the existing facilities.

STATUS: 70% complete. Major categories of work remaining: piping, mechanical, electrical and instrument work.

SUPPLY

REQUIREMENTS: Small quantities of piping, electrical and instrument material; sub-contracts in project completion categories.

MEPC: Monenco Limited

Committed Planned Possible

Esso Linear Low Density Polyethylene Resin Plant	Sarnia, Ont.	Esso Chemical Canada	500	100	200	1981/83	63 (164)
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DESCRIPTION: 135 Mt/year LLDPE resin plant.

STATUS: Under construction.

SUPPLY

REQUIREMENTS: Piping, reactor vessels.

MEPC: Lummus

Committed Planned Possible

HYDROCARBONS & PETROCHEMICALS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Quebec Natural Gas Pipeline Laterals	Quebec	Gaz Inter-Cité Québec Inc. (SOQUIP 51%, Inter City Gas Corporation, Winnipeg 49%)	1,200	?	485	1983/85	64 (N)
<u>DESCRIPTION:</u> Construction of laterals from main TQM line to different areas of Quebec. Total length about 690 km. Does not include branch-lines forming part of distribution network. See projects 28, 29.							
<u>STATUS:</u> Federal government has agreed to provide \$500 million towards construction. Laterals serving Saint Jerome, Joliette, Louisville, Trois Rivières in service end of 1982. 1983 laterals will include Sabrevois to Sherbrooke to serve Eastern Townships, and from Trois Rivières to Grand-Mère and to Beaucourt. In 1984 laterals will be built from Grand-Mère to Lac Saint Jean and Saguenay regions, and in 1985 service will be extended to Drummondville and Asbestos.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Petromont Ethylene Plant Expansion	Varenes, Quebec	Petromont Inc.: Union Carbide Canada Ltd., Gulf Canada Ltd., Société générale de financement (Quebec government)	1,400	50	400	1986/88	65 (165)
<u>DESCRIPTION:</u> Expansion of ethylene capacity.							
<u>STATUS:</u> Petromont conducting feasibility study. Economic conditions have forced delay in project.							
Committed <input type="checkbox"/> Planned <input type="checkbox"/> Possible <input checked="" type="checkbox"/>							
Ultramar Catalytic Upgrader	St. Romuald, Quebec	Ultramar Canada Ltd.	700	35	200+	1980/83	66 (167)
<u>DESCRIPTION:</u> 20,000 b/d residuals.							
<u>STATUS:</u> Completion third quarter of 1983. On stream end of 1983.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							

HYDROCARBONS & PETROCHEMICALS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Canmet Hydrocracker Project	Montreal, Quebec	Petro-Canada	375	25	117	1983/85	67 (N)
<u>DESCRIPTION:</u> 5,000 bpd demonstration and process unit for upgrading refinery residuals.							
<u>STATUS:</u> Detailed engineering under way. Construction start-up early 1983. Completion scheduled early 1985.							
<u>SUPPLY REQUIREMENTS:</u> High temperature, high pressure vessels. Process and materials handling equipment.							
<u>MEPC:</u> Partec-Lavalin							
Committed <input checked="" type="checkbox"/> Planned _____ Possible _____							
Sable Island/South Sable/ Banquereau Exploration	Vicinity of Sable Island off Nova Scotia	Mobil Oil Canada Limited	n/a	474	310	1982/85	68 (N)
<u>DESCRIPTION:</u> Three exploration agreements requiring total of six wells. One agreement calls for drilling of four wells on Sable Island Block (464,218 hectares) over 18-month term, three wells to be spudded by March 31, 1983. Four-year agreement requires one well on South Sable Block (450,116 hectares). Three-year agreement requires one well in Banquereau Block (460,923 hectares).							
<u>STATUS:</u> Program under way.							
Committed <input checked="" type="checkbox"/> Planned _____ Possible _____							
Scotian Slope Exploration	On Scotian Slope off Nova Scotia	Shell Canada Resources Limited, operator, and other partners through farm-out arrangements.	n/a	254	263	1982/87	69 (N)
<u>DESCRIPTION:</u> Six exploration agreements covering 3.8 million hectares, two agreements with six-year terms and four with four-year terms. Drilling of six deep water wells.							
<u>STATUS:</u> Program under way.							
Committed <input checked="" type="checkbox"/> Planned _____ Possible _____							

HYDROCARBONS & PETROCHEMICALS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
East Sable and Northumberland Blocks Exploration	Offshore Nova Scotia/P.E.I.	Dome Petroleum Limited and partners	-	365 (peak employment)	127	1983/85	70 (N)
<u>DESCRIPTION:</u> One 2½-year agreement to drill two wells in 240,000 hectares in East Sable Block. One two-year agreement to drill one well on 589,000 hectares in Northumberland Block.							
<u>STATUS:</u> Drilling to start ASAP.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							

Offshore Labrador Exploration	Offshore Labrador	Labrador Group (Petro-Canada, operator, 21.02%, Gulf 22.79%, Canterra 17.09%, Ranchmen's Resources 1976 12%, Suncor 10%, Agip 10%, Amerada Minerals Corp. of Canada 7.1%)	-	?	450	1982/86	71 (122)
<u>DESCRIPTION:</u> Five-year program, reviewed on annual basis, of offshore oil and gas exploration along Labrador coast.							
<u>STATUS:</u> As of December, 1982, partners for '83 drilling program not firmed up.							
Committed <input type="checkbox"/> Planned <input checked="" type="checkbox"/> Possible <input type="checkbox"/>							

ELECTRICAL GENERATION AND DISTRIBUTION \$500 MILLION AND OVER

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Stikine-Iskut Hydro Development	Stikine-Iskut Rivers, N.W. B.C.	B.C. Hydro	18,700	80	4,200	1988/99	72 (174)
<u>DESCRIPTION:</u> Development of 2,765 MW of hydroelectric generation capacity at four sites on Stikine and Iskut Rivers with associated transmission/substation/communication and control facilities.							
<u>STATUS:</u> Part of company's 20-year system plan to supply load growth during mid to late 1990s.							
<u>SUPPLY REQUIREMENTS:</u> Turbine/generator sets, transformers, switchgears, gates, valves, cement, pozzolan, construction equipment, transmission steel towers and conductors, insulators.							
Committed _____ Planned _____ Possible <u> X </u>							
Peace Site "C" Hydro Development	Near Fort St. John, B.C.	B.C. Hydro	5,400	25	1,370	1984/91	73 (177)
<u>DESCRIPTION:</u> Hydro electric development on Peace River. Six 150 MW generating plant and associated transmission/substation/communication and control facilities.							
<u>STATUS:</u> Public hearings by B.C. Utilities Commission under way, were expected to be over by end of 1982.							
<u>SUPPLY REQUIREMENTS:</u> 60 m high earthfill (1120 m long) and concrete gravity (275 m long) dam. Six steel penstocks (9.35 m dia., 210 m long -- 8200t total). Six radial spillway gates (16.9 m x 15.9 m). Six intake gates (6.8 m x 10.1 m). 6 x 150 MW Francis turbine/umbrella generator sets.							
Committed _____ Planned <u> X </u> Possible _____							
Revelstoke Canyon Hydro	Near Revelstoke, B.C.	B.C. Hydro	8,000	30	1,280	1976/84	74 (176)
<u>DESCRIPTION:</u> Four 450 MW hydroelectric generation and associated transmission/substation/communication and control facilities on Columbia River.							
<u>STATUS:</u> On schedule for 1984 completion. Majority of supply contracts already awarded. Two more units of same size could be added later if required.							
Committed <u> X </u> Planned _____ Possible _____							

ELECTRICAL GENERATION AND DISTRIBUTION \$500 MILLION AND OVER

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Keenleyside/Murphy Creek Hydro Development	Trail, B.C.	B.C. Hydro	4,300	24	975	1984 or 88 /1994	75 (181)
DESCRIPTION: Development of generation (three 70 MW turbines at existing Keenleyside Dam and five 60 MW turbines at Murphy Creek site, both near Trail) and associated transmission and substation facilities.							
STATUS: Application for Energy Project Certificate to proceed with project is being prepared.							
SUPPLY REQUIREMENTS: Turbines, gates, governors, cranes and other mechanical equipment. Generators, transformers, switchgears and other electrical equipment and construction equipment. Major materials such as cement, reinforcing and structural steel, lumber.							
Committed _____ Planned <u> X </u> Possible _____							
Kemano Completion	Kemano, B.C.	Aluminum Co. of Canada, Ltd.	1,800	0	800	1987/91	76 (178)
DESCRIPTION: Hydro generating station. Electricity to be used for aluminum smelting. See project 179.							
STATUS: Project still in design stage as shared water resource plan is developed. Company expects to apply for energy construction certificate in 1983. Construction date cannot be established until public hearings are completed.							
Committed _____ Planned _____ Possible <u> X </u>							
Cheakye-Dunsmuir Transmission Project	Vancouver Island to B.C. Mainland	B.C. Hydro	740	5	610	1980/84	77 (180)
DESCRIPTION: Two 500 kV transmission circuits (part overhead and part underwater cables) interconnecting Vancouver Island and B.C. Mainland near Qualicum Bay and Squamish.							
STATUS: Under construction. First circuit planned to be in service by October, 1983. Two of four cables (first circuit) already laid, 50% of overhead transmission complete. All major contracts awarded.							
MEPC: Pirelli of Italy, STK (Standard Telefon Og Kabelfabrick) of Norway.							
Committed <u> X </u> Planned _____ Possible _____							

ELECTRICAL GENERATION AND DISTRIBUTION \$500 MILLION AND OVER

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Slave River Hydro	N.E. Alberta, N.W.T.	Unknown as yet. Could be partnership between Alberta government, TransAlta Utilities, Alberta Power Corp.	7,500	70	2,500	1985/95	78 (N)
<u>DESCRIPTION:</u> Three alternative sites on the Slave River in Northeast Alberta and the NWT under consideration, with generating capacities of between 1680 MW and 2000 MW, and 500kV transmission lines to Edmonton.							
<u>STATUS:</u> Feasibility study released mid-1982. Further work proceeding, under direction of Alberta government, towards first power in early 1990s.							
Committed _____ Planned _____ Possible <u>X</u>							
Dunvegan Hydro	On Peace River, 96 km N. of Grande Prairie, Alta.	Some combination of Alberta Power Ltd., TransAlta Utilities Corp., Edmonton Power, and the City of Medicine Hat	6,230	30	1,550	1985/95	79 (183)
<u>DESCRIPTION:</u> 1000 MW hydro generating station.							
<u>STATUS:</u> Proposals submitted to Alberta government but sponsor not yet approved. Geotechnical field tests under way.							
Committed _____ Planned _____ Possible <u>X</u>							
Sheerness Thermal Plant Units 1 & 2	Hanna, Alta.	Alberta Power Ltd. 50%, TransAlta Utilities Corp. 50%	2,250	124	660	1980/86	80 (184)
<u>DESCRIPTION:</u> Thermal power station. One 375 MW unit to be commissioned 1985, second 1986.							
<u>STATUS:</u> Construction on schedule; major equipment orders have been filled.							
Committed <u>X</u> Planned _____ Possible _____							

ELECTRICAL GENERATION AND DISTRIBUTION \$500 MILLION AND OVER

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Genesee Thermal Generating Station	Genesee, 65 km S.W. of Edmonton, Alta.	Edmonton Power	2,750 approx.	240 approx.	595	1980/87	81 (185)

DESCRIPTION: Two 400 MW coal fired generating units and transmission lines with first unit operational by 1986, second by 1987. Supplied by Genesee thermal coal mine (project 169).

STATUS: Completion date moved forward.

Committed Planned Possible

Limestone Generating Station	Nelson River, Man.	Manitoba Hydro	6,410	45	1,171	1983/93	82 (186)
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DESCRIPTION: 1200 MW hydro-electric facility.

STATUS: Preliminary design completed - construction will depend on energy demand. May be started earlier if Western Power Grid becomes a reality (see page 89).

