



CONSULTING GROUP

## FRANCE

## ETHYLENE (Thousand Tons)

| CAPACITIES              |              |   | 1990        | 1991        | 1992        | 1993        | 1994        | 1995        | 1996        | 1997        | 2000        |
|-------------------------|--------------|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| APVCF                   | -FEYZIN      | 1 | 235 *       | 250         | 250         | 250         | 250         | 250         | 250         | 250         | 250         |
| COPENOR                 | -DUNKERQUE   | 1 | 290 *       | 320         | 320         | 320         | 320         | 320         | 320         | 320         | 320         |
| ELF ATOCHEM             | -CARLING     | 1 | 220         | 220         | 220         | 220         | 220         | 225 *       | -           | -           | -           |
| ELF ATOCHEM             | -CARLING     | 1 | 220         | 220         | 220         | 220         | 220         | 225 *       | 460         | 460         | 460         |
| ELF ATOCHEM             | -GONFREVILLE | 1 | 405 *       | 470         | 470         | 470         | 470         | 470         | 470         | 470         | 470         |
| ELF ATOCHEM             | -LACQ        | 1 | 75          | 75          | 75          | 75          | 75          | 75          | 75          | 75          | 75          |
| EXXON CHEMICALS         | -PORT JEROME | 1 | 310         | 320 *       | 400         | 400         | 400         | 400         | 400         | 400         | 400         |
| MONTELL POLYOLEF        | -BERRE       | 1 | 425         | 425         | 425         | 425         | 425         | 425         | 425         | 425         | 465         |
| NAPHTACHIMIE            | -LAVERA      | 1 | 520         | 620 *       | 680         | 680         | 680         | 680         | 700 *       | 730         | 730         |
| <b>Total Capacity</b>   |              |   | <b>2700</b> | <b>2920</b> | <b>3060</b> | <b>3060</b> | <b>3060</b> | <b>3070</b> | <b>3100</b> | <b>3130</b> | <b>3170</b> |
| <b>Total Production</b> |              |   | <b>2255</b> | <b>2465</b> | <b>2630</b> | <b>2560</b> | <b>2830</b> | <b>2730</b> | <b>2800</b> | <b>2840</b> | <b>3020</b> |
| Imports                 |              |   | 111         | 52          | 33          | 31          | 3           | 55          |             |             |             |
| Exports                 |              |   | 225         | 270         | 241         | 209         | 266         | 204         |             |             |             |
| Apparent Consumption    |              |   | 2141        | 2247        | 2422        | 2382        | 2567        | 2581        |             |             |             |
| <b>Utilization Rate</b> |              |   | <b>120</b>  | <b>118</b>  | <b>116</b>  | <b>120</b>  | <b>108</b>  | <b>112</b>  | <b>111</b>  | <b>110</b>  | <b>105</b>  |
| <b>Real Consumption</b> |              |   | <b>2144</b> | <b>2246</b> | <b>2413</b> | <b>2404</b> | <b>2591</b> | <b>2571</b> | <b>2635</b> | <b>2799</b> | <b>3089</b> |
| LDPE                    |              |   | 704         | 785         | 794         | 735         | 791         | 755         | 755         | 774         | 781         |
| LLDPE                   |              |   | 182         | 181         | 235         | 257         | 310         | 334         | 365         | 413         | 532         |
| HDPE                    |              |   | 248         | 273         | 325         | 348         | 417         | 404         | 404         | 494         | 644         |
| ETHYLENE OXIDE          |              |   | 100         | 117         | 140         | 140         | 140         | 129         | 129         | 129         | 129         |
| EDC                     |              |   | 458         | 444         | 474         | 492         | 513         | 463         | 499         | 499         | 499         |
| ETHYLBENZENE            |              |   | 200         | 192         | 174         | 194         | 167         | 200         | 193         | 189         | 184         |
| ACETALDEHYDE            |              |   | 55          | 56          | 63          | 54          | 52          | 65          | 65          | 65          | 65          |
| ETHANOL                 |              |   | 60          | 65          | 65          | 47          | 50          | 54          | 50          | 54          | 57          |
| EPDM                    |              |   | 37          | 37          | 38          | 37          | 41          | 41          | 42          | 42          | 43          |
| MISCELLANEOUS           |              |   | 100         | 96          | 105         | 100         | 110         | 126         | 133         | 140         | 155         |

Average Annual Consumption Growth Rates  
ETHYLENE (% p.a.)

| 1990-1995 | 1991-1995 | 1995-1996 | 1995-1997 | 1995-2000 |
|-----------|-----------|-----------|-----------|-----------|
| 4         | 3         | 3         | 4         | 4         |

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Process Routes:  
1 : STEAM-CRACKING