

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | | |
|--|-----------------------|------------------------|---------------------|---|-----------------------|------------------------|----------------------------|--|---------------------------|--------------------|------------|---------------------|--------------|--------------------|---------------------|---------------|-----------------|---------------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
| ALBANIA | | | | | | | | | | | | | | | | | | |
| Albpetrol—Ballshi..... | 17,800 | 4,500 | ² 12,000 | .... | .... | 3,500 | .... | 17,400 | .... | .... | 600 | .... | 700 | .... | 6.5 | 700 | 60 | .... |
| Fieri..... | 8,500 | 6,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total | 26,300 | 10,500 | 12,000 | 0 | 0 | 3,500 | 0 | 17,400 | 0 | 0 | 600 | 0 | 700 | 0 | 6.5 | 700 | 60 | 0 |
| ALGERIA | | | | | | | | | | | | | | | | | | |
| Naftec SPA—Algiers..... | 60,000 | .... | .... | .... | .... | ¹ 15,000 | .... | ¹ 14,400 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Hassi-Messaoud | 30,000 | .... | .... | .... | .... | ¹ 2,400 | .... | ¹ 2,700 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Jarzew | 60,000 | 5,447 | .... | .... | .... | ¹ 11,500 | .... | ¹ 7,380 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| | | | | | | | | ¹ 3,470 | | | | | | | | | | |
| Skikda | 300,000 | 5,447 | .... | .... | .... | ¹ 60,000 | .... | ¹ 54,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total | 450,000 | 10,894 | 0 | 0 | 0 | 88,900 | 0 | 81,950 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 |
| ANGOLA | | | | | | | | | | | | | | | | | | |
| Finia Petroleos de Angola— Luanda..... | 39,000 | 2,500 | .... | .... | .... | ¹ 1,900 | .... | ¹ 3,800 2,800 | .... | .... | .... | .... | .... | .... | .... | .... | .... | 950 |
| Total | 39,000 | 2,500 | 0 | 0 | 0 | 1,900 | 0 | 6,600 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 950 |
| ARGENTINA | | | | | | | | | | | | | | | | | | |
| Destileria Argentina de Petroleo SA—Dock Sud | 4,000 | 1,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Lomas de Zamora | 8,000 | 1,300 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 900 | .... | .... | .... | .... | 600 |
| Esso SA Petrolera Argentina— Campana | 84,500 | 48,000 | ² 24,000 | .... | ¹ 26,500 | ¹ 11,000 | .... | ¹ 10,000 ³ 7,500 ⁷ 14,000 | .... | .... | .... | .... | .... | .... | .... | 1,000 | .... | .... |
| Petroleo Brasileiro SA— Bahia Blanca | 28,975 | 11,875 | .... | ² 3,420 | ¹ 7,110 | ¹ 5,400 | .... | ² 7,920 | .... | .... | .... | ³ 2,700 | .... | .... | .... | .... | .... | .... |
| Refineria San Lorenzo SA— San Lorenzo | 37,600 | 16,100 | .... | ¹ 3,500 ² 12,500 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Refinor SA—Campo Duran..... | 32,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Repsol YPF SA—La Plata | 189,000 | 67,000 | ² 38,000 | .... | ¹ 67,000 | ¹ 12,000 | .... | ¹ 11,400 ² 20,400 ⁵ 16,500 ¹¹ 5,400 | .... | .... | .... | ³ 9,000 | 5,500 | .... | .... | 1,500 | 30 | 8,300 |
| | | | | | | | | ¹ 11,600 ⁵ 18,000 ¹³ 3,000 | | | | | | | | | | |
| Lujan de Cuyo..... | 106,000 | 65,000 | ² 38,000 | .... | ¹ 22,700 | ¹ 10,700 | ^c 121,000 | ¹ 11,600 | ² 3,150 | .... | .... | ³ 3,500 | .... | ¹ 1,000 | ¹ 18.0 | 1,550 | 30 | .... |
| Plaza Huincul..... | 25,000 | .... | .... | .... | .... | ¹ 3,000 | .... | ⁵ 18,000 ¹³ 3,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Shell Cia. Argentina de Petroleo SA—Buenos Aires..... | 110,000 | 38,500 | ³ 6,500 | ² 18,900 | ¹ 26,000 | ¹ 17,900 | .... | ² 18,200 7,500 | ² 1,700 | ¹ 500 | .... | .... | 1,500 | .... | .... | .... | .... | 4,200 |
| Total | 625,075 | 248,775 | 106,500 | 38,320 | 149,310 | 60,000 | 21,000 | 151,420 | 4,850 | 500 | 0 | 15,200 | 7,900 | 1,000 | 18.0 | 4,050 | 60 | 13,100 |
| ARUBA | | | | | | | | | | | | | | | | | | |
| Valero Aruba Refinery— San Nicolas ^H | 230,000 | 160,000 | ² 64,000 | ² 48,000 | .... | .... | ^m 160,000 | ⁷ 130,000 ⁶ 65,000 | .... | .... | .... | .... | .... | .... | ² 95.0 | 4,000 | 300 | 1,000 |
| Total | 230,000 | 160,000 | 64,000 | 48,000 | 0 | 0 | 60,000 | 195,000 | 0 | 0 | 0 | 0 | 0 | 0 | 95.0 | 4,000 | 300 | 1,000 |
| AUSTRALIA | | | | | | | | | | | | | | | | | | |
| BP PLC—Bulwer Island* | 85,500 | 34,200 | .... | .... | ¹ 20,700 | ¹ 12,600 | 15,300 | ¹ 11,700 32,400 | ² 2,700 | .... | .... | .... | 1,800 | .... | 26.0 | .... | 35 | 1,980 |
| Kwinana*..... | 132,050 | 20,900 | .... | .... | ¹ 31,500 | ³ 21,600 | .... | ¹ 39,600 ⁵ 21,600 | ² 3,600 | ¹ 2,100 | .... | ¹ 13,500 | 3,650 | .... | .... | .... | 70 | 2,000 |
| Caltex Refineries (NSW) Ltd.— Kurnell | 105,500 | .... | .... | .... | ¹ 36,157 | ³ 26,000 | .... | ¹ 2,600 ⁵ 9,600 | ² 3,300 | ¹ 1,600 | .... | 8,200 | .... | .... | .... | .... | .... | .... |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | | |
|---|-----------------------|------------------------|---------------------|-----------------------|-----------------------|--|----------------------------|--|---------------------------|--------------------|--------------------|---------------------|--------|--------------------|---------------------------------------|---------------|-----------------|---------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
| Lytton..... | 105,500 | .... | .... | .... | ¹ 36,157 | ² 26,000 | .... | ¹ 26,000 ⁵ 9,600 | ² 3,300 | ¹ 1,600 | .... | ³ 8,200 | .... | .... | ⁵ 50.2 ⁷ 7.0 | .... | .... | .... |
| Inland Oil Refiners (Qld.) Pty. Ltd.—Eromanga..... | 1,425 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| ExxonMobil Refining Supply Co.—Altona..... | 130,000 | 83,500 | .... | .... | ¹ 29,500 | ¹ 36,000 | .... | ¹ 51,000 ⁵ 6,500 | ¹ 3,000 | .... | .... | .... | .... | .... | .... | .... | 10 | .... |
| Shell Refining (Australia) Pty. Ltd.—Clyde..... | 85,000 | 21,000 | .... | .... | ¹ 35,000 | ² 20,000 | .... | 37,000 7,000 | ² 3,000 | ¹ 2,100 | .... | .... | .... | .... | .... | .... | .... | 3,000 |
| Geelong..... | 110,000 | 10,000 | .... | .... | ¹ 40,000 | ¹ 11,000 ³ 20,000 | .... | 54,000 14,000 ¹³ 4,000 3,000 | ² 4,500 | ¹ 2,700 | .... | ³ 8,000 | 2,800 | .... | .... | .... | .... | 3,000 |
| Total | 754,975 | 169,600 | 0 | 0 | 229,014 | 173,200 | 15,300 | 329,600 | 23,400 | 10,100 | 0 | 37,900 | 8,250 | 0 | 83.2 | 0 | 115 | 9,980 |
| AUSTRIA | | | | | | | | | | | | | | | | | | |
| OMV AG—Schwechat | 208,600 | 65,000 | .... | ² 16,875 | ¹ 26,250 | ¹ 32,725 | .... | ¹ 46,400 ²⁴ 8,800 37,300 38,300 12,600 | .... | .... | .... | ³ 14,400 | .... | ¹ 1,600 | .... | .... | 180 | 1,470 |
| Total | 208,600 | 65,000 | 0 | 16,875 | 26,250 | 32,725 | 0 | 139,400 | 0 | 0 | 0 | 14,400 | 0 | 1,600 | 0.0 | 0 | 180 | 1,470 |
| AZERBAIJAN | | | | | | | | | | | | | | | | | | |
| Azneftiyag—Baku..... | 238,978 | 66,157 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 16,200 | .... | .... | .... | .... | 5,000 |
| Azneftyanajag—New Baku | 160,000 | 71,043 | ² 38,529 | .... | ¹ 57,750 | ² 24,466 | .... | ¹ 25,300 ⁸ 42,192 | ¹ 930 | .... | .... | .... | .... | .... | .... | 1,400 | .... | .... |
| Total | 398,978 | 137,200 | 38,529 | 0 | 57,750 | 24,466 | 0 | 67,492 | 930 | 0 | 0 | 0 | 16,200 | 0 | 0.0 | 1,400 | 0 | 5,000 |
| BAHRAIN | | | | | | | | | | | | | | | | | | |
| Bahrain Petroleum Co.—Sitra* | 248,900 | 189,810 | .... | ² 19,800 | ¹ 41,400 | ¹ 10,800 | ^m 148,600 | ¹ 10,800 ⁶ 23,400 | .... | ¹ 3,330 | .... | .... | .... | .... | ¹ 34.0 | .... | 230 | 13,050 |
| Total | 248,900 | 189,810 | 0 | 19,800 | 41,400 | 10,800 | 48,600 | 34,200 | 0 | 3,330 | 0 | 0 | 0 | 0 | 34.0 | 0 | 230 | 13,050 |
| BANGLADESH | | | | | | | | | | | | | | | | | | |
| Eastern Refinery Ltd.— Chittagong..... | 33,000 | 4,000 | .... | ² 10,000 | .... | ¹ 1,800 | ^m 11,200 | ¹ 2,000 | .... | .... | .... | .... | .... | .... | ¹ 1.0 ⁴ 1.0 | .... | .... | .... |
| Total | 33,000 | 4,000 | 0 | 10,000 | 0 | 1,800 | 1,200 | 2,000 | 0 | 0 | 0 | 0 | 0 | 0 | 2.0 | 0 | 0 | 0 |
| BELARUS | | | | | | | | | | | | | | | | | | |
| P.O. Naftan Refinery— Novopolotsk..... | 170,000 | 50,000 | .... | ² 36,000 | .... | ¹ 44,000 | .... | ¹ 34,500 115,000 | .... | .... | ¹ 2,785 | ³ 4,500 | 3,760 | .... | ¹ 7.6 ⁵ 7.6 | .... | .... | .... |
| Slavneft—Mozyr | 323,323 | 55,800 | .... | ² 24,000 | ¹ 44,000 | ¹ 24,000 ³ 24,000 | ¹ 30,000 | ¹ 50,600 62,000 | .... | .... | .... | .... | .... | .... | ⁴ 7.6 | .... | 85 | 9,630 |
| Total | 493,323 | 105,800 | 0 | 60,000 | 44,000 | 92,000 | 30,000 | 262,100 | 0 | 0 | 2,785 | 4,500 | 3,760 | 0 | 22.8 | 0 | 85 | 9,630 |
| BELGIUM | | | | | | | | | | | | | | | | | | |
| AB Nynas Petroleum NV— Antwerp..... | 21,000 | 21,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 14,000 |
| Belgian Refining Corp. NV— Antwerp..... | 109,013 | 54,625 | .... | ² 20,300 | .... | ² 9,900 | .... | ⁹ 85,540 | .... | .... | .... | ³ 2,250 | .... | .... | .... | .... | 97 | .... |
| ExxonMobil Refining Supply Co.— Antwerp..... | 275,000 | 128,000 | .... | .... | ¹ 34,000 | ² 37,000 | .... | ¹ 67,000 ⁴⁴ 4,000 ⁵ 57,000 ⁸ 88,000 | ¹ 7,500 | .... | .... | .... | .... | .... | ¹ 44.0 | .... | 355 | 4,700 |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | | |
|---|-----------------------|---------------------|--------|--------------------|--------------------|---------------------|-------------------------|-------------------------------|---------------------------|-----------|-----------|---------------|-------|------------|------------------|------------|--------------|---------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
| Fina Raffinaderij Antwerpen—Antwerp..... | 308,000 | 96,000 | .... | 243,000 | 179,500 | 352,000 | .... | 286,300 75,000 1070,000 | 26,700 | .... | .... | .... | .... | 14,500 | .... | .... | 650 | 11,300 |
| Petroplus—Antwerp | 90,000 | .... | .... | .... | .... | 11,400 | .... | 222,000 11,000 | .... | .... | .... | .... | .... | .... | .... | .... | 30 | .... |
| Total | 803,013 | 299,625 | 0 | 63,300 | 113,500 | 100,300 | 0 | 605,840 | 14,200 | 0 | 0 | 2,250 | 0 | 4,500 | 44.0 | 0 | 1,132 | 30,000 |