Committed Planned Possible

Darlington Generating Station 'A'	Bowmanville, Ont.	Ontario Hydro	18,000	650	3,288	1977/90	83 (189)
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DESCRIPTION: 3500 MW nuclear generation station - 4 units.

STATUS: Under construction. First unit in service by May, 1988. All major requirements purchased. Second unit scheduled to come into service February, 1989. Third unit has been put back from November, 1989, to 1991; fourth from August, 1990, to 1992.

Committed Planned Possible

ELECTRICAL GENERATION AND DISTRIBUTION \$500 MILLION AND OVER

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Bruce "B" Generating Station	Port Elgin, Ont.	Ontario Hydro	18,060+	600	3,005	1976/88	84 (191)
<u>DESCRIPTION:</u> 3000 MW nuclear generating station.							
<u>STATUS:</u> Under construction. First 750 MW unit in service by 1984, 2nd by 1985.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Pickering "B" Generating Station	Pickering, Ont.	Ontario Hydro	15,000	450	2,390	1974/85	85 (192)
<u>DESCRIPTION:</u> 2000 (4 x 500 MW) MW nuclear generating station.							
<u>STATUS:</u> 80% constructed. Scheduled completion date February 1, 1985.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
La Grande, Phase I	James Bay, Quebec	Hydro-Québec	61,400		9,000	1974-85	86 (196)
<u>DESCRIPTION:</u> Complex of three power stations -- LG-2, LG-3 and LG-4 -- along La Grande River. See project 91. Capacity of complex 10,282 MW.							
<u>STATUS:</u> LG-2 completed 1981, LG-3 1982, LG-4 scheduled for completion by 1985.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
James Bay Transmission Networks	James Bay, Quebec	Hydro-Québec	18,000		3,719	1978-85	87 (197)
<u>DESCRIPTION:</u> Integration at La Grande, Phase I production by means of five 735-kV transmission lines.							
<u>STATUS:</u> Under construction. Completion scheduled for 1985.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							

ELECTRICAL GENERATION AND DISTRIBUTION \$500 MILLION AND OVER

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Grande Baleine Complex	200 km north of La Grande River, Quebec	Hydro-Québec	18,600	?	2,845	1988/99	88 (199)
<u>DESCRIPTION:</u> Complex of three power stations (Grande Baleine 1, 2 and 3) with reservoir upstream (Lake Bienville) and diversion of the small La Baleine River. Total capacity 2,896 MW.							
<u>STATUS:</u> Planning completed. Construction delayed six years.							
Committed _____ Planned <u> X </u> Possible _____							
Romaine Complex	900 km from Montreal on north shore of St. Lawrence River, Quebec	Hydro-Québec	14,000	?	2,025	1991/2000	89 (201)
<u>DESCRIPTION:</u> Complex of four power stations on Romaine River with capacity of 1,416 MW.							
<u>STATUS:</u> Projected start date deferred two years.							
Committed _____ Planned _____ Possible <u> X </u>							
La Citière Gas Turbine Project	South Shore between Quebec and Montreal, Quebec	Hydro-Québec	3,200	?	1,764	1985/90	90 (202)
<u>DESCRIPTION:</u> Installation of gas turbines with capacity of approximately 2,800 MW. Peak load facility.							
<u>STATUS:</u> Possible. Projected date for start of construction remains 1985.							
Committed _____ Planned _____ Possible <u> X </u>							

ELECTRICAL GENERATION AND DISTRIBUTION \$500 MILLION AND OVER

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
La Grande, Phase 2	James Bay, Quebec	Hydro-Québec	21,300	?	1,000?	1988/97	91 (198)
<u>DESCRIPTION:</u> Five power stations (LG-1, Brisay, Laforge 1 and 2, and Eastmain 1) along La Grande, Laforge, and Eastmain rivers, adding about 2,310 MW of installed capacity. See project 86.							
<u>STATUS:</u> Start of construction on LG-1, a base power project (approx. 1,000 MW), delayed until 1988 at least. Construction of other stations unlikely to begin before 1992.							
Committed _____ Planned <u>X</u> Possible _____							
Delaney Hydro Project	St. Raymond de Portneuf, Quebec	Hydro-Québec	7,100	?	961	1985/92	92 (203)
<u>DESCRIPTION:</u> Installation of 2,550 MW pumping station on Ste-Anne River. Peak load facility.							
<u>STATUS:</u> Projected start date deferred two years. Decision to proceed will be made by April, 1984.							
Committed _____ Planned <u>X</u> Possible _____							
Gentilly 2	Gentilly, near Trois Rivières, Quebec	Hydro-Québec	6,400	?	746	1973/83	93 (204)
<u>DESCRIPTION:</u> Construction of 685-MWQ Candu nuclear power station.							
<u>STATUS:</u> In final stages of licensing process. Could begin producing power 1983.							
Committed <u>X</u> Planned _____ Possible _____							

ELECTRICAL GENERATION AND DISTRIBUTION \$500 MILLION AND OVER

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Manic No. 5 Project Hydro Site Expansion	Manicouagan River, 725 km N.E. of Montreal, Quebec	Hydro-Québec	2,700	?	500	1984/89	94 (225)

DESCRIPTION: Construction of additional power plant (1,000 MW) on right bank of Daniel Johnson Dam.

STATUS: Was under construction but work has been halted and delayed three years.

Committed Planned Possible

Pointe Lepreau Generating Unit No. 2	48 km W. of Saint John, N.B.	The New Brunswick Electric Power Commission	11,000	?	2,500	1983/89	95 (205)
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DESCRIPTION: 600 MWe CANDU nuclear generating station.

STATUS: Under consideration.

Committed Planned Possible

Fundy Bay Tidal Power Project	Bay of Fundy, N.S.	Nova Scotia Tidal Power Corp.	?	?	6,000 ('81 dollars)	1985/95	96 (N)
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DESCRIPTION: Tidal power plant to produce approximately 5,000 MW installed capacity, with output of 14,000 CIGA watt hours per year.

STATUS: Pre-commitment study, including engineering design and environmental impact study, being planned.

Committed Planned Possible

ELECTRICAL GENERATION AND DISTRIBUTION \$500 MILLION AND OVER

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Lower Churchill Project, Phase 1	Gull Island, Labrador, Nfld.	Lower Churchill Development Corporation (Newfoundland & Labrador govts. 51%, federal government 49%)	9,800	140	3,100	1984/90	97 (208)
<u>DESCRIPTION:</u> 1700 MW hydroelectric facility at Gull Island on Lower Churchill River, Labrador, and + 400 kV DC transmission line to Newfoundland Island. See project 98.							
<u>STATUS:</u> Shareholder decision for financial support pending.							
<u>SUPPLY REQUIREMENTS:</u> Construction camp buildings and equipment, hydraulic turbines and electrical generators, transformers and switchgear, rebar and fabricated steel, cement and lumber, transmission line conductor, insulator and hardware, high voltage power cables, microwave and supervisory control equipment.							
Committed _____ Planned <u>X</u> Possible _____							

Lower Churchill Project, Phase 2	Muskrat Falls, Labrador, Nfld.	Lower Churchill Development Corporation (Newfoundland & Labrador govts. 51%, federal government 49%)	6,500	50	2,000	1990/95	98 (207)
<u>DESCRIPTION:</u> 600 MW hydroelectric facility at Muskrat Falls on Lower Churchill River and a second + 400 kV DC transmission line to Newfoundland Island. See project 97.							
<u>STATUS:</u> Shareholder decision for financial support pending.							
<u>SUPPLY REQUIREMENTS:</u> Construction camp buildings and equipment, hydraulic turbines and electrical generators, transformers and switchgear, rebar and fabricated steel, cement and lumber, transmission line conductor, insulator and hardware, microwave and supervisory control equipment.							
Committed _____ Planned _____ Possible <u>X</u>							

ELECTRICAL GENERATION AND DISTRIBUTION \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Pressurized Fluidized Bed Combustion Demonstration Project	Southern B.C.	B.C. Hydro	?	?	250	1986/91	99 (209)
<u>DESCRIPTION:</u> 200 MW(e) combined cycle demonstration plant based on PFBC technology to burn low-grade and variable quality fuel.							
<u>STATUS:</u> Feasibility studies in progress to see if technology applicable and beneficial to B.C. thermal plants. Not in company's present planning program.							
<u>SUPPLY REQUIREMENTS:</u> PFBC boiler, 70 MW gas turbine/generator set, 130 MW steam turbine/generator set, associated electrical equipment, coding system, coal preparation and feeding system, gas cleaning system, solid waste removal and disposal system.							
Committed _____ Planned _____ Possible <u> X </u>							
Kelly Lake-Cheekye Transmission Project	Clinton to Squamish, B.C.	B.C. Hydro	300	?	230	1986/90	100 (N)
<u>DESCRIPTION:</u> Double circuit 500 kV overhead transmission line between Kelly Lake (nr. Clinton) and Cheekye (nr. Squamish) substations to provide adequate supply to Lower B.C. Mainland.							
<u>STATUS:</u> Application for Energy Project Certificate being prepared and reviewed. Cheaper, single circuit alternative being investigated.							
<u>SUPPLY REQUIREMENTS:</u> Tower and foundation steel, spacer dampers and jumper spacers, Insulators, conductors.							
Committed _____ Planned <u> X </u> Possible _____							
Skeena-Rupert Transmission Line	Terrace to Prince Rupert, B.C.	B.C. Hydro	?	?	144	1984/88	101 (N)
<u>DESCRIPTION:</u> 500 kV transmission line to support industrial expansion at Prince Rupert.							
<u>STATUS:</u> Project reports ready fall, 1982.							
Committed _____ Planned _____ Possible <u> X </u>							

ELECTRICAL GENERATION AND DISTRIBUTION \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Keopihis Thermal Station	nr. Lake Wabamun, Alta.	TransAlta Utilities Corporation	1,950	103	470	1977/83-84	102 (211)
<u>DESCRIPTION:</u> Coal fired thermal power generating station, 2 x 375 MW units.							
<u>STATUS:</u> Unit #1 to be commissioned May, 1983, unit #2 May, 1984. On schedule.							
<u>MEPC:</u> Monenco							
Committed <input checked="" type="checkbox"/> Planned _____ Possible _____							
Nipawin Hydro Electric Station	Nipawin, Sask.	Saskatchewan Power Corporation	1,500	?	490	1981/86	103 (215)
<u>DESCRIPTION:</u> Hydroelectric station 252 MW - three 84 MW units.							
<u>STATUS:</u> Construction started August, 1981. Main civil contractor mobilized July, 1982.							
<u>SUPPLY REQUIREMENTS:</u> Transformers (to be tendered mid-1983).							
Committed <input checked="" type="checkbox"/> Planned _____ Possible _____							
Poplar River Thermal Power Station	Poplar River, Sask.	Saskatchewan Power Corporation	?	?	200	1979/83	104 (216/17/18)
<u>DESCRIPTION:</u> Addition of third, 300 MW, unit to lignite fired, mine mouth, thermal station.							
<u>STATUS:</u> 80 per cent complete.							
Committed <input checked="" type="checkbox"/> Planned _____ Possible _____							

ELECTRICAL GENERATION AND DISTRIBUTION \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
*Regina/Moose Jaw Water Quality Improvement Project	Southern Saskatchewan	Undetermined. Probably a mix of federal, provincial and municipal government investment.	<u>Canal:</u> 600 <u>Pipeline:</u> 150	48 15	148 110	1983/86 1983/84	105 (N)
<u>DESCRIPTION:</u> Two alternative plans to improve water quality in Regina and Moose Jaw. One entails construction of 89 km water pipeline from Lake Diefenbaker to Buffalo Pound Lake. The other involves building a 155 km irrigation channel or canal from Lake Diefenbaker to Rocky Lake.							
<u>STATUS:</u> Government studies under way. Decision on choice of option likely in 1983.							
<u>SUPPLY REQUIREMENTS:</u> Canal: reinforced concrete; metalwork; 8" pipeline; valves; valve gates; electrical wiring, panels and controls; transmission lines and associated equipment; rubber lining; granulated activated carbon system. Pipeline: 60" pipe; pumps; electrical panels and equipment and wiring.							
Committed _____ Planned _____ Possible <u> X </u>							

