

MAJOR INVESTMENT PROJECTS**CONFIDENTIAL**

| COMPANY                 | PROJECT  | TIMING  | COST IN<br>\$ 1980 | AS SPENT<br>COST |
|-------------------------|--|---------|--------------------|------------------|
| <u>Petrochemicals</u>   |  |         |                    |                  |
| 1. Alberta Gas Ethylene | #2 Ethylene  | 1981-84 | \$ 470             |                  |
| 2. Alberta Gas Ethylene | #3 Ethylene  | 1982-85 | \$ 470             |                  |
| 3. Esso Chemicals       | #4 Ethylene  | 1983-86 | \$ 470             |                  |
| 4. Shell - Nova         | Low Den. Polyethylene  | 1981-84 | --                 | \$ 250           |
| 5. Dow Chemical         | LDPE   | 1981-84 | \$ 75              |                  |
| 6. AECL/DuPont          | Polyethylene   | 1983-86 | \$ 200             |                  |
| 7. CIL - Trimac         | High Den. Polyethylene   | 1981-84 | \$ 120             |                  |
| 8. Shell - Nova         | HDPE   | 1982-85 | \$ 200             |                  |
| 9. Shell - Nova         | Styrene  | 1982-84 | --                 | \$ 240           |
| 10. AECL/Esso           | Styrene  | 1983-86 | --                 | \$ 300           |
| 11. Petalta (AEC/Esso)  | Benzene  | 1981-84 | --                 | \$ 350           |
| 12. Union Carbide       | Ethylene Glycol  | 1981-84 | --                 | \$ 300           |
| 13. Celanese            | Methanol   | 1981-82 | --                 | \$ 255           |
| 14. Alta. Gas Chem.     | Methanol   | 1981-82 | --                 | \$ 130           |
| 15. Dome/AEC/ANG        | Methanol   | 1982-84 | \$ 275             |                  |
| 16. Biewag              | Methanol   | 1982-84 | \$ 500             |                  |
| 17. Esso Chemicals      | Ammonia - Urea   | 1981-83 | \$ 300             |                  |
| 18. Sherritt-Gordon     | Ammonia - Urea   | 1981-83 | \$ 265             |                  |
| 19.                     | Ammonium Phosphate<br>(Expansion)                                      | 1983-85 | \$ 150             |                  |
| 20. Esso Chemicals      | Phosphoric Acid<br>(Expansion)   | 1981-82 | \$ 45              |                  |
| 21. Shell - Nova        | Poly Alpha Olefin  | 1982-85 | \$ 400             |                  |
| 22. Mitsui              | Chloralkalai Ethyl<br>Dichloride                                       | 1983-86 | \$ 200             |                  |
| 23. Dow Chemical        | Ethylene Oxide/Glycol<br>(Expansion)                                   | 1982-85 | --                 | \$ 220           |
| 24. Dow Chemical        | Ethylene Dichloride,<br>Vinyl Chloride,<br>Chloralkalai<br>(Expansion) | 1982-84 | --                 | \$ 135           |

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| <u>Petrochemicals</u>                                |   |         |                    |                  |
| 25. Celanese   | Acetic Acid<br>Vinyl Acetate                | 1984-86 | --                 | \$ 425           |
| 26. Polysar  | Ethylene - propylene<br>rubber              | 1983-85 | --                 | \$ 150           |
| <u>Refineries</u>                                    |   |         |                    |                  |
| 1. Imperial Oil, Edmonton                            | Expansion                                   | 1981-84 | --                 | \$ 182           |
| 2. Gulf, Edmonton                                    | Expansion                                   | 1981-83 | --                 | \$ 153           |
| 3. Husky, Lloydminster                               | Expansion                                   | 1981-82 | --                 | \$ 83            |
| 4. Turbo, Balzac                                     | Refinery                                    | 1981-83 | --                 | \$ 200           |
| 5. Shell - Husky                                     | Refinery and Benzene<br>Plant               | 1981-84 | --                 | \$ 750           |
| <u>Gas Processing</u>                                |   |         |                    |                  |
| 1. Gulf  | Sour Gas Processing<br>Plant                | 1982-83 | --                 | \$ 300           |
| 2. Esso - Chevron                                    | Gas Fractionation<br>Plant                  | 1982-84 | --                 | \$ 750           |
| <u>Pipelines</u>                                     |   |         |                    |                  |
| 1. Foothills Pipelines                               | Alaska Hwy. Gas Pipeline<br>Alberta portion | 1980-85 | \$1,450.           |                  |
| <u>Power Generation (including coal development)</u> |   |         |                    |                  |
| 1. Keephills I                                       | 400 mw unit                                 | 1980-83 | \$ 410             |                  |
| 2. Keephills II                                      | 400 mw unit                                 | 1980-84 |                    |                  |
| 3. Sheerness I                                       | 375 mw unit                                 | 1982-85 | \$ 595             |                  |
| 4. Sheerness II                                      | 375 mw unit                                 | 1982-86 |                    |                  |
| 5. Genesee I   | 400 mw unit                                 | 1984-87 | \$ 660             |                  |
| 6. Genesee II  | 400 mw unit                                 | 1984-88 |                    |                  |

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| <u>Coal</u>                     |                           |         |                    |                  |
| 1. Manalta, Gregg River         | Metallurgical Coal Mine   | 1981-83 | --                 | \$ 180           |
| 2. Fording Coal,<br>Shaughnessy | Thermal Coal Mine         | 1983-85 | --                 | \$ 70            |
| 3. Union Oil, Obed Marsh        | Thermal Coal Mine         | 1982-84 | --                 | \$ 400           |
| 4. Dentherm, Coalspur           | Thermal Coal Mine         | 1983-85 | --                 | \$ 200           |
| 5. Manalta, Macleod River       | Thermal Coal Mine         | 1984-86 | --                 | \$ 200           |
| 6. PetroCanada, Kipp            | Thermal Coal Mine         | 1984-86 | --                 | \$ 75            |
| <u>Forest Products</u>          |                           |         |                    |                  |
| 1. B.C. Forest Products         | Pulp and Newsprint Mill   | 1983-85 | --                 | \$ 165           |
| 2. B.C. Forest Products         | Sawmill                   | 1980-81 | --                 | \$ 40            |
| 3. B.C. Forest Products         | Sawmill                   | 1981-82 | --                 | \$ 50            |
| 4. AEC                          | Medium Density Board Mill | 1983-84 | --                 | \$ 40            |
| 5. Brazeau                      | Sawmill (s)               | 1983-85 | --                 | \$ 75            |
| 6. Brazeau                      | Panel Board Mill          | 1983-85 | --                 | \$ 30            |
| 7. Brazeau                      | Pulp and Paper Mill       | 1985-88 | --                 | \$ 350           |
| <u>Cement</u>                   |                           |         |                    |                  |
| 1. Inland                       | Cement Plant              | 1980-82 | \$ 40              |                  |
| 2. Inland                       | Lime Quarry               | 1981-83 | --                 | \$ 26            |