BOLIVIA

| | | | | | | | | | | | | | | | | | | |
|---|---------------|--------------|----------|----------|----------|--------------------|----------|---|----------|----------|----------|----------|--------------|----------|------------|----------|----------|------------|
| Empresa Boliviana de Refinacion—Cochabamba | 27,250 | 2,210 | .... | .... | .... | ¹ 8,160 | .... | ¹ 8,160 ¹³ 499 | .... | .... | .... | .... | 2,210 | .... | .... | .... | .... | 232 |
| Santa Cruz de la Sierra | 20,000 | .... | .... | .... | .... | ¹ 6,400 | .... | ¹ 6,400 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total | 47,250 | 2,210 | 0 | 0 | 0 | 14,560 | 0 | 15,059 | 0 | 0 | 0 | 0 | 2,210 | 0 | 0.0 | 0 | 0 | 232 |

BRAZIL

| | | | | | | | | | | | | | | | | | | |
|--|------------------|----------------|---------------------|--|---------------------|---------------------|----------|--|--------------------|----------|----------|----------|---------------|--------------------|-------------------|--------------|------------|---------------|
| Petroleo Brasileiro SA— Araucaria, Parana..... | 180,945 | 89,869 | .... | .... | ¹ 53,904 | .... | .... | ⁵ 29,249 | .... | .... | .... | .... | .... | .... | ¹ 10.0 | .... | 70 | 5,000 |
| Betim, Minas Gerais..... | 144,756 | 77,203 | ² 22,265 | .... | ¹ 40,269 | .... | .... | ⁴ 10,547 ⁵ 15,234 ¹² 10,547 | .... | .... | .... | .... | .... | .... | 8.0 | 1,062 | 73 | 6,000 |
| Canoas, Rio Grande do Sul | 180,945 | 33,173 | .... | .... | ¹ 18,163 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 22 | 2,600 |
| Capuava, Maua, Sao Paulo..... | 51,268 | .... | .... | .... | ¹ 17,578 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 9 | .... |
| Cubatao, Sao Paulo..... | 162,851 | 77,806 | ² 31,054 | .... | ¹ 55,662 | ¹ 10,254 | .... | ⁸ 29,249 | ² 3,145 | .... | .... | .... | .... | ¹ 1,580 | 30.0 | 1,481 | 70 | .... |
| Duque de Caxias, Rio de Janeiro | 232,213 | 112,186 | .... | .... | ¹ 43,944 | ¹ 11,132 | .... | ⁵ 32,225 ⁸ 29,921 | .... | .... | .... | .... | 13,712 | ¹ 1,140 | 10.0 | .... | 62 | 2,300 |
| Fortaleza, Ceara..... | 6,032 | 6,032 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 1,076 | .... | 1.0 | .... | .... | 3,500 |
| Manaus, Amazonas..... | 44,030 | 6,635 | .... | .... | ¹ 2,930 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 103 | 1,100 |
| Mataripe, Bahia..... | 293,734 | 126,058 | .... | .... | ¹ 87,888 | .... | .... | .... | .... | .... | .... | .... | 5,221 | .... | 1.0 | .... | 72 | 2,300 |
| Paulinia, Sao Paulo | 350,824 | 155,010 | ² 32,811 | .... | ¹ 93,747 | .... | .... | ² 17,578 | .... | .... | .... | .... | .... | ¹ 1,900 | 28.0 | 1,565 | 106 | 4,000 |
| Sao Jose dos Campos, Sao Paulo..... | 241,536 | 120,768 | .... | .... | ¹ 82,029 | .... | .... | ⁴ 20,507 ⁵ 38,085 ¹² 20,507 | .... | .... | .... | .... | .... | ¹ 1,400 | 10.0 | .... | 173 | 2,600 |
| Refinaria de Petroleo Ipiranga SA—Rio Grande do Sul | 17,000 | 5,000 | .... | .... | ¹ 3,400 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Refinaria de Petroleos de Manguinhos SA— Rio de Janeiro..... | 14,000 | .... | .... | ¹ 3,800 ² 6,000 | .... | ¹ 3,000 | .... | ¹ 3,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total | 1,920,134 | 809,740 | 86,130 | 9,800 | 499,514 | 24,386 | 0 | 256,649 | 3,145 | 0 | 0 | 0 | 20,009 | 6,020 | 98.0 | 4,108 | 760 | 29,400 |

BRUNEI

| | | | | | | | | | | | | | | | | | | |
|---|--------------|----------|----------|----------|----------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|------------|----------|----------|----------|
| Brunei Shell Petroleum Co. Sdn. Bhd.—Seria | 8,600 | .... | .... | .... | .... | ¹ 5,700 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total | 8,600 | 0 | 0 | 0 | 0 | 5,700 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 |

BULGARIA

| | | | | | | | | | | | | | | | | | | |
|-----------------------|----------------|---------------|----------|---------------------|---------------------|--------------------|----------|--|--------------------|----------|--------------------|----------|----------|------------------|--------------------------------------|----------|-----------|--------------|
| Neftochim—Burgas..... | 115,240 | 49,900 | .... | ¹ 20,600 | ¹ 23,300 | ¹ 4,060 | .... | ¹ 7,600 ³ 2,600 ^{30,700} ⁸ 23,300 | ¹ 2,600 | .... | ¹ 2,000 | .... | .... | ¹ 790 | ¹ 8.4 ⁵ 1.9 | .... | 63 | 1,500 |
| Total | 115,240 | 49,900 | 0 | 20,600 | 23,300 | 4,060 | 0 | 64,200 | 2,600 | 0 | 2,000 | 0 | 0 | 790 | 10.3 | 0 | 63 | 1,500 |

CAMEROON

| | | | | | | | | | | | | | | | | | | |
|---|---------------|----------|----------|----------|----------|--------------------|----------|---|----------|----------|----------|----------|----------|----------|------------|----------|----------|----------|
| Societe Nationale de Raffinage— Cape Limboh Limbe..... | 42,000 | .... | .... | .... | .... | ⁴ 7,000 | .... | ¹ 9,500 ^{10,500} | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total | 42,000 | 0 | 0 | 0 | 0 | 7,000 | 0 | 20,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | | |
|---|-----------------------|------------------------|---------------------|-----------------------|-----------------------|--|----------------------------|---|---------------------------|--------------------|--|---|--------|------------|---|---------------|-----------------|---------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
| CANADA | | | | | | | | | | | | | | | | | | |
| Alberta | | | | | | | | | | | | | | | | | | |
| Husky Oil Operations Ltd.— Lloydminster | 25,000 | 15,000 | 7,500 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 685 | .... | 12,000 |
| Imperial Oil—Edmonton | 187,200 | 66,100 | .... | .... | ¹ 55,100 | ¹ 20,900 | .... | ² 50,400 ⁷ 22,800 ¹² 29,450 | ² 15,700 | .... | .... | ¹ 6,600 | 2,600 | .... | ⁶ 20.0 | .... | 43 | 10,400 |
| Parkland Refining Ltd.— Bowden | 6,000 | .... | .... | .... | .... | ¹ 2,800 | .... | ¹ 2,800 ² 2,800 | .... | .... | .... | ³ 2,800 | .... | .... | .... | .... | .... | .... |
| Petro-Canada Products Ltd.— Edmonton..... | 125,200 | 27,000 | ² 7,500 | .... | ¹ 34,300 | ¹ 15,300 | ^c 418,700 | ⁷ 8,000 | ² 12,600 | .... | .... | ¹ 3,100 ³ 12,000 | .... | .... | ¹ 30.8 | 371 | 56 | .... |
| Shell Canada Ltd.—Scotford | 97,900 | .... | .... | .... | .... | ³ 21,500 | ¹ 40,500 | ² 28,350 ⁴ 28,350 | .... | .... | ¹ 5,300 ³ 270 | .... | .... | .... | .... | .... | 11 | .... |
| Total | 441,300 | 108,100 | 15,000 | 0 | 89,400 | 60,500 | 59,200 | 172,950 | 28,300 | 0 | 5,570 | 24,500 | 2,600 | 0 | 50.8 | 1,056 | 110 | 22,400 |
| British Columbia | | | | | | | | | | | | | | | | | | |
| ChevronTexaco Corp.—Burnaby ... | 52,000 | 11,000 | .... | .... | ¹ 18,000 | ¹ 9,000 | .... | ¹ 15,000 ⁵ 15,000 | ¹ 3,000 | ¹ 2,000 | .... | ³ 10,000 | .... | .... | .... | .... | 20 | 2,000 |
| Husky Oil Operations Ltd.— Prince George | 10,250 | .... | .... | .... | ¹ 3,300 | ¹ 1,600 | .... | ¹² 14,000 | .... | .... | .... | ³ 900 | .... | .... | .... | .... | 7 | .... |
| Total | 62,250 | 11,000 | 0 | 0 | 21,300 | 10,600 | 0 | 44,000 | 3,000 | 2,000 | 0 | 10,900 | 0 | 0 | 0.0 | 0 | 27 | 2,000 |
| New Brunswick | | | | | | | | | | | | | | | | | | |
| Irving Oil Ltd.—St. John | 250,000 | 100,000 | .... | ² 20,000 | ¹ 95,000 | ¹ 35,000 | ^c 134,000 | ¹ 48,000 ³ 14,000 ⁴ 30,000 | ¹ 16,000 | .... | .... | ¹ 10,000 | .... | .... | ¹ 47.0 | .... | 200 | .... |
| Total | 250,000 | 100,000 | 0 | 20,000 | 95,000 | 35,000 | 34,000 | 92,000 | 16,000 | 0 | 0 | 10,000 | 0 | 0 | 47.0 | 0 | 200 | 0 |
| Newfoundland | | | | | | | | | | | | | | | | | | |
| North Atlantic Refining Ltd.— Come By Chance | 105,000 | 52,250 | .... | ² 16,200 | .... | ¹ 23,400 | ^c 431,500 | ² 18,900 ¹⁶ 200 | .... | .... | .... | .... | .... | .... | ¹ 66.0 | .... | 200 | .... |
| Total | 105,000 | 52,250 | 0 | 16,200 | 0 | 23,400 | 31,500 | 35,100 | 0 | 0 | 0 | 0 | 0 | 0 | 66.0 | 0 | 200 | 0 |
| Nova Scotia | | | | | | | | | | | | | | | | | | |
| Imperial Oil—Dartmouth..... | 82,200 | 41,500 | .... | .... | ¹ 28,500 | ¹ 10,300 | .... | ¹ 10,600 ² 17,200 ⁴ 14,700 ⁷ 20,600 | .... | ¹ 4,200 | .... | .... | .... | .... | .... | .... | 90 | 1,600 |
| Total | 82,200 | 41,500 | 0 | 0 | 28,500 | 10,300 | 0 | 63,100 | 0 | 4,200 | 0 | 0 | 0 | 0 | 0.0 | 0 | 90 | 1,600 |
| Ontario | | | | | | | | | | | | | | | | | | |
| Imperial Oil—Nanticoke..... | 112,000 | 47,500 | .... | .... | ¹ 47,500 | ³ 31,400 | .... | ¹ 25,500 ⁵ 28,500 ⁷ 12,700 ¹² 42,800 | ¹ 11,900 | .... | .... | .... | .... | .... | .... | .... | 100 | 6,800 |
| Sarnia | 120,800 | 30,800 | ¹ 23,300 | .... | ¹ 26,030 | ¹ 17,100 ² 16,800 | ^c 317,480 | ⁵ 12,200 ⁷ 20,700 ¹¹ 5,900 ¹³ 53,000 | .... | .... | ¹ 5,550 | .... | 5,000 | .... | ¹ 27.4 ⁵ 27.4 ⁶ 25.1 | 850 | 170 | .... |
| Nova Chemicals (Canada) Ltd.— Corunna..... | 80,000 | 33,000 | .... | ¹ 67,000 | .... | .... | .... | ¹³ 17,000 | .... | .... | ¹ 10,200 | .... | .... | .... | .... | .... | .... | .... |
| Petro-Canada Products Ltd.— Mississauga ..... | .... | .... | .... | .... | .... | ³ 9,000 | ³ 10,300 | ¹ 10,300 | .... | .... | .... | .... | 11,700 | .... | ¹ 13.3 | .... | 41 | .... |
| Oakville | 83,000 | 38,100 | .... | .... | ¹ 25,400 | ¹ 11,600 | .... | ¹ 13,300 ⁵ 6,500 | ¹ 3,300 | .... | .... | ³ 7,100 | .... | .... | .... | .... | 44 | 15,100 |
| Shell Canada Ltd.—Sarnia..... | 71,400 | 24,700 | .... | ² 4,050 | ¹ 14,400 | ¹ 21,000 | ¹ 6,750 | ¹ 15,000 ⁶ 6,300 | .... | ¹ 1,600 | ¹ 2,700 | .... | .... | .... | .... | .... | 55 | .... |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | | |
|---|-----------------------|------------------------|--------------------|-----------------------|-----------------------|--|--|--|---------------------------|--------------------|--|---------------------|---------------|------------|--|---------------|-----------------|---------------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
| Suncor Energy Products— Sarnia | 79,500 | 18,000 | .... | ² 6,700 | ² 16,500 | ¹ 26,200 | ^c ¹ 24,100 | ¹ 25,000 ⁴ 5,800 | ² 5,500 | .... | ¹ 10,200 | .... | .... | .... | ^a ¹ 41.0 | .... | 47 | 5,500 |
| Total | 546,700 | 192,100 | 23,300 | 77,750 | 129,830 | 133,100 | 58,630 | 300,500 | 20,700 | 1,600 | 28,650 | 7,100 | 16,700 | 0 | 134.2 | 850 | 457 | 27,400 |
| Quebec | | | | | | | | | | | | | | | | | | |
| Petro-Canada Products Ltd.— Montreal | 105,000 | 42,300 | .... | ¹ 12,600 | ¹ 27,100 | ¹ 30,200 | ^c ² 3,600 ^c ⁴ 17,100 | ¹ 25,700 ⁵ 10,500 | ¹ 2,700 | ¹ 800 | ¹ 9,800 ² 4,100 | .... | .... | .... | ¹ 43.7 | .... | .... | 24,800 |
| Shell Canada Ltd.—Montreal..... | 129,900 | 49,500 | .... | ² 12,000 | ¹ 24,000 | ¹ 20,700 | ¹ 11,700 | ² 34,200 ⁴ 27,000 | ² 2,500 | .... | .... | ³ 6,800 | 3,060 | .... | .... | .... | .... | 7,200 |
| Valero Energy Corp.— St. Romuald | 215,000 | 45,000 | .... | .... | ¹ 60,000 | ¹ 19,000 ³ 31,000 | .... | ¹ 31,000 ² 20,750 ⁵ 26,400 ¹ 246,000 | .... | ¹ 5,200 | .... | ³ 20,200 | .... | .... | .... | .... | 50 | 24,000 |
| Total | 449,900 | 136,800 | 0 | 24,600 | 111,100 | 100,900 | 32,400 | 221,550 | 5,200 | 6,000 | 13,900 | 27,000 | 3,060 | 0 | 43.7 | 0 | 50 | 56,000 |
| Saskatchewan | | | | | | | | | | | | | | | | | | |
| Consumers' Cooperative Refineries Ltd.—Regina..... | 80,000 | 38,000 | ² 9,000 | .... | ¹ 18,000 | ¹ 8,000 | ^c ¹ 15,000 ^c ² 30,000 | ¹ 12,000 ² 4,000 ⁵ 8,000 ⁸ 28,000 ¹ 214,000 | .... | ¹ 4,000 | .... | ³ 4,000 | .... | .... | ^{1a} 100.0 ⁴ 25.0 | 420 | 320 | .... |
| Total | 80,000 | 38,000 | 9,000 | 0 | 18,000 | 8,000 | 45,000 | 66,000 | 0 | 4,000 | 0 | 4,000 | 0 | 0 | 125.0 | 420 | 320 | 0 |