**Assiniboine - South Hespeler Project	Assiniboine - South Hespeler area, south central Man.	Project being studied jointly, under Canada-Manitoba Interim Subsidiary Agreement, by Prairie Farm Rehabilitation Administration (PFRA) of Dept. of ITC/REE and by Manitoba Dept. of Natural Resources	1,800	12	150	1990/93	106 (N)
<u>DESCRIPTION:</u> Irrigation of farmland through construction of dam on Assiniboine and diversion of water into canal running length of south-central Manitoba (80 to 133 km).							
<u>STATUS:</u> Preliminary engineering and economic impact studies completed. Project being analyzed in greater detail, consultations being conducted with municipalities and other affected parties.							
Committed _____ Planned _____ Possible <u> X </u>							

* water improvement project

** Irrigation project

ELECTRICAL GENERATION AND DISTRIBUTION \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Nelson River HVDC Bipole II Stages 2 & 3	Nelson River, Manitoba	Manitoba Hydro	400	N/A	144	1980/85	107 (N)
<u>DESCRIPTION:</u> Installation of 900 MW transmission line and of conversion and associated equipment.							
<u>STATUS:</u> Engineering and contract preparations under way. Initial construction contract awarded March, 1982. Manufacture and delivery of large electrical components under way. Committed <input checked="" type="checkbox"/> Planned _____ Possible _____							
Atikokan Generating Station	Marmion Lake, Ont.	Ontario Hydro	2,659	99	484	1978/84	108 (194)
<u>DESCRIPTION:</u> 206 MW coal fired generating station.							
<u>STATUS:</u> Under construction. Unit in service October, 1984.							
<u>SUPPLY REQUIREMENTS:</u> Major components include turbine generator, boiler, coal-handling facility. Committed <input checked="" type="checkbox"/> Planned _____ Possible _____							
Hydroelectric Power Generation St. Mary's River	Sault Ste. Marie, Ont.	Great Lakes Power Ltd.	600	0	115	1979/82	109 (224)
<u>DESCRIPTION:</u> 52,000 KW hydroelectric generating station comprising 3 horizontal bulb type turbine generators.							
<u>STATUS:</u> Expected to be complete and on-line in late 1982. Committed <input checked="" type="checkbox"/> Planned _____ Possible _____							

ELECTRICAL GENERATION AND DISTRIBUTION \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
NEPOOL Electric Power Line and Switchyard	Eastern Townships, Quebec	Hydro-Québec	?	?	300	1983/86	110 (226)
<u>DESCRIPTION:</u> 690 MW DC line and switchyard to provide electric power connection with New England Pool (NEPOOL).							
<u>STATUS:</u> Tenders in preparation.							
Committed <input checked="" type="checkbox"/> Planned _____ Possible _____							
Chateauguay Electric Power Switchyard	Chateauguay, Quebec	Hydro-Québec	?	?	167	1981/84	111 (226)
<u>DESCRIPTION:</u> New switchyard (1000 MW) to increase electric power export to Power Authority State of New York (PASNY) and to Ontario.							
<u>STATUS:</u> Under construction.							
Committed <input checked="" type="checkbox"/> Planned _____ Possible _____							
Madawaska Electric Power Lines and Switchyard	N.B. border, Quebec	Hydro-Québec	?	?	100	1983/85	112 (226)
<u>DESCRIPTION:</u> 345 MW DC line and switchyard and 150 MW AC line to provide electric power connection with New Brunswick.							
<u>STATUS:</u> Tenders in preparation.							
Committed <input checked="" type="checkbox"/> Planned _____ Possible _____							
Grand Lake #9 Thermal Project	Grand Lake, N.B.	The New Brunswick Electric Power Commission	925	40	226	?	113 (227)
<u>DESCRIPTION:</u> Engineering and construction of 200 MW coal-fired thermal generating station. Six-year project (estimated).							
<u>STATUS:</u> Project a possibility only with no estimated start date.							
Committed _____ Planned _____ Possible <input checked="" type="checkbox"/>							

ELECTRICAL GENERATION AND DISTRIBUTION \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Grand Falls Hydro Plant Redevelopment	Grand Falls, N.B.	The New Brunswick Electric Power Commission	1,200	15	138	?	114 (228)
<u>DESCRIPTION:</u> Expansion of existing Grand Falls hydro plant from 60 MW to 320 MW. Six-year project.							
<u>STATUS:</u> Project a possibility only with no estimated start date.							
Committed _____ Planned _____ Possible <u>X</u>							
Lingan Station Expansion	New Waterford, N.S.	Nova Scotia Power Corp.	1,800	40	200	1981/84	115 (229)
<u>DESCRIPTION:</u> Installation of two 150 MW coal-fired generating units.							
<u>STATUS:</u> Under construction. Unit #3 due February, 1984, unit #4 October, 1984.							
Committed <u>X</u> Planned _____ Possible _____							
Cat Arm Hydroelectric Project	Cat Arm River, northeast Nfld.	Newfoundland & Labrador Hydro	1,600	Remotely operated	450	1981/85	116 (230)
<u>DESCRIPTION:</u> 127 MW, 700 GWh annually. Project includes dams, canals, intake, tunnels, powerhouse and tailrace.							
<u>STATUS:</u> Major items of equipment on order and major construction contracts were scheduled for award by mid-August, 1982.							
Committed <u>X</u> Planned _____ Possible _____							

TRANSPORTATION \$500 MILLION AND OVER

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Vancouver ALRT System — New Westminster Line	Vancouver, B.C.	B.C. Transit, B.C. government	21,000	?	600	1982/88	117 (N)
<u>DESCRIPTION:</u> Advanced light rapid transit system from downtown to New Westminster. Initial line to consist of 13 sections. See project 118.							
<u>STATUS:</u> Engineering well under way with first section due for completion in 1983.							
<u>SUPPLY REQUIREMENTS:</u> Electrical distribution and traction equipment, signalling and communications equipment, wayside equipment and structures, tracks, concrete reinforced guideways and bridge work, ICTS vehicles.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Vancouver ALRT System — Surrey and Coquitlam Extension	Vancouver, B.C.	B.C. Transit, B.C. government	21,000	?	600	1984/95	118 (N)
<u>DESCRIPTION:</u> Extension of advanced light rapid transit system from New Westminster to Coquitlam and across Fraser River to Surrey. See project 117.							
<u>STATUS:</u> Planning under way.							
<u>SUPPLY REQUIREMENTS:</u> Electrical distribution and traction equipment, signalling and communications equipment, wayside equipment and structures, tracks, concrete reinforced guideways and bridge work, ICTS vehicles.							
Committed <input type="checkbox"/> Planned <input checked="" type="checkbox"/> Possible <input type="checkbox"/>							

TRANSPORTATION \$500 MILLION AND OVER

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
CN Plant Expansion Program	B.C., Alta. and other provinces	Canadian National Railways	9,700	?	6,804	1983/91	119 (307/311)

DESCRIPTION: Program to modernize and expand freight capacity of railway system, particularly in Western Canada. Includes double-tracking of main line between Edmonton and Vancouver, upgrading of B.C. North Line (incorporating installation of centralized traffic control, new diesel repair structures and facilities, new work equipment shop, new and extended sidings, expansion of terminals), replacement of track and roadway, modernization of Moncton brass foundry, expansion of Winnipeg wheel shop, upgrading of Thunder Bay facilities and locomotive signal control systems at Winnipeg. See project 120.

STATUS: To begin in 1983.

SUPPLY REQUIREMENTS: Signalling systems, electronic systems and components, diesel shops, car and ancillary equipment shops, yard improvements, miscellaneous buildings, trackwork, construction, machinery, cranes, steel fabrications, wheels, journal bearings, ballast, construction materials, bridge materials, materials handling equipment, track maintenance machinery, tunnelling equipment, ties, rail fastenings.

Committed X Planned Possible

CP Plant Expansion Program	B.C., Alta. and other provinces	Canadian Pacific Limited	7,060	-	4,953	1983/91	120 (312)
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DESCRIPTION: Program to modernize and expand freight capacity of railway system, particularly in Western Canada. Includes construction of Beaver-Connaught (Rogers Pass) tunnel, double-tracking projects between Calgary and Vancouver, expansion of repair and maintenance facilities across the country, improvements to yard and terminal facilities, new freight car repair shops, installation of new communications, traffic control and safety equipment, replacement of rails, ties, ballast and bridges. See project 119.

STATUS: To begin in 1983.

SUPPLY REQUIREMENTS: Signalling systems, electronic systems and components, diesel shops, car and ancillary equipment shops, yard improvements, miscellaneous buildings, trackwork, construction, machinery, cranes, steel fabrications, wheels, journal bearings, ballast, construction materials, bridge materials, materials handling equipment, track maintenance machinery, tunnelling equipment, ties, rail fastenings.

Committed X Planned Possible

TRANSPORTATION \$500 MILLION AND OVER

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Toronto Transit System - Waterfront & Radial	Toronto, Ont.	Toronto Transit Commission	?	?	516	1985/91	121 (N)
<u>DESCRIPTION:</u> Intermediate capacity transit system - waterfront and radial. See projects 134, 136, 137.							
<u>STATUS:</u> In feasibility study stage.							
<u>SUPPLY REQUIREMENTS:</u> Signals, light rail vehicles, supervisory control equipment, substation equipment, track, fare collection equipment, signs.							
Committed <input type="checkbox"/> Planned <input checked="" type="checkbox"/> Possible <input type="checkbox"/>							
Canadian Patrol Frigate Program	N.B., Que., and other locations	Department of National Defence (Canadian Patrol Frigate Industrial Benefits Office, DITC/DREE)	?	?	2,106	1983/92	122 (309)
<u>DESCRIPTION:</u> Construction of six patrol frigates and supporting infrastructure.							
<u>STATUS:</u> Contract definition studies awarded 1981 to Saint John Shipbuilding and Dry Dock Co. Ltd., Saint John, N.B., and to Scan Marine Inc., Longueuil, Quebec. Company proposals, submitted in October, 1982, are now being evaluated.							
<u>SUPPLY REQUIREMENTS:</u> Six patrol frigates, supporting shore facilities, logistics support.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
CF-18 Fighter Aircraft	all provinces	Department of National Defence (Aerospace Industrial Benefits Directorate, DITC/DREE)	?	?	5,200	1980/95	123 (308)
<u>DESCRIPTION:</u> Supply of 138 fighter aircraft by McDonnell Douglas with industrial benefits commitment of \$2.91 billion (\$2.4 billion firm, \$500,000 conditional).							
<u>STATUS:</u> Aircraft deliveries began in 1982. Industrial benefits program to continue through 1995.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							

TRANSPORTATION \$500 MILLION AND OVER

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
CP-140 Long-Range Patrol Aircraft	all provinces	Department of National Defence (Aerospace Industrial Benefits Directorate, DITC/DREE)	?	?	1,000	1976/93	124 (N)
<u>DESCRIPTION:</u> Supply of 18 long-range patrol aircraft by Lockheed with \$1 billion industrial benefits program.							
<u>STATUS:</u> All aircraft delivered. Industrial benefits program will continue through 1993.							
Committed <u> X </u> Planned <u> </u> Possible <u> </u>							