CHILE

| | | | | | | | | | | | | | | | | | | |
|---|----------------|---------------|---------------------|--------------------|---------------------|---------------------|----------------------------------|----------|------------------|----------|----------|--------------------|----------|--------------------|------------|------------|-----------|----------|
| Empresa Nacional de Petroleo— Aconcagua ¹ | 97,650 | 37,800 | .... | ¹ 7,560 | ¹ 28,490 | ¹ 13,860 | ^m ¹ 26,460 | .... | ¹ 910 | .... | .... | ¹ 4,730 | .... | ¹ 1,580 | .... | .... | 45 | .... |
| Gregorio | 15,750 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| BioBio ² | 113,400 | 47,250 | ¹ 13,860 | ¹ 6,300 | ¹ 22,050 | ¹ 12,600 | ^c ¹ 23,940 | .... | .... | .... | .... | ¹ 3,780 | .... | .... | .... | 656 | 45 | .... |
| Total | 226,800 | 85,050 | 13,860 | 13,860 | 50,540 | 26,460 | 50,400 | 0 | 910 | 0 | 0 | 8,510 | 0 | 1,580 | 0.0 | 656 | 90 | 0 |

CHINA

| | | | | | | | | | | | | | | | | | | |
|---|---------|------|--|------|--------|--------|-------|--------|--------------------|------|------|------|--------|------|------|------|------|------|
| China National Petroleum Corp.— Anshan | 50,200 | .... | .... | .... | 2,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Dalian..... | 142,600 | .... | .... | .... | 70,000 | 3,000 | .... | 6,000 | ² 2,000 | .... | .... | .... | 6,000 | .... | .... | .... | .... | .... |
| Dandong..... | 6,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Daqing | 70,300 | .... | ² 13,000 | .... | 14,000 | 4,000 | 8,000 | 12,000 | ² 1,000 | .... | .... | .... | 10,000 | .... | .... | 325 | .... | .... |
| ..... | 120,500 | .... | ³ 13,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Dushanzi..... | 120,500 | .... | ² 8,000 ³ 6,000 | .... | 12,000 | 6,000 | .... | 8,000 | .... | .... | .... | .... | 2,000 | .... | .... | 450 | .... | .... |
| Fushun..... | 184,800 | .... | ² 35,000 | .... | 66,000 | 23,000 | 8,000 | 5,000 | ¹ 3,000 | .... | .... | .... | 1,000 | .... | .... | 825 | .... | .... |
| Golmud..... | 20,000 | .... | .... | .... | .... | 3,000 | .... | 3,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Harbin..... | 30,000 | .... | ³ 1,000 | .... | 6,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Heilongjiang..... | 7,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| ..... | 7,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| ..... | 10,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| ..... | 2,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Huhhot..... | 20,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Jilin | 90,400 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| ..... | 4,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| ..... | 4,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| ..... | 3,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Jinxi | 100,400 | .... | ³ 1,000 | .... | 24,000 | 3,000 | .... | 5,000 | .... | .... | .... | .... | 4,000 | .... | .... | .... | .... | .... |
| Jinzhou | 110,500 | .... | ² 20,000 | .... | 16,000 | 6,000 | .... | 8,000 | .... | .... | .... | .... | .... | .... | .... | 500 | .... | .... |
| Karamay | 66,300 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Lanzhou..... | 110,500 | .... | ³ 15,000 | .... | 24,000 | 2,000 | .... | 3,000 | ¹ 1,000 | .... | .... | .... | 7,000 | .... | .... | .... | .... | .... |
| ..... | 20,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Liaohe..... | 50,200 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | | |
|---|-----------------------|------------------------|---------------------|-----------------------|-----------------------|--|----------------------------|--|---------------------------|--------------------|--|---------------------|--------|--------------------|---|---------------|-----------------|---------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
| Liaoning..... | 2,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Liaoyang..... | 80,300 | .... | .... | .... | .... | 3,000 | .... | 1,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Linyuan..... | 50,200 | .... | .... | .... | 17,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Qianguo..... | 50,200 | .... | .... | .... | 24,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Qinghai..... | 27,100 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Shaanxi..... | 2,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| ..... | 6,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Sichuan..... | 3,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Urumqi..... | 50,200 | .... | ² 8,000 | .... | 16,000 | 3,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | 200 | .... | .... |
| Xianyang..... | 50,200 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Yanchang..... | 2,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Yumen..... | 80,300 | .... | .... | .... | .... | 6,000 | .... | 3,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Zepu..... | 3,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Sinopec—Anqing..... | 111,528 | .... | ² 8,000 | .... | 24,000 | .... | .... | 4,000 | ² 1,000 | .... | .... | .... | .... | .... | .... | 225 | .... | .... |
| Changling..... | 101,389 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Fujian..... | 81,111 | .... | .... | .... | 16,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Gaoqiao..... | 219,000 | .... | ³ 10,000 | .... | 38,000 | 4,000 | .... | 2,000 | ² 1,000 | .... | .... | .... | 6,000 | .... | .... | .... | .... | .... |
| Guangzhou..... | 156,139 | .... | ² 20,000 | .... | 44,000 | 8,000 | .... | 20,000 | ² 1,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Jinmen..... | 101,389 | .... | ² 8,000 | .... | 20,000 | 3,000 | 8,000 | 14,000 | .... | .... | .... | .... | 2,000 | .... | .... | 270 | .... | .... |
| Jinling..... | 212,917 | .... | ² 12,000 | .... | 44,000 | 3,000 | 16,000 | 3,000 | ² 1,000 | .... | .... | .... | .... | .... | .... | 490 | .... | .... |
| Jiujiang..... | 101,389 | .... | ³ 8,000 | .... | 24,000 | 3,000 | .... | 8,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Luoyang..... | 101,389 | .... | .... | .... | 40,000 | 14,000 | .... | 16,000 | ² 2,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Maoming..... | 273,750 | .... | ² 12,000 | .... | 32,000 | 3,000 | 16,000 | ² 16,000 | ² 1,000 | .... | .... | .... | 5,000 | .... | .... | 400 | .... | .... |
| Qilu..... | 212,917 | .... | ² 16,000 | .... | 46,000 | 3,000 | 42,000 | 22,000 | ¹ 3,000 | .... | .... | .... | .... | .... | .... | 400 | .... | .... |
| Shanghai..... | 178,444 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Shijiazhuang..... | 70,972 | .... | .... | .... | 24,000 | .... | .... | .... | ² 1,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Tianjin..... | 100,000 | .... | .... | .... | 35,000 | 4,000 | .... | .... | ² 1,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Wuhan..... | 101,389 | .... | ³ 8,000 | .... | 20,000 | .... | .... | .... | ² 1,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Yangzi..... | 162,222 | .... | ³ 20,000 | .... | .... | 21,000 | 24,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Yanshan..... | 162,222 | .... | .... | .... | 48,000 | 3,000 | .... | 5,000 | ² 1,000 | .... | .... | .... | 5,000 | .... | .... | .... | .... | .... |
| Zhenhai..... | 344,722 | .... | ² 24,000 | .... | 28,000 | 9,000 | .... | ⁸ 57,600 | ² 1,000 | .... | .... | .... | .... | .... | .... | 200 | .... | .... |
| West Pacific Petrochemical Corp.— Dalian..... | 100,000 | 40,000 | .... | .... | 37,000 | ¹ 14,000 | .... | ¹ 7,000 ² 4,000 ¹ 9,000 ¹⁰ 35,000 | ¹ 2,500 | .... | .... | .... | .... | ¹ 900 | .... | .... | 300 | .... |
| Total..... | 4,649,589 | 40,000 | 266,000 | 0 | 811,000 | 154,000 | 122,000 | 306,600 | 24,500 | 0 | 0 | 0 | 48,000 | 900 | 0.0 | 4,285 | 300 | 0 |
| CHINA, TAIWAN | | | | | | | | | | | | | | | | | | |
| Chinese Petroleum Corp.— Kaohsiung..... | 270,000 | 75,500 | ² 15,000 | .... | ¹ 25,000 | ² 15,000 | .... | ² 20,000 ⁸ 25,000 ¹⁰ 30,000 | .... | .... | ¹ 14,000 | ³ 10,000 | .... | ³ 3,616 | .... | 2,722 | 900 | 12,120 |
| Ta-Lin..... | 300,000 | .... | .... | .... | ¹ 25,000 | ³ 55,000 | .... | ¹⁰ 60,000 | .... | .... | .... | ³ 10,000 | 5,300 | .... | .... | .... | 250 | .... |
| Tao-Yuan..... | 200,000 | 36,000 | .... | .... | .... | ² 20,000 ³ 25,000 | .... | ¹⁰ 45,000 | .... | .... | .... | ³ 6,000 | .... | .... | ⁴ 52.0 | .... | 595 | .... |
| Formosa Petrochemical Co.— Mailiao..... | 450,000 | 80,000 | ² 36,000 | .... | ¹ 146,000 | .... | .... | ⁵ 126,000 ⁸ 52,000 ¹⁰ 140,000 | 14,200 | .... | .... | .... | .... | ¹ 4,500 | ² 270.0 ⁴ 19.0 | 1,500 | 1,500 | 5,500 |
| Total..... | 1,220,000 | 191,500 | 51,000 | 0 | 196,000 | 115,000 | 0 | 498,000 | 14,200 | 0 | 14,000 | 26,000 | 5,300 | 8,116 | 341.0 | 4,222 | 3,245 | 17,620 |
| COLOMBIA | | | | | | | | | | | | | | | | | | |
| Empresa Colombiana de Petroleos— Apiay..... | 2,250 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Barrancabermeja-Santander..... | 205,000 | 101,000 | .... | ² 33,000 | ¹ 64,000 | .... | .... | ⁸ 19,800 | ¹ 2,100 | .... | ¹ 1,600 ³ 600 | .... | 1,400 | .... | ¹ 18.0 | .... | .... | .... |
| Cartagena, Bolivar..... | 75,000 | 40,000 | ... | ² 19,000 | ¹ 26,000 | .... | .... | .... | .... | ¹ 2,100 | .... | .... | .... | .... | .... | .... | .... | .... |
| Orito, Putumayo..... | 1,800 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Tibu, N. de Santander..... | 1,800 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total..... | 285,850 | 141,000 | 0 | 52,000 | 90,000 | 0 | 0 | 19,800 | 2,100 | 2,100 | 2,200 | 0 | 1,400 | 0 | 18.0 | 0 | 0 | 0 |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | | |
|--|-----------------------|------------------------|---------------------|-----------------------|-----------------------|------------------------|----------------------------|----------------------------|---------------------------|-----------|---------------------|---------------------|--------------|---------------------|---------------------|---------------|-----------------|---------------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
| CONGO, BRAZZAVILLE | | | | | | | | | | | | | | | | | | |
| Coraf—Pointe-Noire | 21,000 | 8,000 | .... | .... | .... | ¹ 2,000 | ¹ 2,000 | 3,500 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total | 21,000 | 8,000 | 0 | 0 | 0 | 2,000 | 2,000 | 3,500 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 |
| COSTA RICA | | | | | | | | | | | | | | | | | | |
| Refinadora Costarricense de Petroleo SA—Limon | 24,000 | 600 | .... | ¹ 6,500 | .... | ¹ 1,200 | .... | 2,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total | 24,000 | 600 | 0 | 6,500 | 0 | 1,200 | 0 | 2,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 |
| CROATIA | | | | | | | | | | | | | | | | | | |
| Ina-Industrija Naft e d.d.—Rijeka.... | 89,994 | 33,996 | .... | ² 12,001 | ¹ 20,002 | ¹ 14,454 | ^{m2} 12,264 | ⁵ 22,776 | .... | .... | .... | .... | .... | .... | .... | .... | 60 | .... |
| Sisak | 80,000 | 16,000 | ²⁵ 5,000 | .... | ¹ 10,000 | ¹ 15,000 | .... | ¹ 15,000 | .... | .... | .... | .... | .... | .... | .... | 200 | .... | .... |
| Zagreb | 80,337 | 37,044 | .... | ² 11,525 | ¹ 21,000 | ¹ 19,914 | .... | ⁵ 24,780 | .... | .... | ¹⁹ 4,438 | .... | 470 | .... | .... | .... | 63 | .... |
| Total | 250,331 | 87,040 | 5,000 | 23,526 | 51,002 | 49,368 | 12,264 | 68,256 | 0 | 0 | 9,438 | 0 | 470 | 0 | 0.0 | 200 | 123 | 0 |
| CUBA | | | | | | | | | | | | | | | | | | |
| Cuba Petroleos—Cienfuegos | 76,000 | .... | .... | .... | .... | ¹ 7,500 | .... | ¹ 7,700 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Ermonos Dias, Santiago | 101,500 | 37,500 | .... | .... | .... | ¹ 7,500 | .... | ¹ 7,700 | .... | .... | .... | .... | .... | .... | 5.0 | .... | .... | 540 |
| Niko Lopes, Habana | 121,800 | 38,200 | .... | .... | ¹ 14,700 | ¹⁵ 5,000 | .... | ¹⁵ 5,250 | .... | .... | .... | .... | .... | .... | .... | .... | .... | 540 |
| Serhio Soto, Cabaiguan | 2,100 | .... | .... | .... | .... | .... | .... | 13,200 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total | 301,400 | 75,700 | 0 | 0 | 14,700 | 20,000 | 0 | 55,850 | 0 | 0 | 0 | 0 | 0 | 0 | 5.0 | 0 | 0 | 1,080 |
| CZECH REPUBLIC | | | | | | | | | | | | | | | | | | |
| Czech Refining Co.—Kralupy | 68,000 | 13,500 | .... | .... | ¹ 26,000 | ¹⁹ 4,440 | .... | ¹ 17,400 | .... | .... | .... | ²⁴ 3,300 | .... | ¹² 3,300 | ^{a28} 8.5 | .... | 24 | .... |
| Litvinov | 110,000 | 50,200 | .... | ² 15,700 | .... | ¹⁹ 4,400 | ^{c1} 25,000 | ¹ 22,100 | .... | .... | ¹ 670 | ³² 3,300 | .... | .... | ^{a2} 23.0 | .... | 185 | 8,800 |
| Koramo Kolin—Kolin ..... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 2,500 | .... | .... | .... | .... | .... |
| Paramo AS—Pardubice | 20,000 | 7,000 | .... | .... | .... | .... | .... | 6,000 | .... | .... | .... | .... | 300 | .... | .... | .... | .... | 3,000 |
| Total | 198,000 | 70,700 | 0 | 15,700 | 53,740 | 28,140 | 32,300 | 106,600 | 0 | 0 | 670 | 6,600 | 2,800 | 2,300 | 31.5 | 0 | 209 | 11,800 |
| DENMARK | | | | | | | | | | | | | | | | | | |
| AS Dansk Shell—Fredericia | 70,000 | .... | .... | ¹ 25,000 | .... | ¹ 12,900 | .... | ² 22,500 | .... | .... | .... | ³⁶ 6,000 | .... | .... | .... | .... | .... | .... |
| Dansk Statoil AS—Kalundborg | 106,400 | 22,000 | .... | ² 28,000 | .... | ¹⁸ 6,600 | .... | ¹⁸ 6,600 | .... | .... | .... | .... | .... | .... | .... | .... | .... | 8,000 |
| Total | 176,400 | 22,000 | 0 | 53,000 | 0 | 21,500 | 0 | 42,500 | 0 | 0 | 0 | 6,000 | 0 | 0 | 0.0 | 0 | 0 | 8,000 |
| DOMINICAN REPUBLIC | | | | | | | | | | | | | | | | | | |
| Falconbridge Dominicana C por A— Bona | 16,000 | .... | .... | .... | .... | .... | .... | ²⁶ 213 | .... | .... | .... | .... | .... | .... | ²⁰ 0.6 | .... | .... | .... |
| Refineria Dominicana de Petroleo SA—Haina | 32,300 | .... | .... | .... | .... | ¹⁷ 560 | .... | ¹ 14,670 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total | 48,300 | 0 | 0 | 0 | 0 | 7,560 | 0 | 20,883 | 0 | 0 | 0 | 0 | 0 | 0 | 0.6 | 0 | 0 | 0 |
| ECUADOR | | | | | | | | | | | | | | | | | | |
| Petroecuador—Esmeraldas | 110,000 | 45,300 | .... | ² 31,500 | ¹ 18,000 | ¹² 800 | .... | ⁹ 24,500 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| La Libertad | 46,000 | .... | .... | .... | .... | ³ 10,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Shushufindi | 20,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total | 176,000 | 45,300 | 0 | 31,500 | 18,000 | 12,800 | 0 | 24,500 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
|--|-----------------------|------------------------|---------------------|-----------------------|-----------------------|------------------------|----------------------------|--|---------------------------|-----------------|-------------------------------------|---------------------|-------|--|--------------------|-------|---------------------|---------------|-----------------|---------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | | | | | | |
| EGYPT | | | | | | | | | | | | | | | | | | | | |
| Alexandria Petroleum Co.— Alexandria (El-Mex)..... | 100,000 | 22,500 | .... | .... | .... | .... | .... | ¹¹ 1,436 ¹³ 21,000 | .... | .... | ¹⁶⁰³ ² 281 | .... | 1,436 | .... | ¹ 1.0 | 1 | .... | 2,010 | | |
| Ameriya Petroleum Refining Co.— Alexandria | 78,000 | 15,000 | .... | .... | .... | ¹ 12,000 | .... | ² 14,000 4,000 7,000 10,000 ¹³ 700 ¹¹ 1,800 | ²⁹ 9,000 | .... | ¹ 700 | .... | 2,000 | .... | ²⁴ 4.0 | .... | .... | .... |  |  |
| Assiut Petroleum Refining Co.— Assiut..... | 47,000 | .... | .... | .... | .... | ³⁷ 0,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |
| Cairo Petroleum Refining Co.— Mostorod | 145,000 | .... | .... | .... | .... | ¹⁹ 0,000 | .... | ¹¹ 1,700 14,400 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |
| Tanta | 35,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |
| El-Nasr Petroleum Co.—El-Suez.... | 146,300 | .... | .... | .... | .... | .... | .... | ¹³ 32,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | 2,613 | | |
| Wadi-Feran | 8,550 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |
| Middle East Oil Refinery— Alexandria | 100,000 | 48,200 | ² 22,800 | .... | .... | ³ 21,700 | ¹ 33,500 | ¹ 32,400 ⁵ 28,600 | .... | .... | .... | ³ 10,700 | .... | .... | ¹⁵⁴ 4.0 | 1,060 | 290 | .... |  |  |
| Suez Petroleum Processing Co.— El-Suez | 66,400 | 9,500 | ² 16,470 | .... | .... | ¹ 12,540 | .... | ¹ 16,660 10,800 ¹¹ 1,306 | .... | .... | .... | .... | 1,005 | .... | ⁷ 3.5 | 540 | .... | .... |  |  |
| Total | 726,250 | 95,200 | 39,270 | 0 | 0 | 62,240 | 33,500 | 207,802 | 9,000 | 0 | 1,584 | 10,700 | 4,441 | 0 | 62.5 | 1,601 | 290 | 4,623 | | |
| EL SALVADOR | | | | | | | | | | | | | | | | | | | | |
| Esso Caribbean and Central America—Acajutla | 22,000 | 2,000 | .... | .... | .... | ¹³ 200 | .... | ¹⁵ 0,000 ⁴³ 0,000 ⁷ 7,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |
| Total | 22,000 | 2,000 | 0 | 0 | 0 | 3,200 | 0 | 15,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 | | |
| ERITREA | | | | | | | | | | | | | | | | | | | | |
| Petroleum Corp. of Eritrea— Assab | 14,564 | 2,219 | .... | .... | .... | ¹¹ 465 | .... | ⁸² 742 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |
| Total | 14,564 | 2,219 | 0 | 0 | 0 | 1,465 | 0 | 2,742 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 | | |
| FINLAND | | | | | | | | | | | | | | | | | | | | |
| Fortum Oil Oy—Naantali | 51,800 | 28,100 | .... | ²⁷ 380 | ² 12,900 | ³⁶ 930 | .... | ¹⁸ 100 44,320 ⁵¹⁶ 200 ⁸⁶ 030 ¹²⁴ 500 | .... | ¹⁵⁴⁰ | .... | .... | .... | .... | .... | .... | 60 | 5,700 | | |
| Porvoo | 200,000 | 70,100 | .... | ¹ 23,400 | ¹ 38,100 | ³ 37,500 | ¹ 19,400 | ¹⁶⁰ 400 ⁵⁶² 900 ⁸⁴⁰ 500 | ²⁶ 980 | .... | .... | .... | 4,000 | ¹² 560 ³² 590 | ¹²⁰ 0 | .... | 360 | .... |  |  |
| Total | 251,800 | 98,200 | 0 | 30,780 | 51,000 | 44,430 | 19,400 | 202,950 | 6,980 | 540 | 0 | 0 | 4,000 | 5,150 | 20.0 | 0 | 420 | 5,700 | | |
| FRANCE | | | | | | | | | | | | | | | | | | | | |
| BP PLC—Lavera | 207,100 | 72,200 | .... | ² 21,600 | ¹ 27,900 | ¹ 10,800 | ¹ 16,200 | ²²⁵ 200 48,600 | .... | .... | .... | ³ 15,300 | .... | .... | ¹³⁰ 0 | .... | .... | 13,500 | | |
| Cie. Rhenane de Raffinage— Reichstett-Vendenheim* | 79,800 | 30,600 | .... | ² 15,300 | ¹ 12,600 | ¹ 11,700 | .... | ² 18,900 18,900 | .... | .... | .... | .... | .... | .... | .... | .... | .... | 7,200 | | |
| ExxonMobil Refining Supply Co.—Dunkirk ..... | .... | 21,000 | .... | .... | .... | .... | .... | ¹¹ 48,000 | .... | .... | .... | .... | 6,000 | .... | .... | .... | .... | .... |  |  |
| Fos sur Mer | 119,000 | 38,000 | .... | .... | ¹ 29,000 | ¹ 21,000 | .... | ¹ 41,000 | .... | .... | .... | .... | .... | .... | .... | .... | 110 | .... |  |  |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | | |
|---|-----------------------|------------------------|--------|-----------------------|-----------------------|------------------------|----------------------------|--|---------------------------|--|--------------------|---------------------|--------|--------------------|---------------------|---------------|-----------------|---------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
| Port Jerome/NDG | 233,000 | 101,000 | .... | .... | ¹ 34,000 | ¹ 31,000 | .... | ⁴ 22,000 ⁵ 54,000 ¹ 34,000 ² 25,000 ⁴ 34,000 ⁵ 71,000 ⁸ 46,000 ¹¹ 6,500 | ¹ 7,000 | .... | .... | ³ 8,500 | 17,400 | .... | ⁶ 7.5 | .... | 220 | 6,900 |
| Ste. des Petroles Shell— Berre l'Etaing | 82,000 | 52,000 | .... | .... | ¹ 34,000 | ¹ 19,000 | .... | ² 37,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | 6,000 |
| Petit Couronne | 141,000 | 76,000 | .... | ² 12,000 | ¹ 20,000 | ¹ 28,000 | .... | ² 48,000 | .... | .... | .... | .... | 6,200 | .... | ¹ 10.0 | .... | .... | 11,000 |
| Total SA—Donges..... | 213,057 | 115,753 | .... | ² 32,730 | ¹ 48,153 | ¹ 11,706 | .... | ¹ 48,069 | ² 5,100 | .... | .... | ³ 4,205 | .... | .... | .... | .... | 170 | .... |
| Dunkirk | 160,304 | 39,562 | .... | .... | ¹ 42,927 | ² 23,475 | .... | ⁵ 74,587 | .... | .... | .... | ³ 14,401 | .... | ² 1,562 | .... | .... | 105 | .... |
| Feyzin..... | 117,313 | 41,433 | .... | ² 15,035 | ¹ 27,916 | ¹ 9,877 | .... | ¹ 47,412 ⁵ 37,149 | ¹ 4,427 | .... | .... | .... | .... | ² 1,915 | .... | .... | 110 | .... |
| Gonfreville l'Orcher | 342,914 | 91,660 | .... | ² 20,448 | ¹ 44,749 | ¹ 57,783 | .... | ⁸ 40,407 ¹ 104,787 ⁴ 38,374 ⁵ 80,647 ¹¹ 13,146 | .... | ¹ 2,773 ² 3,031 | ¹ 4,101 | ³ 19,792 | 8,372 | ² 1,355 | .... | .... | 227 | .... |
| Grandpuits | 97,037 | 48,280 | .... | ² 13,695 | ¹ 29,080 | ¹ 13,366 | .... | ¹ 29,357 ⁵ 33,635 | ² 3,884 | .... | .... | .... | .... | .... | .... | 160 | .... | .... |
| La Mede..... | 158,823 | 67,180 | .... | ² 18,938 | ¹ 34,896 | ¹ 27,577 | .... | ¹ 38,440 ⁵ 80,226 | ² 4,053 | .... | ¹ 1,558 | ³ 23,325 | .... | .... | .... | .... | 200 | 3,743 |
| Total | 1,951,348 | 794,668 | 0 | 149,746 | 385,221 | 291,896 | 16,200 | 1,260,711 | 24,464 | 5,804 | 5,659 | 85,523 | 37,972 | 4,832 | 47.5 | 160 | 1,142 | 48,343 |