TRANSPORTATION \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Tumbler Ridge Branch Line	N.E. B.C.	British Columbia Railway	2,200	35	445	1980/83	125 (313)
<u>DESCRIPTION:</u> 123 km, including 13 km of tunnels, from Anzac (midway between Prince George and Chetwynd) to Tumbler Ridge coalfields. Rolling stock and upgrading of lines to be electrified. Component of N.E. B.C. coal development (see projects 127, 148, 154).							
<u>STATUS:</u> Tunnelling started April, 1982. Completion deadline July, 1983.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Ridley Island Grain Terminal	Prince Rupert, B.C.	Prince Rupert Grain Ltd. (Alberta Wheat Pool 34%, Saskatchewan Wheat Pool 30%, United Grain Growers 15%, Pioneer Grain Co. Ltd. 9%, Cargill Grain Co. Ltd. 9%, Manitoba Pool Elevators 3%)	1,600	80	275	1981/84	126 (314)
<u>DESCRIPTION:</u> Construction of grain terminal elevator to receive, clean, store, and ship 3,500,000 tonnes of grain per year.							
<u>STATUS:</u> Site clearing and levelling completed. Engineering virtually completed. Construction was to start in September, 1982.							
<u>SUPPLY REQUIREMENTS:</u> Machinery, concrete, steel, and other building materials. Housing and other facilities for workers.							
<u>MEPC:</u> Foundation Co. of Canada, Dillingham Corporation, Skanska.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Ridley Island Coal Terminal	Prince Rupert, B.C.	Ridley Terminals Inc. (Ports Canada 90%, Federal Commerce & Navigation Ltd. 10%)	500	100	220	1982/83	127 (316)
<u>DESCRIPTION:</u> Development of transshipment facility for coal.							
<u>STATUS:</u> Site preparation began March, 1981. Major contracts in place for supply and installation of two dumpers, two train positioners, two stacker/reclaimers, one marine structure, one dumper foundation. Remaining contracts were to be awarded 1982 for project completion December, 1983. See projects 125, 148, 154.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							

TRANSPORTATION \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Annacis Crossing of Fraser River	B.C.	British Columbia Ministry of Transportation and Highways	1,500	15	130	1980/86	128 (317)
<u>DESCRIPTION:</u> Road bridge across Fraser River.							
<u>STATUS:</u> Completion date put back two years.							
Committed <input type="checkbox"/> Planned <input checked="" type="checkbox"/> Possible <input type="checkbox"/>							
Roberts Bank Westshore Terminals Ltd. Intermediate Expansion	Vancouver, B.C.	B.C. Coal Ltd.	230	125	127	1981/83	129 (318)
<u>DESCRIPTION:</u> Expansion of existing coal capacity from 12.5 million tonnes/yr. throughput to approx. 22 million tonnes/yr. See project 130.							
<u>STATUS:</u> New 50 acre pad completed, major equipment purchased. Tandem dumper foundations under construction.							
<u>MEPC:</u> Swan Wooster							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Roberts Bank Bulk Terminal Consortium	Vancouver, B.C.	Equal participation by Esso Resources Canada Limited, Fording Coal Limited, Crows Nest Resources Limited, Home Oil Ltd.	450	82	110 (Phase I)	1983/86	130 (N)
<u>DESCRIPTION:</u> Coal terminal on third and fourth pads at Roberts Bank. See project 129.							
<u>STATUS:</u> Feasibility studies completed and proposal (one of several competing proposals by a number of developers) filed with the Canada Ports Corporation (formerly National Harbours Board). Selection of terminal developer pending.							
<u>SUPPLY REQUIREMENTS:</u> Stacker reclaimers, ship loaders and dumpers, and other stationary and mobile equipment and facilities needed for marine bulk coal handling terminal.							
Committed <input type="checkbox"/> Planned <input type="checkbox"/> Possible <input checked="" type="checkbox"/>							

TRANSPORTATION \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Alberta High Speed Rail Link	Between Edmonton and Calgary, Alta.	Alberta Dept. of Economic Development	?	?	450	1990/?	131 (321)
<u>DESCRIPTION:</u> New rail line paralleling existing highway to complement highway when it reaches saturation point.							
<u>STATUS:</u> Initial studies to be completed June, 1983. Start date will depend on resumption of economic growth.							
Committed <input type="checkbox"/> Planned <input type="checkbox"/> Possible <input checked="" type="checkbox"/>							
Calgary Transit System - Northeast Line	Calgary, Alta.	City of Calgary, Transportation Department	2,900	80	227	1982/85	132 (320)
<u>DESCRIPTION:</u> 10.3 km of light rail transit line (double track). See project 133.							
<u>STATUS:</u> Functional planning study completed and approved in 1981. Detail design started early 1982. Initial major contracts started May/June, 1981.							
<u>SUPPLY REQUIREMENTS:</u> Steel rail and associated components, ties, electrical power lines and substation equipment, light rail transit vehicles, fare collection equipment, electronic security equipment, construction materials for roadworks, utilities, bridges and buildings.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Calgary Transit System - Northwest Line	Calgary, Alta.	City of Calgary, Transportation Department	2,500	80	190	?	133 (319)
<u>DESCRIPTION:</u> 9.5 km of light rail transit line (double track). See project 132.							
<u>STATUS:</u> Functional study completed. Project has been placed on hold until further notice.							
<u>SUPPLY REQUIREMENTS:</u> Steel rail and associated components, ties, electrical power lines and substation equipment, light rail transit vehicles, fare collection equipment, electronic security equipment, construction materials for roadworks, utilities, bridges and buildings.							
Committed <input type="checkbox"/> Planned <input type="checkbox"/> Possible <input checked="" type="checkbox"/>							

TRANSPORTATION \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Toronto Transit System - Sheppard Line East	Toronto, Ont.	Toronto Transit Commission	?	?	420	1987/91	134 (N)
<u>DESCRIPTION:</u> Intermediate capacity transit system - Yonge Street to Scarborough Town Centre. See projects 121, 136, 137.							
<u>STATUS:</u> In feasibility study stage.							
<u>SUPPLY</u>							
<u>REQUIREMENTS:</u> Light rail vehicles, substation equipment, supervisory control equipment, track, fare collection equipment, signs.							
Committed _____ Planned <u>X</u> Possible _____							
Chrysler Plant Conversion - Windsor Assembly Plant	Windsor, Ont.	Chrysler Canada Ltd.	3,700	4,800	301	1982/83	135 (327)
<u>DESCRIPTION:</u> Conversion of the Windsor assembly plant for production of new T115 F.W.D. van/wagon for 1984 model year.							
<u>STATUS:</u> Under construction.							
<u>SUPPLY</u>							
<u>REQUIREMENTS:</u> Structural steel, plant layout and engineering, robots, body framing systems, aperture sub and final assemblies, engine compartments, floor plan assembly.							
<u>MEPC:</u> Robertson Yates							
Committed <u>X</u> Planned _____ Possible _____							
Toronto Transit System - Scarborough Line	Toronto, Ont.	Toronto Transit Commission	?	170	170	1980/84	136 (328)
<u>DESCRIPTION:</u> Intermediate capacity transit system - Kennedy Station to McCowan Station. See projects 121, 134, 137.							
<u>STATUS:</u> Construction in progress.							
<u>SUPPLY</u>							
<u>REQUIREMENTS:</u> Light rail vehicles, substation equipment, supervisory control equipment, track, fare collection equipment, signs.							
Committed <u>X</u> Planned _____ Possible _____							

TRANSPORTATION \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Toronto Subway Cars	Toronto, Ont.	Toronto Transit Commission	?	?	133	1983/88	137 (N)
<u>DESCRIPTION:</u> Purchase of 126 subway cars, 26 for improved service, 100 as replacements. See projects 121, 134, 136.							
<u>STATUS:</u> Negotiations in progress with tenderer for supply of some cars.							
<u>SUPPLY REQUIREMENTS:</u> Equipment, parts, etc., needed for subway cars.							
Committed _____ Planned <u>X</u> Possible _____							
Volkswagen Auto Parts Plant	Barrle, Ont.	Volkswagen Canada Inc.	?	500	102	1982/84	138 (N)
<u>DESCRIPTION:</u> Major production facility to produce various auto parts. Project part of conditions negotiated in agreement with federal government.							
<u>STATUS:</u> Production was scheduled to be in place by 1983. Because of poor performance of North American vehicle market, project completion may be delayed.							
Committed _____ Planned <u>X</u> Possible _____							
Montreal Underground Extension of Metro, Phase 1 of Line #5	Montreal, P.Q.	Montreal Urban Community/ Communauté Urbaine de Montréal	?	?	320	1978/86	139 (330)
<u>DESCRIPTION:</u> Construction of new line (#5) from Snowdon in the west across Côte-des-Neiges, the University of Montreal campus and Outremont, then directly east to Jean-Talon station and Saint-Michel Boulevard (length 9.7 km). See projects 140 - 143.							
<u>STATUS:</u> Construction in progress.							
Committed <u>X</u> Planned _____ Possible _____							

TRANSPORTATION \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Montreal Surface Extension of Metro, Phases 1 and 2 of Line #6	Montreal, P.Q.	Montreal Urban Community/ Communauté Urbaine de Montréal	?	?	Phase 1: 217 Phase 2: 58 Total: <u>275</u>	1984/87 1987/90	140 (N)
<u>DESCRIPTION:</u> To contribute to an integrated transportation system for the Montreal region by constructing new line (#6) from rue Saint-Louis/Decarie Boulevard in ville de Saint Laurent east to Repentigny. See projects 139, 141 - 143.							
<u>STATUS:</u> Construction of phase 1 (Sauvé to Pointe-aux-Trembles -- 18.5 km) planned to start in 1984; of phase 2 (Collège to Sauvé -- 4.9 km) in 1987.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Montreal Surface Extension of Metro, Line #3	Montreal, P.Q.	Montreal Urban Community/ Communauté Urbaine de Montréal	?	?	267	1988/93	141 (N)
<u>DESCRIPTION:</u> To contribute to an integrated transportation system for the Montreal region by constructing a new line (#3) from Central Station across Montreal Island under Mount Royal, then northwest to ville de Saint-Laurent, to Roxboro and finally to Deux-Montagnes (total length 23 km). See projects 139, 140, 142, 143.							
<u>STATUS:</u> Construction planned to start in 1988.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Montreal Underground Extension of Metro, Phase 2 of Line #5	Montreal, P.Q.	Montreal Urban Community/ Communauté Urbaine de Montréal	?	?	145	1985/89	142 (N)
<u>DESCRIPTION:</u> Continuation of line #5 from Jean-Talon to Cité de Saint-Leonard and ville d'Anjou (5.4 km). See projects 139 - 141, 143.							
<u>STATUS:</u> Construction planned to start in 1985.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							

TRANSPORTATION \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Montreal Underground Extension of Metro Line #2	Montreal, P.Q.	Montreal Urban Community/ Communauté Urbaine de Montréal	?	?	133	1978/85	143 (N)
<u>DESCRIPTION:</u> North-west extension of line #2 (4.5 km) under Victoria Street and Decarie Boulevard from Plamondon Street to Chemin de la Côte-Vertu at ville de Saint-Laurent. See projects 139 - 142.							
<u>STATUS:</u> Construction in progress.							
Committed <input checked="" type="checkbox"/> Planned _____ Possible _____							
Polar Icebreaker	Que. or Maritimes	Transport Canada - Coast Guard	4,200	116	340	1984/88	144 (332)
<u>DESCRIPTION:</u> Construction of Class B polar icebreaker: 100,000 shaft horsepower, length overall 194 metres, draft 13 metres, displacement 37,000 tonnes.							
<u>STATUS:</u> Design completed. Awaiting government approval to proceed with construction phase.							
Committed _____ Planned <input checked="" type="checkbox"/> Possible _____							
Michelin Tire Plant	Waterville, N.S	Michelin Tires (Canada) Ltd.	?	?	272	1980/?	145 (334)
<u>DESCRIPTION:</u> Construction of new tire plant to produce heavy weight tires (phase 1) and car and truck tires (phase 2).							
<u>STATUS:</u> Plant construction basically complete. Heavy weight tires in production since April 1 but full production capacity of Phase 1 not yet reached. Start of Phase 2 undetermined.							
Committed <input checked="" type="checkbox"/> Planned _____ Possible _____							