GABON

| | | | | | | | | | | | | | | | | | | |
|---|---------------|----------|----------|--------------------|----------|--------------------|----------|--------------|----------|----------|----------|----------|----------|----------|------------|----------|----------|----------|
| Ste. Gabonaise de Raffinage— Port Gentil | 17,300 | .... | .... | ¹ 7,200 | .... | ¹ 1,400 | .... | 5,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total | 17,300 | 0 | 0 | 7,200 | 0 | 1,400 | 0 | 5,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 |

GERMANY

| | | | | | | | | | | | | | | | | | | |
|--|---------|---------|---------------------|---|---------------------|--|----------------------|---|------|--------------------|---|---------------------|-------|--------------------|--|-------|------|--------|
| Bayernoil Raffineriegesellschaft GMBH—Vohburg/Ingolstadt/ Neustadt | 262,300 | 87,800 | .... | ¹ 9,900 ² 38,900 | ¹ 61,000 | ¹ 38,000 ³ 17,800 | .... | ¹ 93,600 ⁴ 8,600 ⁵ 75,000 ⁷ 20,500 ¹² 25,200 | .... | .... | .... | ³ 14,200 | .... | ¹ 1,170 | ⁵ 84.0 | .... | 194 | 12,000 |
| BP PLC—Gelsenkirchen* ^J | 271,900 | 163,100 | ² 19,870 | ² 32,640 | ¹ 30,220 | ³ 31,200 | ^c 147,440 | ² 78,000 ⁴ 13,040 ⁵ 55,690 ⁸ 35,970 | .... | .... | ¹ 4,107 ³ 3,600 ⁴ 10,540 | .... | .... | .... | ¹ 23.7 ³ 34.7 ⁴ 148.3 | 1,250 | 596 | 16,450 |
| DEA Mineraloel AG— Heide/Grasbrook | 80,000 | 37,000 | .... | ² 14,000 | .... | ² 18,000 | ¹ 15,000 | ¹ 25,000 | .... | ² 7,000 | ¹ 5,800 | .... | .... | ¹ 280 | .... | .... | 55 | 4,300 |
| Wesseling | 140,000 | 50,000 | .... | ² 26,000 | .... | ² 21,000 | ¹ 37,000 | ¹ 21,000 ² 6,100 | .... | ¹ 2,000 | ¹ 10,000 | .... | .... | ¹ 1,500 | .... | .... | 240 | .... |
| Deutsche BP AG Erdol Raffinerie GMBH—Lingen* | 87,000 | 38,000 | ² 25,000 | .... | .... | ¹ 6,300 ³ 2,400 | ^c 26,500 | ¹ 31,500 ⁴ 8,000 ⁵ 31,200 ⁵ 31,200 | .... | .... | ¹ 7,100 ² 2,200 ³ 6,400 | ³ 9,300 | .... | .... | ¹ 36.0 ⁴ 41.0 ⁶ 6.0 | 545 | 100 | .... |
| Deutsche Shell AG—Godorf | 162,000 | 73,000 | .... | ¹ 18,000 ² 7,000 | .... | ¹ 17,000 ³ 21,000 | ¹ 36,000 | ² 52,000 ³ 34,000 ³ 2,000 ¹² 000 | .... | .... | ¹ 17,000 ² 3,000 | ³ 8,000 | .... | .... | .... | .... | .... | 12,000 |
| Harburg | 97,000 | 44,000 | .... | ² 14,000 | ¹ 16,000 | ³ 17,000 | .... | ² 29,000 ³ 2,000 ¹⁶ 000 | .... | .... | .... | ³ 2,800 | 6,000 | .... | .... | .... | .... | 5,900 |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | | |
|---|-----------------------|------------------------|---------------------|--|-----------------------|--|----------------------------|--|---------------------------|-----------|--------------------|---------------------|--------|--------------------|--|---------------|-----------------|---------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
| ExxonMobil Refining Supply Co.— Ingolstadt | 106,000 | 39,000 | .... | .... | ¹ 28,000 | ¹ 20,000 | .... | ¹ 35,000 ⁴ 18,000 ⁵ 42,000 | .... | .... | .... | ³ 7,000 | .... | .... | .... | .... | 66 | 3,800 |
| HR Chemisch-Pharmazeutische Spezialitaeten GMBH— Salzbergen ..... | .... | 6,800 | .... | .... | .... | .... | .... | ¹ 13,700 ¹³ 1,100 | .... | .... | .... | .... | 3,800 | .... | .... | .... | .... | .... |
| HR Oelwerke Schindler GMBH— Hamburg ⁹ ..... | .... | 15,000 | .... | .... | .... | .... | ^c 800 | ¹ 1,620 | .... | .... | .... | .... | 4,800 | .... | ^a 1440.0 ⁴ 440.0 | .... | .... | .... |
| Holborn Europa Raffinerie GMBH— Harburg | 78,000 | 15,000 | .... | .... | ¹ 18,750 | ¹ 14,700 | .... | ¹ 31,700 ³ 3,500 38,400 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Mineraloelraffinerie Oberrhein GMBH—Karlsruhe* | 302,000 | 130,000 | 26,000 | .... | ¹ 87,000 | ¹ 31,000 ² 22,000 | .... | ¹ 53,000 ² 93,000 ⁴ 3,000 ⁵ 61,000 ⁷ 67,000 ⁸ 74,000 ⁸ 65,000 | ² 12,000 | .... | .... | ³ 16,000 | .... | ¹ 4,000 | .... | 1,200 | 360 | 14,000 |
| OMV AG—Burghausen | 72,000 | .... | ² 27,500 | .... | .... | .... | .... | ⁸ 65,000 | .... | .... | ² 2,300 | .... | .... | .... | ⁷ 90.0 | 690 | 34 | .... |
| PCK Raffinerie GMBH— Schwedt* | 220,000 | 140,000 | .... | ¹ 20,000 ² 27,000 | ¹ 57,500 | ¹ 16,000 ³ 18,000 | ^m 118,000 | ¹ 35,000 ² 15,000 ⁴ 20,000 ⁵ 80,000 ⁸ 60,000 | ² 8,200 | .... | ¹ 5,000 | ³ 15,000 | .... | ² 2,250 | ¹ 40.0 | .... | 480 | 8,000 |
| Total Raffinerie Mitteldeutschland GMBH—Leuna, Spergau | 225,000 | 98,000 | .... | ² 26,400 | ¹ 60,000 | ³ 24,000 | .... | ¹ 44,000 ⁵ 96,000 ⁸ 71,000 | ¹ 9,400 | .... | .... | .... | .... | .... | ^a 138.0 ⁴ 48.0 ⁷ 90.0 | .... | 410 | .... |
| Karlsruhe | | | | | | | | | | | | | | | | | | |
| Wilhelmshavener Raffinerie Gesellschaft GMBH— Wilhelmshaven | 220,000 | .... | .... | .... | .... | ¹ 42,500 | ³ 12,000 | ¹ 76,000 ⁵ 82,000 | .... | .... | .... | ³ 9,000 | .... | .... | .... | .... | 50 | .... |
| Total | 2,323,200 | 936,700 | 98,370 | 233,840 | 358,470 | 377,900 | 192,740 | 1,906,620 | 29,600 | 9,000 | 77,047 | 81,300 | 14,600 | 9,200 | 1,659.7 | 3,685 | 2,585 | 76,450 |

GHANA

| | | | | | | | | | | | | | | | | | | |
|---|---------------|----------|----------|----------|---------------|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|------------|----------|----------|----------|
| Tema Oil Refinery Co. Ltd.— Tema | 45,000 | .... | .... | .... | 14,000 | ¹ 65,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total | 45,000 | 0 | 0 | 0 | 14,000 | 65,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 |