TRANSPORTATION \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
CN Passenger Ferry	Cape Breton, N.S. to Port-aux-Basques, Nfld.	CN Marine Inc.	1,500	?	121	1983/84	146 (N)
<u>DESCRIPTION:</u> New 1,200-passenger ferry (Gulfspan class). Overall length: 175 metres. Loaded displacement: 15,300 tonnes.							
<u>STATUS:</u> Contract awarded January, 1983, to Davie Shipbuilding Ltd., Lauzon, Quebec.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Radar Modernization Project (RAMP)	across Canada	Transport Canada (DSS and ITC/DREE also involved)	?	?	400+	1985/90	147 (N)
<u>DESCRIPTION:</u> Procurement and installation of new primary and secondary air traffic control radar system and new radar display system and associated equipment at various locations across Canada.							
<u>STATUS:</u> Preliminary proposals from private sector have been received and evaluated, and recommendations made to Treasury Board. Awaiting Treasury Board approval to proceed.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							

INDUSTRIAL MINERALS \$500 MILLION AND OVER

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Quintette Coal Development	Tumbler Ridge, B.C.	Quintette Coal Ltd.: Denison Mines Limited (majority shareholder and manager) 50.00%, Mitsui Mining Overseas Co. Ltd. 12.50%, Charbonnages de France International S.A. 12.01%, Tokyo Boeki Ltd. 10.49%, Sumitomo Corporation 5.00%, Nippon Steel Corporation 3.84%, Nippon Kokan Kabushiki Kaisha 1.62%, Kawasaki Steel Corporation 1.50%, Sumitomo Metal Industries Ltd. 1.49%, Kobe Steel, Ltd. 0.88%, Nisshin Steel Co., Ltd. 0.29%, Nakayama Steel Works, Ltd. 0.20%, Mitsubishi Chemical Industries Ltd. 0.11%, Godo Steel, Ltd. 0.07%	1,300	1,300	838	1981/83	148 (257)
<u>DESCRIPTION:</u> Coal property that will produce 5,000,000 tons of metallurgical and 1,300,000 tons of thermal coal annually, starting in 1984. Part of N.E. B.C. coal development. See projects 125, 127, 154.							
<u>STATUS:</u> Construction under way.							
<u>SUPPLY REQUIREMENTS:</u> Large-scale open-pit mining equipment including trucks, shovels, rotary drills, etc. Coal washing plant and materials handling equipment. Ancillary equipment and services.							
<u>MEPC:</u> Kilborn Engineering Limited							
Committed <input checked="" type="checkbox"/> Planned _____ Possible _____							
Monkman Coal Project	Monkman Pass, B.C.	Petro-Canada 50%, Canadian Superior Oil 33.3% McIntyre Mines 16.7%	?	950	620	1983/86	149 (259)
<u>DESCRIPTION:</u> Open pit mining of metallurgical coal, for export to Western Pacific nations, especially Japan, via Ridley Island coal terminal, Prince Rupert.							
<u>STATUS:</u> In advanced stage of project development as regards technical and economic feasibility, marketing, and provincial government approvals.							
Committed _____ Planned <input checked="" type="checkbox"/> Possible _____							

INDUSTRIAL MINERALS \$500 MILLION AND OVER

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Bredenbury Potash Mine	Bredenbury, nr. Yorkton, Sask.	Potash Corporation of Saskatchewan Mining Limited	925	450+	700+	1984/89	150 (261)
<u>DESCRIPTION:</u> New, 3.2 million tonnes/year, potash mine and refinery.							
<u>STATUS:</u> Ore body drilled for location and size. Pilot holes for shafts drilled and shafts located. Environmental Impact Statement submitted fall, 1982.							
<u>SUPPLY REQUIREMENTS:</u> Continuous mining machinery, conveyors, underground shop equipment, ventilation, electrics, hoisting facilities. Refinery crushing/grinding, flotation/heavy media, screening, cycloning, thickeners, hydro-separators, crystallization, conveyors, storage, loadout facilities.							
Committed _____ Planned _____ Possible <u> X </u>							
Scotia Coal Synfuels	Cape Breton Island (Point Tupper favoured), N.S.	Scotia Coal Synfuels Project (Petro-Canada 19.5%, Gulf 19.5%, Cape Breton Development Corp. 19.5%, Noval Technology 19.5%, Nova Scotia Resources 19.5%, A. Gillespie & Assoc. 2.5%)	10-12,000	2,300	1,500+	1984/90	151 (N)
<u>DESCRIPTION:</u> New plant to convert coal to transportation fuels (20,000 to 30,000 BPD).							
<u>STATUS:</u> \$2½ million committed to feasibility studies (Kilborn/Badger, HR1, Chevron), using Nova Scotia coal.							
<u>SUPPLY REQUIREMENTS:</u> High pressure, high temperature vessels. Process equipment. MEPC services. Local services. New coal mine or face (2 million t/yr.).							
Committed _____ Planned _____ Possible <u> X </u>							
Merchant Coke Plant	Sydney, N.S.	Undetermined. Probably mix of government and private funding.	?	400	500	1984/88	152 (N)
<u>DESCRIPTION:</u> New coke facility: 2 million t/yr.							
<u>STATUS:</u> Marketing and detailed site selection studies being conducted by federal government (DITC/REE).							
Committed _____ Planned _____ Possible <u> X </u>							

INDUSTRIAL MINERALS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Line Creek Coal Mine	25 km N. of Sparwood, B.C.	Crows Nest Resources Limited	?	600	330	1979/83	153 (265)
<u>DESCRIPTION:</u> 2.7 million tonnes capacity metallurgical/thermal open pit coal mine.							
<u>STATUS:</u> Essentially complete.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Bullmoose Coking Coal Project	Tumbler Ridge, approx. 100 km S.E. of Chetwynd, B.C.	Teck Corp. 51%, Lornex Mining Corp. Ltd. (68.1% owned by Rio Algom Ltd.) 39%, Nissho-Iwai 10%	500	590	290	1981/83	154 (268)
<u>DESCRIPTION:</u> Open pit mine development: 2.3 Mt/y (1.7 Mt/y metallurgical grade). Part of N.E. B.C. coal development. See projects 125, 127, 148.							
<u>STATUS:</u> Mine pre-production development completed. Scheduled start-up December, 1983.							
<u>SUPPLY REQUIREMENTS:</u> Open pit mining equipment: 120-ton trucks, shovels. Electric power drills. Coal preparation plant.							
<u>MEPC:</u> Engineering: Phillips Baird Kayser. General Contracting: Commonwealth Construction.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Greenhills Surface Coal Mining Project	35 km N. of existing operations at Sparwood, B.C.	B.C. Coal Ltd. 80%, Pohang Iron and Steel Co. Ltd., South Korea, 20%	700	830	282	1981/83	155 (266)
<u>DESCRIPTION:</u> Surface coal mining: 1.8 million tonnes/year metallurgical coal, 0.75 million tonnes/year thermal coal. For Korean, Taiwanese, Danish, Japanese and, eventually, Hong Kong markets.							
<u>STATUS:</u> Under construction. Completion scheduled for mid-1983.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							

INDUSTRIAL MINERALS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Line Creek Coal Expansion	25 km N. of Sparwood, B.C.	Crows Nest Resources Limited	?	400	250	1984/86	156 (264)
<u>DESCRIPTION:</u> 1.5 - 2 million tonnes capacity metallurgical/thermal open pit coal mine.							
<u>STATUS:</u> In early planning stages.							
Committed _____ Planned <u>X</u> Possible _____							
Sage Creek Coal Project	76 km S.E. of Fernie, B.C.	Sage Creek Coal Co. (Rio Algom 60%, Pan Ocean Oil 40%)	?	?	215	1984/86	157 (N)
<u>DESCRIPTION:</u> Two open pits: 2.2 Mt/yr thermal coal.							
<u>STATUS:</u> Stage 2 report submitted. Sales contracts were being sought September, 1982.							
Committed _____ Planned _____ Possible <u>X</u>							
Telkwa Bituminous Coal Mine	nr. Smithers, B.C.	Crows Nest Resources Limited	?	?	200	1985/87	158 (N)
<u>DESCRIPTION:</u> Bituminous coal.							
<u>STATUS:</u> Very early conceptual/exploration phase. Decision to enter the B.C. regulatory process not expected before end of 1982.							
Committed _____ Planned _____ Possible <u>X</u>							

INDUSTRIAL MINERALS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Eagle Mountain Coal Mine Expansion	Eagle Mountain, B.C.	Fording Coal Ltd.	83	150	115	1982/83	159 (N)
<u>DESCRIPTION:</u> Open pit. To increase production from 2.7 to 4.6 million tonnes/year.							
<u>STATUS:</u> Studies in progress for stage 2 submission.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Quinsam Coal Mine	S.W. of Campbell River, Vancouver Island, B.C.	Quinsam Coal Ltd. (Weldwood of Canada Limited 50%, Brinco Limited 50%)	500	235	100	1983/85	160 (N)
<u>DESCRIPTION:</u> Open pit thermal coal mine (1 M t/yr thermal coal). Coal trucked to barge facility at Middle Bay.							
<u>STATUS:</u> Awaiting B.C. government approvals of revised application.							
<u>SUPPLY REQUIREMENTS:</u> Washing plant, vehicles, mining equipment.							
Committed <input type="checkbox"/> Planned <input checked="" type="checkbox"/> Possible <input type="checkbox"/>							

INDUSTRIAL MINERALS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Coalspur Thermal Coal Development	Hinton, Alta.	Dentherm Resources Limited (Denison Mines Ltd. 65%, Charbonnages de France International S.A. 15%, Taiwan Power Co. 10%, Denimil Energie und Mineral Ag. & Co. 10%)	1,400	733	400	1983/86	161 (270)
<u>DESCRIPTION:</u> Mining and processing of coal reserves to produce thermal coal for sale.							
<u>STATUS:</u> Feasibility study complete. Awaiting partners' decision and government approval.							
<u>SUPPLY REQUIREMENTS:</u> Large scale open pit mining equipment including trucks, shovels, rotary drills. Coal washing plant and materials handling equipment. Ancillary equipment and services.							
Committed <input type="checkbox"/> Planned <input checked="" type="checkbox"/> Possible <input type="checkbox"/>							
McLeod River Coal Project	nr. Hinton, Alta.	McLeod River Coal Ltd. 70%, Electric Power Development Co. Ltd. of Japan 30%	1,200	900	325	1984/86	162 (N)
<u>DESCRIPTION:</u> Thermal coal mine: 4 million tonnes per year. Production for international markets.							
<u>STATUS:</u> Awaiting Alberta government approval. Negotiations continuing with Japanese partners. Start-up date dependent on market development.							
<u>SUPPLY REQUIREMENTS:</u> Mining equipment and on-site infrastructure.							
Committed <input type="checkbox"/> Planned <input checked="" type="checkbox"/> Possible <input type="checkbox"/>							
Obed Marsh Thermal Coal Project	Obed, nr. Hinton, Alta.	Union Oil of Canada 50%, Norcen Energy Resources Limited 40%, Rescon 10%	500	400	300	1983/85	163 (269)
<u>DESCRIPTION:</u> New coal mine aimed at Asian and European markets.							
<u>STATUS:</u> Final stages of negotiating sales contracts.							
Committed <input type="checkbox"/> Planned <input checked="" type="checkbox"/> Possible <input type="checkbox"/>							

INDUSTRIAL MINERALS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Mercoal Project	nr. Hinton, Alta.	Mercoal Minerals Ltd. (subsidiary of Manalta Coal Ltd.) 80%, Idemitsu Kosan Co. Ltd. 20%	900	600	235	1984/86	164 (N)
<u>DESCRIPTION:</u> Thermal coal mine: 2 million tonnes per year. Production for international markets.							
<u>STATUS:</u> Alberta government approval applied for early 1982. Decision awaited. Start-up date depends on market development.							
<u>SUPPLY REQUIREMENTS:</u> Include housing or transportation infrastructure for mine employees.							
Committed <input type="checkbox"/> Planned <input checked="" type="checkbox"/> Possible <input type="checkbox"/>							
Bryan Mountain Bituminous Coal Mine	nr. Robb, Alta.	Crows Nest Resources Limited	?	400	200+	1988-91	165 (N)
<u>DESCRIPTION:</u> Bituminous coal mine approx. 1.5 Mt/yr.							
<u>STATUS:</u> Preliminary disclosure to Alberta government was anticipated by end of 1982.							
Committed <input type="checkbox"/> Planned <input type="checkbox"/> Possible <input checked="" type="checkbox"/>							
Sheerness Thermal Coal Mine	Hanna, Alta.	Luscar Limited (Forestburg Collieries Ltd.) and Manalta Coal Ltd.	400	300	200	?	166 (271)
<u>DESCRIPTION:</u> Open pit thermal coal mine development.							
<u>STATUS:</u> Engineering and feasibility studies completed.							
<u>SUPPLY REQUIREMENTS:</u> Pre-engineered building, heavy duty maintenance shop equipment, open pit mining machinery.							
Committed <input type="checkbox"/> Planned <input checked="" type="checkbox"/> Possible <input type="checkbox"/>							

INDUSTRIAL MINERALS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Gregg River Open Pit Metallurgical Coal Mine	Gregg River, nr. Hinton, Alta.	Gregg River Resources Ltd. (owners' agent and operator), subsidiary of Manalta Coal Ltd. Project owners: Gregg River Coal Ltd. (60%), Japanese consortium (40%)	800	650	190	1981/83	167 (275)
<u>DESCRIPTION:</u> At full capacity, will produce up to 2.14 million tonnes of clean coal per year for export to Japan. Development phase involves construction of coal preparation plant, dryer, two clean coal storage silos, loadout, railspur, shop and warehouse.							
<u>STATUS:</u> As of January, 1983, project was 90% complete. Pre-stripping of first pits to be mined started September, 1982. Start-up of coal preparation plant scheduled for April, 1983 with first shipments of coal occurring shortly thereafter.							
<u>SUPPLY REQUIREMENTS:</u> Major equipment for mine start-up already purchased. Some materials and equipment for construction of mine office, shop and warehouse facilities, and for coal preparation plant and associated facilities may still remain to be purchased.							
<u>MEPC:</u> Loram-Techman joint venture (engineering and construction of offsite facilities). Dominion Bridge Co. Ltd. and McNally Pittsburg Mfg. Group (engineering and construction of coal preparation plant and associated facilities).							
Committed <input checked="" type="checkbox"/> Planned _____ Possible _____							
Hinton East Coal Mine	Hinton, Alta.	Esso Resources Canada Limited (Associated Porcupine Mines Ltd. 30%)	750	350	175	1984/87	168 (N)
<u>DESCRIPTION:</u> Open pit coal mine (2-3 M tonnes per year) and related facilities.							
<u>STATUS:</u> Preliminary exploration and feasibility studies under way.							
Committed _____ Planned <input checked="" type="checkbox"/> Possible _____							

INDUSTRIAL MINERALS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Genesee Thermal Coal Mine	Genesee, 65 km S.W. of Edmonton, Alta.	Fording Coal Ltd., Edmonton Power, Idemitsu Kosan Co. Ltd.	?	43	150	1983/86	169 (273/277)
<u>DESCRIPTION:</u> 3.5 Mt/yr. Supplies Genesee thermal generating station (project 81).							
<u>STATUS:</u> On schedule.							
<u>SUPPLY REQUIREMENTS:</u> One 44 m ³ dragline, scrapers, and 109 ton capacity bottom dump coal haulers.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Buffalo Hill Coal Project	Buffalo Hill, 75 km S.E. of Calgary, Alta.	Seagull Resources Ltd. (Taiyo Oil Company Ltd. is Pacific Rim distributor)	?	?	120	?/87	170 (N)
<u>DESCRIPTION:</u> Thermal coal property. To produce 1.25 million tonnes annually in production stage, with optimum production rate eventually approaching 2 million tonnes of saleable coal a year.							
<u>STATUS:</u> Alberta government has approved company's preliminary disclosure of its intentions. Development delayed because of softening of market. Company will concentrate on marketing and engineering studies in 1983. Construction start date depends on state of market.							
Committed <input type="checkbox"/> Planned <input checked="" type="checkbox"/> Possible <input type="checkbox"/>							
Judy Creek Coal Mine	Judy Creek, Alta.	Esso Resources Canada Ltd.	N/A	N/A	100?	late 80s/ early 90s	171 (274)
<u>DESCRIPTION:</u> Open pit coal mine and related facilities to feed mine mouth thermal electric generating plant.							
<u>STATUS:</u> Preliminary exploration and feasibility studies completed.							
Committed <input type="checkbox"/> Planned <input type="checkbox"/> Possible <input checked="" type="checkbox"/>							

INDUSTRIAL MINERALS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Shaughnessy Thermal Coal Mine	Shaughnessy, nr. Lethbridge, Alta.	Fording Coal Ltd.	500	350	100	1983/85	172 (278)

DESCRIPTION: 1 to 3 Mt/yr.

STATUS: At project evaluation stage.

Committed _____ Planned _____ Possible X

Potash Mine Rehabilitation and Expansion Program - Lanigan Phase 2	Saskatoon, Sask.	Potash Corp. of Saskatchewan Mining Limited	1000	250	450	1979/84	173 (260)
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DESCRIPTION: Addition to refinery, new mining machines, conveying system to increase capacity from 1 million tonnes per year to 3 million tonnes per year.

STATUS: Project physically 30% complete. 50% of funds committed. Major contracts remain to be tendered for electrical and mechanical installation. Mechanical completion is scheduled for June, 1984.

SUPPLY

REQUIREMENTS: Surface and underground conveyors, flotation equipment, pumps, electric motors, electrical equipment, piping, instrumentation.

MEPC: Kilborn (Saskatchewan) Ltd.

Committed X Planned _____ Possible _____

INDUSTRIAL MINERALS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
New Brunswick Potash Project	Salt Springs, N.B.	Denison - Potacan Potash Company (Denison Mines Limited, managers, 60%, Potash Company of Canada, sales agents, 40%)	800	300	200	1983/86	174 (279)
<u>DESCRIPTION:</u> Potash mine and upgrading facilities: 1.3 million tonnes per year.							
<u>STATUS:</u> Final feasibility study under way.							
<u>SUPPLY REQUIREMENTS:</u> Mining and milling equipment and infrastructure.							
<u>MEPC:</u> Kibborn Limited							
Committed _____ Planned _____ Possible <u> X </u>							
Sussex Potash Mine and Refinery Development	Sussex, N.B.	Potash Company of America	700	300	140	1980/83	175 (280)
<u>DESCRIPTION:</u> Potash mine and refinery with capacity of one million t/yr.							
<u>STATUS:</u> On schedule for completion in 1983.							
Committed <u> X </u> Planned _____ Possible _____							

INDUSTRIAL MINERALS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Donkin Morlen Colliery	Donkin/ Port Morlen, N.S.	Cape Breton Development Corporation	3,750	1,300	100+	1980/91	176 (281)
<u>DESCRIPTION:</u> 3.8 x 10 ⁶ tonnes per year submarine coal mine.							
<u>STATUS:</u> Phase 2: exploratory tunnel drivage under way, Project Definition Study completed. Phase 3: full mine development, exclusive of infrastructure, requires further exploration.							
<u>SUPPLY REQUIREMENTS:</u> Longwall mining equipment; mine men and material transportation equipment; conveyors, crushing and sizing equipment; stacker and reclaimer; compressors, pumps and fans; electrical equipment; engineering and construction services.							
Committed <input type="checkbox"/> Planned <input checked="" type="checkbox"/> Possible <input type="checkbox"/>							
Glace Bay Colliery	Glace Bay, N.S.	Cape Breton Development Corporation	4,000	1,400	100+	1983/93	177 (282)
<u>DESCRIPTION:</u> 3.2 x 10 ⁶ tonnes per year multi-seam submarine coal mine. Access by shafts and tunnels.							
<u>STATUS:</u> Feasibility study completed. Approved by Board of Directors. Requires federal government approval.							
<u>SUPPLY REQUIREMENTS:</u> Full face tunnel boring machine; longwall mining equipment; mine men and material transportation equipment; conveyors, crushing and sizing equipment; compressors, pumps and fans; electrical equipment; engineering and construction services.							
Committed <input type="checkbox"/> Planned <input checked="" type="checkbox"/> Possible <input type="checkbox"/>							
Lingan Phalen Mine	Glace Bay, N.S.	Cape Breton Development Corporation	750	774	100+	1983/85	178 (283)
<u>DESCRIPTION:</u> 1.5 x 10 ⁶ tonnes submarine coal mine. Access by declines.							
<u>STATUS:</u> Feasibility study completed. Approved by Board of Directors. Awaiting federal government approval.							
<u>SUPPLY REQUIREMENTS:</u> Partial face tunnel boring and longwall mining equipment; coal preparation facilities; mine men and material transportation equipment; conveyors, crushing and sizing equipment; compressors, pumps and fans; electrical equipment; construction services.							
Committed <input type="checkbox"/> Planned <input checked="" type="checkbox"/> Possible <input type="checkbox"/>							

PRIMARY METALS \$500 MILLION AND OVER

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Alcan Aluminum Smelters, B.C.: Kemano Completion	N.W. B.C.	Aluminum Company of Canada, Ltd.	4,500	1,300	2,000	1987/91	179 (297)
<u>DESCRIPTION:</u> Aluminum smelters. 540,000 t/yr ultimate capacity will depend on electricity from Kemano completion (project 76).							
<u>STATUS:</u> Preferred site near Vanderhoof selected. Construction date indefinite. Proposal being studied, delayed, to determine effect on salmon fishery and because of uncertainty regarding power generating capacity.							
Committed _____ Planned _____ Possible <u>X</u>							
ComInco Mine Modernization and Expansion Program	Trail and Kimberley, B.C.	ComInco Ltd.	?	?	700	1977/87	180 (233)
<u>DESCRIPTION:</u> Modernization and expansion of metallurgical operations at Trail, B.C., and modernization of Sullivan Mine at Kimberley, B.C.							
<u>STATUS:</u> Approximately 50% complete. New electrolytic and melting facility partially on line. Water treatment and other environmental facilities complete. Overall program scheduled for completion in 1987.							
Committed <u>X</u> Planned _____ Possible _____							
Pechiney Aluminum Smelter	Becancour, Quebec	Intsel Canada (subsidiary of Pechiney Ugine Kuhlmann of France)	1,600	850	888	1983/86	181 (N)
<u>DESCRIPTION:</u> Construction of aluminum smelter with initial production of 230,000 metric tons a year.							
<u>STATUS:</u> Feasibility study being conducted. Pechiney was to decide project's viability by January 24, 1983.							
<u>SUPPLY REQUIREMENTS:</u> Ship unloading and materials handling equipment, potline, carbon electrode plant, electrical substation and distribution facilities.							
Committed _____ Planned _____ Possible <u>X</u>							

PRIMARY METALS \$500 MILLION AND OVER

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Reynolds Aluminum Smelter Expansion	Bale Comeau, Quebec	Canadian Reynolds Metals Co. Ltd.	1,500	452	500	1982/85	182 (N)

DESCRIPTION: Expansion of primary smelter to increase capacity to 300,000 metric tons a year from present 175,000 tons through addition of one potline with 125,000 tons of capacity.

STATUS: Under construction. Excavation stage.

SUPPLY

REQUIREMENTS: Potline equipment, new building construction and materials.