GREECE

| | | | | | | | | | | | | | | | | | | |
|--|----------------|----------------|----------|---------------------|---------------------|---------------------|----------------------|---|--------------------|--------------------|--------------------|--------------------|--------------|--|-------------------|----------|------------|---------------|
| Hellenic Petroleum SA— Aspropyrgos | 134,900 | 64,600 | .... | ² 20,700 | ¹ 38,700 | ³ 19,260 | ^m 438,700 | ² 32,400 ⁴ 31,500 | .... | .... | .... | ³ 7,000 | .... | ¹ 1,300 ³ 1,500 | ¹ 9.6 | .... | 240 | 7,500 |
| Elefsis ^D | 100,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | ^a 74.2 | .... | 26 | .... |
| Thessaloniki* | 66,500 | 12,000 | .... | .... | .... | ¹ 10,000 | .... | ² 16,500 ⁴ 10,000 ⁵ 20,000 | .... | .... | .... | ³ 8,300 | .... | .... | ^a 15.2 | .... | 40 | 4,150 |
| Motor Oil (Hellas) Corinth Refineries SA— Aghii Theodori | 100,000 | 61,000 | .... | ² 26,000 | ¹ 30,500 | ³ 13,750 | .... | ¹ 20,200 ⁵ 30,200 ¹¹ 4,500 ¹² 10,700 ¹³ 19,200 | ² 2,400 | ² 1,500 | ³ 9,500 | ³ 5,350 | 3,500 | ¹ 1,100 | ¹ 2.7 | .... | 85 | 4,550 |
| Total | 401,400 | 137,600 | 0 | 46,700 | 69,200 | 43,010 | 38,700 | 195,200 | 2,400 | 1,500 | 9,500 | 20,650 | 3,500 | 3,900 | 21.7 | 0 | 391 | 16,200 |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
|---|-----------------------|------------------------|---------------------|-----------------------|-----------------------|--|----------------------------|--|---------------------------|-----------|---------------------|--------------------|--------|--------------------|--|-------|---------------------|---------------|-----------------|---------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | | | | | | |
| HUNGARY | | | | | | | | | | | | | | | | | | | | |
| MOL Hungarian Oil Gas Co.— Szazhalombatta | 161,000 | 77,500 | ² 16,900 | ² 14,000 | ¹ 24,000 | ¹ 16,000 ³ 13,600 | .... | ¹ 30,000 ² 700 ⁴ 9,000 ⁵ 41,000 ⁸ 35,000 ¹¹ 3,800 ¹³ 1,200 ⁵ 14,000 | ² 3,300 | .... | ¹ 12,000 | ³ 3,500 | 6,100 | ¹ 1,200 | ¹ 25.4 ⁴ 50.8 | 600 | 226 | 6,300 | | |
| Tiszaújvaros ..... | .... | .... | .... | .... | .... | .... | .... | ⁵ 14,000 | .... | .... | .... | .... | .... | ¹ 700 | .... | .... | 21 | .... |  |  |
| Total | 161,000 | 77,500 | 16,900 | 14,000 | 24,000 | 29,600 | 0 | 134,700 | 3,300 | 0 | 12,000 | 3,500 | 6,100 | 1,900 | 76.2 | 600 | 247 | 6,300 | | |
| INDIA | | | | | | | | | | | | | | | | | | | | |
| Bharat Petroleum Co. Ltd.— Mahul, Bombay | 120,000 | 39,000 | .... | .... | ¹ 28,755 | ¹ 5,503 | .... | .... | .... | .... | ¹ 2,175 | .... | .... | .... | .... | .... | .... | 10,000 | | |
| Numaligarh, Assam..... | 60,000 | .... | 8,400 | .... | .... | 2,000 | 22,000 | 29,000 | .... | .... | .... | .... | .... | .... | .... | 71 | 4 | .... |  |  |
| Bongaigaon Refinery Petrochemicals Ltd.— Bongaigaon Assam | 27,110 | .... | ² 9,675 | .... | .... | ¹ 1,833 | .... | ¹ 1,833 | .... | .... | ¹ 694 | .... | .... | .... | .... | 203 | .... | .... |  |  |
| Chennai Refinery—Madras..... | 130,660 | 66,866 | .... | .... | ¹ 11,250 | ¹ 2,138 | .... | ¹ 2,138 ⁴ 22,612 ⁷ 5,110 | .... | .... | .... | .... | 5,110 | .... | ¹ 10.0 | .... | 17 | 3,877 | | |
| Hindustan Petroleum Corp. Ltd.— Mahul, Mumbai | 131,085 | 63,420 | .... | .... | ¹ 14,000 | .... | .... | ⁵ 34,275 | .... | .... | .... | .... | 7,490 | .... | ^a 217.5 | .... | 138 | .... |  |  |
| Vishakapatnam | 164,250 | .... | .... | ² 20,580 | ¹ 32,900 | .... | .... | ⁵ 47,104 | .... | .... | ¹ 3,123 | .... | .... | ¹ 1,396 | ¹ 21.2 | .... | 162 | 4,091 | | |
| Indian Oil Co. Ltd.— Barauni, Bihar..... | 65,800 | 23,700 | ² 20,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 540 | .... | .... |  |  |
| Digboi, Assam..... | 11,700 | .... | ² 850 | .... | .... | .... | .... | .... | .... | .... | .... | .... | 30 | .... | .... | 26 | .... | 400 | | |
| Gawahati, Assam..... | 19,920 | .... | ² 6,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 145 | .... | .... |  |  |
| Haldia, West Bengal | 61,000 | 27,000 | .... | ² 9,600 | .... | ¹ 5,300 | .... | ¹ 5,300 13,400 ¹¹ 3,100 | .... | .... | .... | .... | 3,100 | .... | .... | .... | .... | 7,500 | | |
| Koyali, Gujarat..... | 185,100 | 98,000 | .... | ² 19,500 | ¹ 20,000 | ¹ 8,300 | .... | ¹ 8,300 | .... | .... | ¹ 1,450 | .... | .... | .... | ² 42.7 | .... | .... | 4,400 | | |
| Mathura, Uttar Pradesh | 156,000 | 47,000 | .... | ² 18,000 | ¹ 20,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 7,500 | | |
| Panipat..... | 120,000 | 62,000 | .... | ² 6,500 | ¹ 13,400 | ³ 12,000 | 32,600 | .... | .... | .... | .... | .... | .... | .... | .... | .... | 84 | .... |  |  |
| Kochi Refineries Ltd.— Ambalamugal | 152,000 | 80,000 | .... | ² 19,000 | ¹ 27,000 | ¹ 4,599 | .... | ² 5,913 ⁴ 8,541 ⁵ 41,391 | .... | .... | ¹ 2,300 | .... | .... | .... | ¹ 21.0 ⁴ 21.0 | .... | 120 | .... |  |  |
| Madras Refineries Ltd.— Cauvery Basin..... | 10,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |
| Mangalore Refinery Petrochemicals Ltd.— Mangalore..... | 180,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |
| Reliance Petroleum Ltd.— Jamnagar | 660,000 | .... | 124,700 | .... | ¹ 130,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 5,495 | .... | .... |  |  |
| Total | 2,254,625 | 506,986 | 169,625 | 93,180 | 297,305 | 41,673 | 54,600 | 228,017 | 0 | 0 | 9,742 | 0 | 15,730 | 1,396 | 133.4 | 6,480 | 525 | 37,768 | | |
| INDONESIA | | | | | | | | | | | | | | | | | | | | |
| Pertamina—Balikpapan, Kalimantan | 240,920 | 89,110 | .... | .... | .... | ³ 18,720 | ¹ 49,500 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |
| Balongan | 125,000 | .... | .... | .... | ¹ 83,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |
| Cepu..... | 3,420 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |
| Cilacap, Central Java..... | 348,000 | 37,600 | .... | ² 50,040 | .... | ³ 30,690 | .... | ¹¹ 12,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |
| Dumai, Central Sumatra | 114,000 | 87,970 | ² 32,580 | .... | .... | ³ 12,870 | ¹ 50,220 | 11,430 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |
| Musi, South Sumatra..... | 109,155 | 51,300 | .... | ¹ 8,820 | ¹ 18,450 | ³ 30,690 | .... | .... | ¹ 16,200 | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |
| Pangkalan Brandan, North Sumatra..... | 4,750 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |
| Sungai Pakning, Central Sumatra | 47,500 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |
| Total | 992,745 | 265,980 | 32,580 | 58,860 | 101,450 | 92,970 | 99,720 | 23,430 | 16,200 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 | | |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
|---|-----------------------|------------------------|---------------------|-----------------------|-----------------------|------------------------|----------------------------|----------------------------|---------------------------|--------------------|--------------------|---------------------|--------|--------------------|-------------------|-------|---------------------|---------------|-----------------|---------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | | | | | | |
| IRAN | | | | | | | | | | | | | | | | | | | | |
| National Iranian Oil Co.— | | | | | | | | | | | | | | | | | | | | |
| Abadan | 400,000 | .... | .... | ² 80,000 | ¹ 30,000 | ¹ 26,000 | .... | ¹ 26,000 | .... | .... | .... | .... | 1,500 | .... | .... | .... | .... | 1,000 | | |
| Arak..... | 150,000 | 71,000 | .... | ¹ 27,300 | .... | ² 21,600 | ^c 124,500 | ¹ 21,600 | .... | .... | .... | .... | .... | .... | ² 50.0 | .... | 60 | 5,500 | | |
| Bandar Abbas | 232,000 | 126,000 | .... | ² 31,000 | .... | ³ 36,000 | ^c 128,000 | ¹ 36,000 | .... | .... | .... | .... | .... | .... | ¹ 50.0 | .... | 130 | 5,000 | | |
| | | | | | | | | ⁴ 25,000 | | | | | | | | | | | | |
| Isfahan | 265,000 | 119,000 | .... | ² 38,000 | .... | ¹ 29,600 | ^c 130,000 | ¹ 29,600 | .... | .... | .... | .... | 26,640 | .... | ¹ 70.0 | .... | 70 | 5,500 | | |
| Kermanshah..... | 30,000 | .... | .... | .... | .... | ¹ 2,775 | .... | ¹ 2,775 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |
| | | | | | | | | ⁴ 3,100 | | | | | | | | | | | | |
| Lavan Island..... | 20,000 | .... | .... | .... | .... | ¹ 7,000 | .... | ¹ 7,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |
| Shiraz..... | 40,000 | 18,400 | .... | ² 9,000 | .... | ¹ 6,200 | ^c 19,280 | ¹ 6,200 | .... | .... | .... | .... | .... | .... | ¹ 17.0 | .... | 30 | 1,500 | | |
| | | | | | | | | ⁴ 3,800 | | | | | | | | | | | | |
| Tabriz | 112,000 | 50,000 | .... | ¹ 16,500 | .... | ¹ 11,120 | ^c 18,000 | ¹ 11,100 | .... | .... | .... | .... | .... | .... | ¹ 34.0 | .... | 80 | 5,000 | | |
| | | | | | | | | ⁴ 13,200 | | | | | | | | | | | | |
| Tehran..... | 225,000 | 120,000 | .... | ² 35,000 | .... | ¹ 27,260 | ^c 130,000 | ¹ 27,260 | .... | .... | .... | .... | 3,760 | .... | ¹ 65.0 | .... | 100 | 20,000 | | |
| Total | 1,474,000 | 504,400 | 0 | 236,800 | 30,000 | 167,555 | 139,780 | 212,635 | 0 | 0 | 0 | 0 | 31,900 | 0 | 286.0 | 0 | 470 | 43,500 | | |
| IRAQ | | | | | | | | | | | | | | | | | | | | |
| Iraqi Co. for Oil Operations— | | | | | | | | | | | | | | | | | | | | |
| Kirkuk..... | 2,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |
| Midland Refineries Co.— | | | | | | | | | | | | | | | | | | | | |
| Daura, Bagdad ^P | 110,000 | 20,000 | .... | .... | .... | ¹ 15,000 | ¹ 18,000 | 31,000 | .... | .... | .... | .... | 2,420 | .... | .... | .... | .... | 838 | | |
| | | | | | | ² 5,000 | ² 5,000 | | | | | | | | | | | | | |
| | | | | | | | ⁴ 13,241 | | | | | | | | | | | | | |
| Oil Refineries Administration— | | | | | | | | | | | | | | | | | | | | |
| Baiji | 310,000 | 105,000 | .... | .... | .... | 46,000 | 38,000 | 182,000 | .... | .... | .... | .... | 5,000 | .... | 64.0 | .... | .... | 26,000 | | |
| Basra..... | 150,000 | 20,000 | .... | .... | .... | 16,000 | .... | 70,000 | .... | .... | .... | .... | 2,000 | .... | .... | .... | .... | 7,000 | | |
| K3-Haditha..... | 7,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |
| Khanaqin | 12,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |
| Muthlia | 4,500 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |
| Qaiyarah Mosul | 2,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 4,900 | | |
| Total | 597,500 | 145,000 | 0 | 0 | 0 | 82,000 | 74,241 | 283,000 | 0 | 0 | 0 | 0 | 9,420 | 0 | 64.0 | 0 | 0 | 38,738 | | |
| IRELAND | | | | | | | | | | | | | | | | | | | | |
| ConocoPhillips—Whitegate | 71,000 | .... | .... | .... | .... | ¹ 10,800 | .... | ¹ 10,800 | .... | .... | .... | ³ 13,320 | .... | .... | .... | .... | 4 | .... |  |  |
| | | | | | | | | ² 6,660 | | | | | | | | | | | | |
| | | | | | | | | ⁷ 12,600 | | | | | | | | | | | | |
| Total | 71,000 | 0 | 0 | 0 | 0 | 10,800 | 0 | 30,060 | 0 | 0 | 0 | 13,320 | 0 | 0 | 0.0 | 0 | 4 | 0 | | |
| ISRAEL | | | | | | | | | | | | | | | | | | | | |
| Oil Refineries Ltd.—Ashdod | 90,000 | 45,000 | .... | ² 25,000 | ¹ 27,500 | ¹ 11,500 | .... | ² 20,000 | .... | .... | .... | .... | .... | ¹ 750 | .... | .... | .... | .... |  |  |
| | | | | | | | | 30,000 | | | | | | | | | | | | |
| Haifa..... | 130,000 | 73,000 | .... | ² 41,000 | ¹ 22,000 | ¹ 15,000 | .... | ² 16,000 | .... | ² 2,200 | .... | .... | .... | .... | .... | .... | .... | 2,700 | | |
| | | | | | | | | 30,000 | | | | | | | | | | | | |
| Total | 220,000 | 118,000 | 0 | 66,000 | 49,500 | 26,500 | 0 | 96,000 | 0 | 2,200 | 0 | 0 | 0 | 750 | 0.0 | 0 | 0 | 2,700 | | |
| ITALY | | | | | | | | | | | | | | | | | | | | |
| AgipPetroli SPA—Gela, Ragusa | 105,000 | 52,500 | ² 45,000 | .... | ¹ 35,000 | ² 13,850 | .... | ¹ 16,500 | ² 10,000 | .... | ¹ 6,700 | ¹ 8,050 | .... | ¹ 1,100 | ³ 17.0 | 2,000 | .... | .... |  |  |
| | | | | | | | | 42,500 | | | ² 700 |  | .... | ³ 1,200 | ⁵ 8.0 | | | | | |
| | | | | | | | | 35,000 | | | | | | | | | | | | |
| Livorno | 84,000 | 36,000 | .... | .... | .... | ³ 14,000 | .... | ² 22,000 | .... | .... | .... | ³ 6,000 | 10,000 | .... | .... | .... | .... | 3,500 | | |
| | | | | | | | | 31,700 | | | | | | | | | | | | |
| Porto Marghera..... | 80,000 | 38,000 | .... | ¹ 13,500 | .... | ³ 15,000 | .... | ² 16,000 | .... | .... | .... | ³ 6,000 | .... | .... | .... | .... | .... | 3,500 | | |
| | | | | ² 27,000 | | | | 27,000 | | | | | | | | | | | | |
| Sannazzaro, Pavia..... | 200,000 | 84,500 | .... | ² 32,000 | ¹ 34,000 | ² 12,000 | ¹ 30,000 | ¹ 12,000 | ² 3,200 | .... | .... | ² 12,000 | .... | ¹ 920 | ² 35.0 | .... | .... | 2,500 | | |
| | | | | | | ³ 16,700 | | ² 27,000 | | | | | | | | | | | | |
| | | | | | | | | 41,000 | | | | | | | | | | | | |
| Taranto..... | 84,000 | 60,590 | .... | ¹ 27,000 | .... | ² 17,000 | ¹ 15,500 | ² 24,000 | .... | .... | .... | ³ 6,000 | .... | .... | ² 39.5 | .... | .... | 2,500 | | |
| | | | | ² 37,250 | | | | 43,000 | | | | | | | | | | | | |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | | |
|--|-----------------------|---------------------|--------|--|---------------------|---|---|--|---------------------------|--------------------|--------------------|---------------------|--------|--------------------|--|------------|--------------|---------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
| Api Raffineria di Ancona SPA—Falconara, Marittima* | 82,900 | 37,500 | .... | ¹ 36,500 ² 24,500 | .... | ¹ 14,000 | .... | ¹ 25,000 ⁵ 44,100 | .... | .... | .... | ³ 15,000 | .... | .... | ¹ 7.2 | .... | 120 | .... |
| Arcola Petrolifera SPA—La Spezia | 33,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| ERG Raffinerie Medditteranee North—Priolo, Sicily..... | 225,000 | 48,000 | .... | ² 24,000 | ¹ 33,000 | ¹ 9,000 | .... | ¹ 9,000 ⁵ 21,000 | 4,000 | .... | ⁴ 6,000 | ... | .... | ¹ 1,000 | .... | 46 | .... | .... |
| Melilli, Sicily..... | 238,000 | 106,000 | .... | ¹ 32,000 ² 43,000 | .... | ² 36,000 | ^{m1} 62,000 | ¹ 63,000 ⁴ 34,000 ⁵ 70,000 | .... | .... | .... | ³ 9,000 | .... | .... | ² 16.0 | .... | 360 | 3,000 |
| ExxonMobil Refining Supply Co.—Augusta, Siracusa..... | 198,000 | 93,000 | .... | .... | ¹ 46,000 | ¹ 22,000 | .... | ¹ 24,000 ⁴ 20,000 ⁵ 31,000 ⁸ 21,000 ¹¹ 24,000 | ² 8,700 | .... | .... | ¹ 5,000 | 17,800 | .... | .... | .... | 200 | .... |
| S. Martino Di Trecate | 174,000 | 28,000 | .... | .... | ¹ 29,000 | ¹ 18,000 ² 8,000 | .... | ¹ 67,000 ⁴ 18,000 ⁵ 40,000 | .... | ¹ 1,600 | .... | ³ 12,000 | .... | .... | .... | .... | 95 | .... |
| Iplom SPA—Busalla..... | 39,500 | 19,500 | .... | .... | .... | .... | .... | ⁵ 12,500 ⁹ 9,500 | .... | .... | .... | .... | .... | .... | ^{a4} 6.8 | .... | 37 | .... |
| Italiana Energia E Servizi SPA—Mantova | 56,600 | 20,100 | .... | ¹ 9,400 ² 24,200 | .... | ¹ 8,200 | .... | ² 14,800 ¹ 9,000 ⁷ 8,000 | .... | .... | .... | ³ 3,300 | .... | .... | .... | .... | 60 | .... |
| Raffineria di Milazzo SPA—Milazzo, Messina | 241,300 | 68,700 | .... | .... | ¹ 46,100 | ¹ 13,500 | ^{c1} 33,800 ² 25,400 | ² 21,000 ⁴ 16,700 ⁵ 45,400 | ¹ 4,100 | .... | .... | .... | .... | ¹ 1,500 | ¹ 33.7 ² 42.5 ⁴ 9.3 | .... | 412 | .... |
| Raffineria di Roma SPA—Rome | 89,615 | 11,153 | .... | ² 31,282 | .... | ¹ 14,548 | .... | ¹ 20,658 ⁵ 29,014 | .... | .... | .... | ³ 17,021 | .... | .... | .... | .... | 41 | .... |
| Saras SPA—Sarroch..... | 300,000 | 108,000 | .... | ² 41,000 | ¹ 85,000 | ³ 27,000 | ^{m1} 100,000 | ¹ 27,000 ⁴ 26,000 ⁵ 50,000 | ² 7,200 | .... | .... | .... | .... | ³ 5,800 | ^{a3} 32.2 ⁴ 25.8 | .... | 440 | .... |
| Tamoil Raffinazione SPA —Cremona..... | 90,000 | .... | .... | ² 33,000 | .... | ¹ 8,600 ³ 15,000 | ⁴ 6,000 | ¹ 31,600 ³ 1,800 ⁴ 26,900 | .... | .... | .... | ³ 10,500 | .... | .... | ⁴ 5.5 | .... | .... | .... |
| Total | 2,320,915 | 811,543 | 45,000 | 435,632 | 308,100 | 282,398 | 272,700 | 1,208,672 | 37,200 | 1,600 | 13,400 | 109,871 | 27,800 | 11,520 | 278.5 | 2,046 | 1,765 | 15,000 |
| IVORY COAST | | | | | | | | | | | | | | | | | | |
| Societe Ivoirienne de Raffinage—Abidjan | 65,200 | 26,490 | .... | .... | .... | ¹ 12,827 | ^{c1} 14,934 | ¹ 14,184 ⁴ 19,409 | .... | .... | .... | .... | .... | .... | ^{1a} 49.0 ⁴ 30.0 ⁶ 10.0 | .... | .... | .... |
| Total | 65,200 | 26,490 | 0 | 0 | 0 | 12,827 | 14,934 | 33,593 | 0 | 0 | 0 | 0 | 0 | 0 | 89.0 | 0 | 0 | 0 |
| JAMAICA | | | | | | | | | | | | | | | | | | |
| Petrojam Ltd.—Kingston | 36,000 | 1,800 | .... | .... | .... | ¹ 3,700 | .... | ¹ 6,800 ⁴ 7,500 ⁵ 9,500 | .... | .... | .... | .... | .... | .... | .... | .... | .... | 850 |
| Total | 36,000 | 1,800 | 0 | 0 | 0 | 3,700 | 0 | 23,800 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 850 |
| JAPAN | | | | | | | | | | | | | | | | | | |
| Cosmo Oil Co. Ltd.—Chiba* | 228,000 | 57,000 | .... | .... | ¹ 33,300 | ¹ 32,850 | .... | ¹ 34,200 ⁴ 56,700 ⁵ 63,900 ⁹ 31,500 ¹⁰ 64,800 | .... | .... | .... | .... | .... | .... | ^{a1} 88.0 | .... | 600 | .... |
| Sakai* | 76,000 | 36,100 | .... | .... | ¹ 20,700 | ¹ 7,200 | .... | ¹ 9,900 ⁴ 26,100 | ¹ 7,200 | .... | .... | .... | .... | ¹ 1,278 | ^{a1} 11.0 | .... | 140 | .... |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | Sulfur (t/d) | Asphalt |
|--|-----------------------|------------------------|---------------------|-----------------------|-----------------------|--|----------------------------|--|---------------------------|-----------|---|---------------|-------|------------|---|---------------|-----------------|---------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | Hydrogen (MMcfd) | Coke (t/d) | | |
| Sakaide* | 114,000 | 39,425 | .... | .... | ¹ 17,100 | ¹ 12,600 | .... | ⁵ 22,500 ⁹ 18,000 ¹ 12,600 ⁴ 21,600 ⁵ 36,000 ⁹ 15,480 ¹⁰ 27,000 | .... | .... | .... | .... | .... | .... | ^{a1} 34.0 | .... | 265 | .... |
| Yokkaichi* | 147,250 | 70,300 | .... | .... | ¹ 22,500 | ¹⁵ 4,400 ³ 12,150 | .... | ¹ 17,550 ⁴ 31,500 ⁵ 27,000 ⁹ 37,350 | .... | .... | .... | .... | .... | .... | ^{a1} 12.0 | .... | 200 | .... |
| Fuji Oil Co. Ltd.—Sodegaura | 192,000 | 55,000 | ³ 24,000 | .... | ¹ 18,000 | ³ 28,000 | .... | ¹ 43,000 ⁴ 43,500 ⁵ 35,000 ⁹ 47,000 | ¹ 2,400 | .... | ¹ 21,000 ² 2,100 | .... | .... | .... | .... | 1,223 | 360 | .... |
| Idemitsu Kosan Co. Ltd.— Chita, Aichi | 152,000 | 15,200 | .... | .... | ¹ 47,500 | ³ 18,000 | .... | ¹ 23,400 ⁴ 44,100 ⁵ 30,600 ¹⁰ 54,000 | ¹⁵ 3,200 | .... | .... | .... | .... | .... | ² 60.4 | .... | 360 | .... |
| Ichihara, Chiba | 209,000 | 62,700 | .... | .... | ¹ 42,750 | ¹ 15,300 | ³ 10,440 | ¹ 22,500 ⁴ 39,600 ⁵ 54,000 ⁸ 35,100 ¹⁰ 36,000 | .... | .... | .... | .... | 9,450 | .... | ^{a2} 46.3 | .... | 540 | .... |
| Shunan, Yamaguchi | 114,000 | 52,250 | .... | .... | ¹ 24,700 | ³ 18,000 | .... | ¹ 18,000 ⁴ 31,500 ⁵ 18,000 ⁸ 40,500 | .... | .... | .... | .... | .... | .... | ² 17.1 | .... | 176 | .... |