Committed X Planned Possible

PRIMARY METALS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Dofasco New Hot Strip Mill	Hamilton, Ont.	Dofasco Incorporated	1,450	379	400	1980/83	183 (300)
<u>DESCRIPTION:</u> New reversing rougher mill and 5-stand tandem finishing mill for direct rolling ingots to coils.							
<u>STATUS:</u> Major contracts committed, construction 85% complete.							
<u>SUPPLY REQUIREMENTS:</u> Heavy industrial, mechanical and electrical equipment.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Algoma Seamless Tube Mill	Sault Ste. Marie, Ont.	The Algoma Steel Corporation, Limited	700	500	300	1980/84	184 (301)
<u>DESCRIPTION:</u> 100,000 ton/year capacity.							
<u>STATUS:</u> Work on hold and investment being deferred to later date.							
<u>SUPPLY REQUIREMENTS:</u> Production and materials handling equipment, construction services.							
<u>MEPC:</u> Fenco							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Stelco Hot Strip Mill Expansion Program	Nanticoke, Ont.	Stelco Inc.	1,206	150	270	1979/83	185 (302)
<u>DESCRIPTION:</u> 2050 mm (80") hot strip rolling mill with 1 reheat furnace, 1 roughing stand with edger, 1 coil box, 1 down coiler, strip finishing.							
<u>STATUS:</u> 2050 mm mill to start operation 2nd quarter, 1983.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							

PRIMARY METALS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Algoma Medium Structural Mill	Sault Ste. Marie, Ont.	The Algoma Steel Corporation, Limited	?	?	265	1986/87	186 (N)
<u>DESCRIPTION:</u> Capacity 1,000,000 tons/yr.							
<u>STATUS:</u> In preliminary design stage.							
SUPPLY							
<u>REQUIREMENTS:</u> Production and materials handling equipment, construction services.							
Committed <input type="checkbox"/> Planned <input type="checkbox"/> Possible <input checked="" type="checkbox"/>							
Algoma No. 3 Steelmaking Shop	Sault Ste. Marie, Ont.	The Algoma Steel Corporation, Limited	?	?	225	1986/88	187 (N)
<u>DESCRIPTION:</u> 1,750,000 tons/yr.							
<u>STATUS:</u> In preliminary design stage.							
SUPPLY							
<u>REQUIREMENTS:</u> Production equipment, steel fabrication, control systems, field construction services.							
Committed <input type="checkbox"/> Planned <input type="checkbox"/> Possible <input checked="" type="checkbox"/>							
Algoma New Coke Oven Battery	Sault Ste. Marie, Ont.	The Algoma Steel Corporation, Limited	350	0	145	1982/86	188 (304)
<u>DESCRIPTION:</u> 75 five m ovens.							
<u>STATUS:</u> Project started but was on hold pending return of normal cash flows.							
SUPPLY							
<u>REQUIREMENTS:</u> Steel fabrication, control systems, construction services.							
<u>MEPC:</u> DRAVO							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							

PRIMARY METALS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Algoma New Bloom - Round Caster	Sault Ste. Marie, Ont.	The Algoma Steel Corporation, Limited	?	?	135	1985/87	189 (N)
<u>DESCRIPTION:</u> 750,000 tons annual capacity.							
<u>STATUS:</u> In preliminary design stage.							
<u>SUPPLY REQUIREMENTS:</u> Production equipment, steel fabrication, control systems, field construction services.							
Committed _____ Planned _____ Possible <u>X</u>							
Blind River Uranium Refinery	Blind River, Ont.	Eldorado Nuclear Limited	700	200	130	1981/83	190 (250)
<u>DESCRIPTION:</u> 18,000 tonne uranium refinery.							
<u>STATUS:</u> Construction as of July, 1982, was 40% complete. Overall completion expected second quarter of 1983.							
<u>SUPPLY REQUIREMENTS:</u> Foundations, structural steel, building cladding, steel and stainless steel piping, electrical, instrumentation, insulation, asphalt paving and landscaping.							
<u>MEPC:</u> Lummus Co. Canada Limited							
Committed <u>X</u> Planned _____ Possible _____							
Inco Smelter Improvement Program	Copper Cliff, Ont.	Inco Ltd.	?	0	100+	1984/90	191 (N)
<u>DESCRIPTION:</u> Major modifications, replacements and/or additions to the Copper Cliff smelter and related facilities aimed at reduced emission levels and improved smelting efficiencies.							
<u>STATUS:</u> Related research and engineering continuing through 1982.							
<u>SUPPLY REQUIREMENTS:</u> Heavy equipment for materials handling, electric furnaces, ducting of gasses, acid recovery, major building modifications or replacements.							
Committed _____ Planned <u>X</u> Possible _____							

PRIMARY METALS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Eldorado Uranium Hexafluoride Conversion Plant	Port Hope, Ont.	Eldorado Nuclear Limited	450	60	100	1982/83	192 (N)
<u>DESCRIPTION:</u> 9,000 tonnes expansion of uranium hexafluoride capacity.							
<u>STATUS:</u> Construction 6% complete as of July, 1982.							
<u>SUPPLY</u>							
<u>REQUIREMENTS:</u> Foundations, structural steel, building cladding. Alloy steel piping, electrical, instrumentation and insulation.							
<u>MEPC:</u> Lummus Co. Canada Ltd.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Rio Algom Steel Plant Modernization	Welland, Ont.	Rio Algom Limited (Atlas Steels Division)	?	?	100	1981/91	193 (305)
<u>DESCRIPTION:</u> Modernization of steel plant.							
<u>STATUS:</u> Phase 1 completed 1981/82 at a cost of \$10 million. Subsequent phases of program being re-evaluated.							
Committed <input type="checkbox"/> Planned <input checked="" type="checkbox"/> Possible <input checked="" type="checkbox"/>							
Timmins Copper Smelter and Refinery: Phase I Expansion	Timmins, Ont.	Kidd Creek Mines Ltd.	?	?	100	?	194 (306/251)
<u>DESCRIPTION:</u> Expansion of capacity from 65,000 STPY to 100,000 STPY copper cathode.							
<u>STATUS:</u> Under study.							
Committed <input type="checkbox"/> Planned <input type="checkbox"/> Possible <input checked="" type="checkbox"/>							

PRIMARY METALS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
New Brunswick Zinc Project	Belledune, N.B.	Brunswick Mining and Smelting Corp. Ltd. 66 2/3%, Heath Steel Mines Ltd. 33 1/3% (both subsidiaries of Noranda Mines Ltd.)	1,000 workers at peak	400	360	?	195 (N)

DESCRIPTION: Hydro metallurgical plant (electrolytic zinc).

STATUS: Feasibility study stage. Start date of construction uncertain. Maximum construction period 36 months.

MEPC: Hatch Associates (for some engineering work).

Committed _____ Planned Possible _____

Sysco Business Plan - Rail Plant Modernization	Sydney, N.S.	Sydney Steel Corporation (N.S. govt. Crown corp.) is sponsor. Canadian govt. 80%, N.S. govt. 20%.	?	?	Phase 1 - 170 Phase 2 - 180 Total 350	1982/90	196 (N)
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DESCRIPTION: Phase 1 (1982-86): secure basic operations, improve cost efficiency and productivity. Phase 2 (1986-90): modernize steelmaking. Phase 3 (1990-?): not yet defined.

STATUS: Phase 1 started 1982. Engineering and procurement under way. Work begun on repair and demolition program. Coke oven market/construction study completed.

SUPPLY

REQUIREMENTS: Equipment and structures for new or rebuilt coke ovens, rebuilt blast furnaces, BOF/electric furnace/other modern replacement for open hearth furnaces.

Committed Planned _____ Possible _____

METAL MINING \$500 MILLION AND OVER

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Lake Zone Copper Deposit Development	Highland Valley, B.C.	Valley Copper Mines Ltd.	?	?	775	?	197 (N)
<u>DESCRIPTION:</u> Development of copper deposit.							
<u>STATUS:</u> In planning stage.							
Committed _____ Planned _____ Possible <u>X</u>							
Key Lake Uranium Mine and Mill	Key Lake, Sask.	Key Lake Mining Corporation (Saskatchewan Mining Development Corp. 50%, Uranerz Exploration & Mining Ltd. 33 1/3%, Eldor Resources Ltd. 16 2/3%)	1,600	500	500	1981/83	198 (242)
<u>DESCRIPTION:</u> Open pit uranium mine and mill.							
<u>STATUS:</u> Mill and facilities under construction. Overburden being removed to expose orebodies. Mill to be operational late 1983.							
<u>MEPC:</u> Wright/Commonwealth							
Committed <u>X</u> Planned _____ Possible _____							

METAL MINING \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Mactung Mine	MacMillan Pass, Yukon, N.W.T.	Amax Northwest Mining Company Limited	450	200	200	1984/86	199 (254)
<u>DESCRIPTION:</u> 1000 t/d tungsten mine and concentrator.							
<u>STATUS:</u> Conceptual engineering phase.							
Committed _____ Planned <u>X</u> Possible _____							
Berg Mine Copper-Molybdenum Property	Houston, B.C.	Placer Development Limited 51% Kennco Exploration (Canada) Ltd. 49%	1,500	600	350	1986/89	200 (235)
<u>DESCRIPTION:</u> 25,000 t/d open pit copper-molybdenum property.							
<u>STATUS:</u> Preliminary feasibility study stage.							
<u>SUPPLY REQUIREMENTS:</u> Mine and concentrator equipment, townsite.							
Committed _____ Planned _____ Possible <u>X</u>							
Adanac Mine - Molybdenum Property	Atlin, B.C.	Placer Development Limited 70% Adanac Mining and Exploration Ltd. 30%	1,300	290	280	1986/89	201 (236)
<u>DESCRIPTION:</u> 14,000 t/d concentrator and open pit mine.							
<u>STATUS:</u> Preliminary evaluation stage.							
<u>SUPPLY REQUIREMENTS:</u> Mine and concentrator equipment, three power generating stations (two hydro, one diesel electric), expansion of Atlin townsite.							
Committed _____ Planned _____ Possible <u>X</u>							

METAL MINING \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Queen Charlotte Gold Mine	Graham Island, Queen Charlotte Islands, B.C.	Cinola Operating Company Ltd. (Consolidated Cinola Mines Ltd., operator, 50%, Energy Resources Canada Ltd. 50%)	600	262	218	1983/85	202 (N)
<u>DESCRIPTION:</u> Open pit gold mine development.							
<u>STATUS:</u> In pilot plant stage. Application for development permit being considered, initial screening of project being conducted by B.C. government.							
<u>SUPPLY</u> <u>REQUIREMENTS:</u> Open pit mining equipment: 85-ton trucks, front end loaders, blast hole drills.							
Committed _____ Planned _____ Possible <u>X</u>							
Kutcho Creek Copper/Zinc Mine	Kutcho Creek, B.C.	Esso Resources Canada Limited, Sumac Mines Ltd. will share approximate equal control of resource. Current lease-holders have not yet established formal development agreement re property.	?	450	165	1987/90	203 (240)
<u>DESCRIPTION:</u> Open pit and underground mine and mill complex.							
<u>STATUS:</u> Preliminary exploration and stage 1 feasibility studies completed.							
Committed _____ Planned _____ Possible <u>X</u>							
Westmin H-W Mine Project	Near Campbell River, B.C.	Westmin Resources Limited	?	492	150	1983/85	204 (N)
<u>DESCRIPTION:</u> Development of new underground mine (copper, lead, zinc, gold, silver) and expansion of current plant capacity from 875 to 2700 tonnes a day.							
<u>STATUS:</u> Reports required by B.C. Metal Mines Guidelines completed. Detailed planning under way. Approval by Board of Directors depends on results of up-dated feasibility study and approval in principle by B.C. government.							
Committed _____ Planned <u>X</u> Possible _____							

METAL MINING \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Equity Silver Mine	Houston, B.C.	Equity Silver Mines Limited (Placer Development Limited)	75	0	147	1983/84	205 (241)
<u>DESCRIPTION:</u> Additional grinding and flotation capacity required to treat future ore.							
<u>STATUS:</u> Preliminary design.							
Committed <input type="checkbox"/> Planned <input checked="" type="checkbox"/> Possible <input type="checkbox"/>							
Midwest Uranium Mine	Midwest Lake, Sask.	Eso Resources 50%, Numac Oil & Gas Ltd. 25%, Bow Valley Industries 12.5%, Mink Mining and Midwest Mining 12.5%	1,900	200	440	1989/93	206 (243)
<u>DESCRIPTION:</u> Uranium mine and mill complex.							
<u>STATUS:</u> Preliminary exploration and feasibility studies completed. Environmental impact statement submitted to Saskatchewan and federal governments early 1982. Project currently on hold pending marketing arrangements.							
Committed <input type="checkbox"/> Planned <input type="checkbox"/> Possible <input checked="" type="checkbox"/>							
Amok Uranium Mine and Mill, Phase 2	Cluff Lake, Sask.	Amok Ltd./Cluff Mining (Amok 80%, Saskatchewan Mining Development Corp. 20%)	275	400	137	1983/85	207 (244)
<u>DESCRIPTION:</u> Phase 2 open pit uranium mine and mill.							
<u>STATUS:</u> Feasibility studies under way. Environmental and basic engineering studies started late 1982.							
<u>SUPPLY REQUIREMENTS:</u> Construction materials and labour, milling and mining equipment.							
Committed <input type="checkbox"/> Planned <input type="checkbox"/> Possible <input checked="" type="checkbox"/>							

METAL MINING \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Thompson Open Pit Nickel Mine	Thompson, Manitoba	Inco Limited	725	75	120	1982/89	208 (N)
<u>DESCRIPTION:</u> Two-phase development of open pit nickel mine. Overburden removal by dredge.							
<u>STATUS:</u> Dredge and ancillary equipment assembled on site. Start up deferred from summer, 1982, to 1983 dredging season.							
<u>SUPPLY REQUIREMENTS:</u> Service buildings, mobile equipment, conveyors, dredging services.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Denison Uranium Mine and Mill Expansion	Elliot Lake, Ont.	Denison Mines Ltd.	1,500	2,300	300	1978/84	209 (248)
<u>DESCRIPTION:</u> Expansion of mine from 7,000 to 15,000 tons per day.							
<u>STATUS:</u> Surface construction completed. Some underground facilities to be completed at main mine, e.g. ore underground conveyorway. Development work in progress at Stanrock Mine includes footwall haulageway and slashing of existing shaft for use as exhaust airway. Major fan installation remains to be completed.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Detour Lake Gold Mine	145 km N. of Cochrane, Ont.	Campbell Red Lake Mines Ltd., operator, 25%, Dome Mines 25%, Amoco Canada Petroleum Ltd. 50%	1,140	260-500	240	1980/87	210 (249)
<u>DESCRIPTION:</u> 2000 t/d gold mine from open pit starting 1983. Underground development to start in 1984. Mill to be expanded to 4000 t/d by 1987.							
<u>STATUS:</u> Under construction.							
<u>MEPC:</u> Kilborn Limited							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							

METAL MINING \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Rio Algom Uranium Mine Rehabilitation	Elliot Lake, Ont.	Rio Algom Ltd.	660	1,078	100 (federal govt. estimate)	1979/83	211 (246)
<u>DESCRIPTION:</u> Rehabilitation of Stanleigh uranium mine.							
<u>STATUS:</u> Construction and development work continuing as planned. Production scheduled to start mid-1983.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Kitts/Michelin Uranium Development	Makkovik Area, Labrador, Nfld.	Brinco Ltd.	?	?	160	?	212 (252)
<u>DESCRIPTION:</u> Development of uranium mine.							
<u>STATUS:</u> Project delayed until price of uranium improves.							
Committed <input type="checkbox"/> Planned <input type="checkbox"/> Possible <input checked="" type="checkbox"/>							

FOREST PRODUCTS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Alberta Sawmills and Paper Mill	Grande Cache, Knight, Hurdy, Alta.	British Columbia Forest Products Limited	900	945	299	1981/85	213 (289)
<u>DESCRIPTION:</u> Construction of sawmills at Grande Cache and Knight and pulp mill at Hurdy.							
<u>STATUS:</u> Grande Cache sawmill completed April, 1982. Completion of paper mill and other sawmill deferred to 1985. Committed _____ Planned <u>X</u> Possible _____							
ManFor Plant Expansion, Modernization	The Pas, Manitoba	Manitoba Forestry Resources Ltd. (ManFor), Manitoba government Crown corporation. Joint study by DITC/DREE and Man. Dept. of Crown Investments	?	?	100+	?	214 (N)
<u>DESCRIPTION:</u> Expansion and modernization of plant.							
<u>STATUS:</u> Joint federal/provincial analysis, under Canada-Manitoba Industrial Development Subsidiary Agreement, of various options. Feasibility study and cost estimates of options not fully defined due for completion April, 1983. Committed _____ Planned _____ Possible <u>X</u>							
Dryden Pulp Mill and Fine Paper Mill Modernization and Expansion	Dryden, Ont.	Great Lakes Forest Products Limited	1,480	0	350	1980/83	215 (290)
<u>DESCRIPTION:</u> Modernization, expansion of pulp mill and fine paper mill.							
<u>STATUS:</u> In final stages of construction. All commitments made. Committed <u>X</u> Planned _____ Possible _____							

FOREST PRODUCTS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
E.B. Eddy Bleached Kraft Pulp Mill Modernization and Expansion	Espanola, Ont.	E.B. Eddy Forest Products Ltd.	1,800	0	250	1980/83	216 (292)
<u>DESCRIPTION:</u> Upgrading and expansion of facilities.							
<u>STATUS:</u> 60 per cent complete. All major components contracted for.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Abitibi Price Pulp and Paper Mill Modernization	Iroquois Falls, Ont.	Abitibi Price Inc.	550	?	130	1981/83	217 (293)
<u>DESCRIPTION:</u> New newsprint machine to replace three old machines.							
<u>STATUS:</u> Construction delayed by 1982 strike, now due for completion March/April, 1983.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							
Quebec Mills Modernization and Expansion	Port Alfred, Laurentide, Belgo, Wyagamack Mills, Quebec	Consolidated-Bathurst Inc.	?	?	250	1979/87	218 (294)
<u>DESCRIPTION:</u> Environmental protection, energy conservation and modernization and expansion programs for each mill.							
<u>STATUS:</u> Ongoing till 1987. Some projects already completed.							
<u>SUPPLY REQUIREMENTS:</u> Tanks, presses, pulpers, gear drivers, conveyors, compressors, motors, pumps, winders, Dynaformer, driers.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							

FOREST PRODUCTS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
Matane Newsprint Mill	Matane, Quebec	Rexfor/F.F. Soucy Inc.	1,150	245	235	1983/85	219 (N)
<u>DESCRIPTION:</u> Construction of new newsprint mill with annual capacity of 160,000 metric tonnes using thermo-mechanical pulping process.							
<u>STATUS:</u> In final stage of analysis.							
<u>SUPPLY REQUIREMENTS:</u> Paper machine, refiners, piping, electrical components, anti-pollution equipment, boilers, barkers, conveyors.							
Committed <input type="checkbox"/> Planned <input type="checkbox"/> Possible <input checked="" type="checkbox"/>							
I.T.T. Mill Re-opening	Port Cartier, Quebec	Tembec Inc. or Papler Cascades	? 300-500 (plant) 1,100-1,200 (forestry)		125+	? ?	220 (N)
<u>DESCRIPTION:</u> Two competing proposals to re-open closed I.T.T. mill and produce grade sulphite pulp and possibly higher grades.							
<u>STATUS:</u> Feasibility and other studies under way.							
Committed <input type="checkbox"/> Planned <input type="checkbox"/> Possible <input checked="" type="checkbox"/>							
Atholville Pulp Mill Modernization	Atholville, N.B.	Fraser Inc.	500	255	181	1981/83	221 (N)
<u>DESCRIPTION:</u> Modernization.							
<u>STATUS:</u> On schedule for completion late 1983.							
Committed <input checked="" type="checkbox"/> Planned <input type="checkbox"/> Possible <input type="checkbox"/>							

FOREST PRODUCTS \$100 - \$500 MILLION

PROJECT NAME	LOCATION	SPONSOR	CONSTRUCTION PERSON-YEARS	OPERATING STAFF	INVESTMENT (\$ 1982 MILLION)	EST. CONSTRUCTION START/COMPLETION	PROJECT NUMBER
CTMP Pulp Mill and CM Machine	Bathurst, N.B.	Consolidated-Bathurst Inc.	?	505	175	1981/87	222 (N)
<u>DESCRIPTION:</u> Installation of chemical-thermo-mechanical pulp mill (capacity 400 tonnes a day) and corrugating medium paper machine (350 tonnes a day).							
<u>STATUS:</u> Phase 1, CTMP mill: 1983 completion. Phase 2, CM machine: 1986 start-up.							
<u>SUPPLY REQUIREMENTS:</u> Fibrolators and motors, conveyors, filtration discs, refiners, pumps, driers, etc. CM machine.							
Committed <u> X </u> Planned <u> </u> Possible <u> </u>							

SOME PROJECTS THAT HAVE BEEN SUSPENDED INDEFINITELY

PROJECT NAME	LOCATION	SPONSOR	PROJECT NO.,
			'81 INVENTORY
1. Taglu Gas Plant	Mackenzie Delta, N.W.T.	Esso Resources Canada Ltd.	128
2. Two Open Pit Mine Developments	Faro, Yukon	Cyprus Anvil Mining Corp.	253
3. Methanol Plant	B.C.	Westcoast Transmission Co. Ltd.	135
4. Hat Creek Thermal Project	Near Ashcroft, B.C.	B.C. Hydro	175
5. Elk River Coking Coal Project	North of Upper Elk Valley, B.C.	Elco Mining Limited	258
6. Sukunka Coal Mine Development	Chetwynd, Sukunka, B.C.	B.P. Exploration Canada Ltd.	263
7. Metallurgical Coal Mines Expansion	Elkford, B.C.	Fording Coal Ltd.	267
8. Kraft Pulp Mill Expansion	Squamish, B.C.	Western Forest Products Ltd.	285
9. Pulp and Paper Harmac Mill Expansion	Nanaimo, B.C.	MacMillan Bloedel Ltd.	288
10. Coquihalla Pass Highway	B.C.	B.C. Dept. of Transportation and Highways	315
11. Sandalta Oil Sands	Fort MacKay, Alberta	Gulf Canada Resources Inc.	111
12. Alberta Gas Liquids (Olefins) Plant	Alberta	Gulf Canada Ltd. and consortium	115
13. Petalta Benzene and Styrene Monomer Plant	Bruderheim, Alberta	Alberta Energy Co. Ltd.	142/144
14. Thermal Power Plant	Red Deer, Alberta	Fording Coal Ltd.	182
15. Western Grid HVDC Transmission and Conversion	Manitoba, Saskatchewan, Alberta	Provincial hydro companies	187
16. Keepphills Thermal Station — Units 3 and 4	Near Lake Wabamum, Alberta	TransAlta Utilities Corp.	212
17. Edmonton LRT extensions	Edmonton, Alberta	City of Edmonton, Transit Department	323 - 326
18. Northern Grid: 800 km of HV Transmission Lines	Northern Saskatchewan	Saskatchewan Power Corp.	219
19. Uranium Refinery and Conversion Plant	Warman, Saskatchewan	Eldorado Nuclear Limited	245
20. Aluminum Smelter	Manitoba	Aluminum Co. of Canada Ltd.	298
21. Spanish River Hydro Project	Sault Ste. Marie, Ontario	Inco Limited	223
22. Offshore Exploration	Newfoundland	Esso Resources Canada Ltd.	168
23. Refinery Reactivation	Come-by-Chance, Newfoundland	Petro-Canada	169
24. Shipyard (LNG or Oil Carriers)	East or West Coast	Dome Petroleum	335

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DUNVEGAN HYDRO
No sponsor as yet.
See Alberta Power Ltd.

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