| Tomakomai, Hokkaido | 133,000 | 22,800 | .... | .... | ¹ 28,500 | ¹ 16,200 | ^{c1} 14,850 | ¹ 24,300 ⁴ 29,970 ⁵ 22,500 ¹⁰ 34,200 | .... | .... | .... | .... | .... | .... | ^{a2} 53.7 | .... | 356 | .... |
| Japan Energy Co.— Mizushima, Okayama* | 190,190 | 103,550 | ² 23,400 | .... | ¹ 43,200 | ¹ 18,000 ² 21,600 | ^{c2} 27,900 | ¹ 36,000 ⁴ 42,210 ⁶ 55,800 ⁸ 63,000 ¹² 3,150 ¹³ 3,150 | .... | .... | ¹ 11,700 ² 2,000 | .... | 5,513 | .... | ¹ 27.0 ² 55.9 ⁶ 9.7 | .... | 610 | 9,000 |
| Kashima Oil Co. Ltd.— Kashima, Ibaragi | 180,500 | 39,900 | .... | .... | ¹ 29,700 | ³ 19,800 | .... | ¹ 20,700 ⁴ 41,400 ⁵ 39,600 ⁸ 22,500 ¹⁰ 27,000 | .... | .... | ¹⁵ 1,230 | .... | .... | .... | ^{a1} 30.4 | .... | 216 | .... |
| Kyokuto Petroleum Industries Ltd.—Ichihara, Chiba | 175,000 | 83,000 | .... | .... | ¹ 34,000 | ¹ 27,000 | ^{m1} 38,500 | ¹ 28,000 ⁴ 33,500 ⁵ 47,000 | .... | .... | ¹⁶ 5,000 | .... | .... | .... | ^{a2} 30.0 ⁴ 20.0 ⁶ 8.5 | .... | 220 | .... |
| Kyushu Oil Co. Ltd.—Oita | 130,000 | 66,000 | .... | .... | ¹ 16,500 | ¹ 8,000 | .... | ¹ 9,000 ² 7,000 ³ 3,000 | .... | .... | .... | .... | .... | .... | ⁷ 14.9 | .... | .... | .... |
| Nansei Sekiyu KK—Okinawa | 90,000 | .... | .... | .... | .... | ¹ 12,000 | .... | ¹ 21,500 ⁴ 17,000 | .... | .... | .... | .... | .... | .... | ⁶ 4.5 | .... | .... | .... |
| Nihonkai Oil Co. Ltd.—Toyama* ... | 57,000 | 10,450 | .... | .... | .... | ¹⁵ 4,400 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 40 | .... |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
|---|-----------------------|------------------------|---------------------|-----------------------|-----------------------|--|----------------------------|--|---------------------------|--------------------|--|--------------------|-------|--------------------|--|------|---------------------|---------------|-----------------|---------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | | | | | | |
| Nippon Oil Co. Ltd.—Mizushima..... | 250,000 | 77,000 | .... | .... | ¹ 46,000 | ¹ 20,000 ³ 20,000 | ^{c1} 13,000 | ¹ 45,000 ² 45,000 ⁴ 4,300 ⁵ 40,000 ⁹ 40,000 ¹⁰ 37,000 ¹¹ 45,000 | ¹ 4,400 | ¹ 2,100 | ¹ 14,000 | .... | 3,600 | .... | ² 53.9 ⁶ 4.0 | .... | 540 | 6,000 | | |
| Muroran..... | 180,000 | 65,000 | .... | .... | ¹ 30,000 | ³ 36,000 | ^{c1} 27,000 | ¹ 4,100 ⁴ 59,000 ⁵ 40,000 ⁹ 22,000 ¹⁰ 45,000 | .... | .... | ¹ 74,000 | .... | .... | .... | ^{a2} 58.6 | .... | 350 | 36,000 | | |
| Negishi | 340,000 | 130,000 | .... | .... | ¹ 83,000 | ¹ 20,000 ³ 30,000 | .... | ¹ 16,000 ⁴ 69,500 ⁵ 75,000 ⁹ 62,500 ¹⁰ 81,000 ¹¹ 35,000 | ¹ 5,700 | .... | ¹ 7,600 | .... | 2,600 | ¹ 1,800 | ^{a1} 22.9 ^{a2} 28.2 | .... | 660 | 9,000 | | |
| Sendai..... | 145,000 | 60,000 | .... | .... | ¹ 43,000 | ¹ 18,000 | .... | ¹ 18,000 ⁴ 18,000 ⁹ 29,000 ¹⁰ 35,000 | ¹ 4,600 | .... | ¹ 1,700 | .... | .... | .... | ² 62.2 | .... | 510 | 4,600 | | |
| Takaishi, Osaka | 115,000 | 60,000 | .... | .... | ¹ 27,000 | ¹ 14,000 | .... | ¹ 52,000 ⁴ 22,000 ⁵ 25,000 ⁹ 21,000 | ¹ 3,600 | .... | ¹ 2,050 | .... | .... | .... | 12.0 | .... | 280 | .... |  |  |
| Marifu, Yamguchi | 127,000 | 64,000 | ² 22,000 | .... | ¹ 28,000 | ³ 24,000 | .... | ¹ 21,000 ⁴ 32,000 ⁵ 22,000 ⁹ 22,000 | .... | .... | ¹ 5,800 | .... | .... | .... | ² 10.2 | 690 | 265 | 1,500 | | |
| Okinawa Sekiyu Seisei— Yonashiro, Okinawa | 100,000 | .... | .... | .... | .... | ³ 15,000 | .... | ¹ 48,000 23,000 20,000 ¹⁰ 38,000 | .... | .... | .... | .... | .... | .... | ² 22.0 | .... | 300 | .... |  |  |
| Seibu Oil Co. Ltd.—Yamaguchi | 110,000 | 40,000 | .... | .... | ¹ 22,000 | ¹ 17,000 | .... | ¹ 26,000 36,000 30,000 ¹⁰ 50,000 | .... | ² 3,000 | .... | ² 5,700 | .... | .... | ² 42.4 ⁶ 17.7 | .... | 340 | 30,000 | | |
| Showa Yokkaichi Sekiyu Co. Ltd.— Yokkaichi..... | 222,000 | 96,300 | .... | .... | ¹ 22,600 | ¹ 40,600 | .... | ² 61,500 39,200 35,600 36,900 | .... | .... | ¹ 5,500 | ³ 9,200 | 5,500 | .... | ¹ 28.3 | .... | .... | 6,300 | | |
| Taiyo Oil Co. Ltd.— Kikuma, Ehime..... | 120,000 | 27,000 | .... | .... | .... | ³ 33,000 | ^{c1} 19,000 | ¹ 37,000 ⁴ 18,000 ⁵ 30,000 | .... | .... | ¹ 24,300 ² 10,200 | .... | .... | .... | ² 18.0 ⁴ 108.0 | .... | .... | .... |  |  |
| Toa Oil Co. Ltd.—Mizue Factory, Kawasaki | 65,000 | 57,000 | ¹ 24,000 | .... | ¹ 33,000 | ¹ 8,000 | .... | ¹ 17,000 ² 9,500 ⁴ 13,000 ⁵ 20,000 ⁷ 750 ⁸ 46,000 ¹³ 10,700 | .... | ¹ 2,040 | ² 10,200 | .... | .... | .... | ¹ 32.8 ⁶ 13.0 | .... | 380 | .... |  |  |
| Ohgimachi Factory, Kawasaki ... | 120,000 | 30,000 | .... | .... | .... | ³ 21,500 | .... | ¹ 28,000 ⁴ 21,000 ⁵ 27,000 ⁹ 16,000 | .... | .... | ¹ 15,000 | ³ 6,000 | .... | .... | .... | .... | 100 | 17,000 | | |
| Toho Oil Co. Ltd.—Owase..... | 35,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |
| Tonen/General Sekiyu Seisei KK—Kawasaki..... | 296,000 | 94,500 | .... | .... | ¹ 87,500 | ¹ 18,500 | ^{c2} 22,500 | ¹ 63,500 | ¹ 8,000 | .... | .... | .... | .... | .... | ² 46.0 | .... | 525 | .... |  |  |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | Sulfur (t/d) | Asphalt |
|---|-----------------------|------------------------|---------------------|-----------------------|-----------------------|------------------------|--|---|---------------------------|--------------|---------------------|---------------|---------------|--------------------|---|---------------|-----------------|----------------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | Hydrogen (MMcfd) | Coke (t/d) | | |
| Sakai | 139,500 | 53,000 | .... | .... | ¹ 38,000 | ¹ 28,000 | .... | ⁴ 72,500 ⁵ 82,000 ⁶ 79,000 ¹ 43,500 ⁴ 30,500 ⁵ 47,500 ⁸ 39,000 | .... | .... | ¹ 23,500 | .... | .... | .... | ⁶ 13.5 ¹ 20.5 ⁶ 18.0 | .... | 340 | .... |
| Wakayama | 154,500 | 54,500 | .... | .... | ¹ 36,500 | ¹ 3,900 | .... | ¹ 39,000 ⁴ 41,500 ⁵ 42,000 ⁸ 29,000 ¹¹ 9,000 | ¹ 3,000 | .... | .... | .... | 7,000 | .... | ¹ 19.5 ⁵ 7.0 ⁶ 10.0 | .... | 165 | .... |
| Wakayama Petroleum Refining Co. Ltd.— Kainan City, Wakayama ..... | .... | 30,000 | .... | .... | .... | .... | .... | 20,000 ¹¹ 9,000 | .... | .... | .... | .... | 8,500 | .... | ² 135.0 | .... | .... | .... |
| Total | 4,706,940 | 1,651,975 | 93,400 | 0 | 875,050 | 673,500 | 173,190 | 4,318,510 | 44,220 | 7,140 | 242,273 | 20,900 | 42,163 | 3,078 | 1,327.1 | 1,913 | 8,838 | 119,400 |
| JORDAN | | | | | | | | | | | | | | | | | | |
| Jordan Petroleum Refinery— Zerka | 90,400 | 21,500 | .... | .... | ¹ 4,000 | ¹ 10,900 | ^c 14,350 | ¹ 17,300 | .... | .... | .... | .... | .... | .... | ² 8.0 ⁴ 8.0 | .... | .... | 4,250 |
| Total | 90,400 | 21,500 | 0 | 0 | 4,000 | 10,900 | 4,350 | 17,300 | 0 | 0 | 0 | 0 | 0 | 0 | 16.0 | 0 | 0 | 4,250 |
| KAZAKHSTAN | | | | | | | | | | | | | | | | | | |
| Kazakoil—Atyrau | 104,427 | 27,064 | ² 13,720 | .... | .... | ¹ 8,808 | .... | ¹ 9,200 | .... | .... | .... | .... | .... | .... | .... | 500 | .... | .... |
| Pavlodar | 162,666 | 93,973 | ² 11,277 | ² 30,071 | ¹ 38,356 | ¹ 26,178 | .... | ¹ 27,200 49,863 ⁸ 46,027 | .... | .... | .... | .... | .... | .... | ¹ 21.5 | 500 | 64 | 8,550 |
| PetroKazakhstan—Shymkent | 78,000 | .... | .... | ² 22,000 | .... | ¹ 16,600 | .... | ¹ 16,600 ⁴ 9,100 ⁵ 19,900 | .... | .... | .... | .... | .... | .... | .... | .... | 60 | .... |
| Total | 345,093 | 121,037 | 24,997 | 52,071 | 38,356 | 51,586 | 0 | 177,890 | 0 | 0 | 0 | 0 | 0 | 0 | 21.5 | 1,000 | 124 | 8,550 |
| KENYA | | | | | | | | | | | | | | | | | | |
| Kenya Petroleum Refineries Ltd.— Mombasa* | 85,500 | .... | .... | .... | .... | ¹ 8,100 | .... | 30,000 6,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | 1,100 |
| Total | 85,500 | 0 | 0 | 0 | 0 | 8,100 | 0 | 36,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 1,100 |
| KUWAIT | | | | | | | | | | | | | | | | | | |
| Kuwait National Petroleum Co.— Mina Abdulla* | 256,500 | 142,500 | ² 72,000 | .... | .... | .... | ^c 138,250 | ² 9,000 ⁴ 36,000 ⁵ 36,000 ¹⁰ 90,900 | .... | .... | .... | .... | .... | .... | ^a 176.4 ⁴ 32.9 | 2,800 | 729 | .... |
| Mina Al-Ahmadi* | 442,700 | 80,750 | .... | .... | ¹ 36,000 | ³ 32,400 | ^c 136,900 | ¹ 51,300 ⁴ 18,720 ⁵ 118,440 ¹⁰ 118,800 | ¹ 5,616 | .... | .... | .... | .... | ¹ 6,561 | ¹ 178.2 ⁴ 50.9 | .... | 1,440 | .... |
| Shuaiba* | 190,000 | 104,500 | .... | .... | .... | ¹ 13,500 | ¹ 40,500 ² 48,600 | ¹ 23,400 ⁴ 31,500 ⁵ 27,000 | .... | .... | .... | .... | .... | .... | ¹ 199.8 | .... | 1,080 | .... |
| Total | 889,200 | 327,750 | 72,000 | 0 | 36,000 | 45,900 | 164,250 | 561,060 | 5,616 | 0 | 0 | 0 | 0 | 6,561 | 638.2 | 2,800 | 3,249 | 0 |
| KYRGYZSTAN | | | | | | | | | | | | | | | | | | |
| Kyrgoil—Dzhalalabad | 10,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total | 10,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
|---|-----------------------|------------------------|---------------------|-----------------------|-----------------------|---|----------------------------|---|---------------------------|--------------------|-----------|---------------------|-------|------------------|--|-------|------|---------------------|---------------|-----------------|---------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | | | | | | | |
| LEBANON | | | | | | | | | | | | | | | | | | | | | |
| Tripoli Oil Installations—Tripoli..... | 20,000 | 12,730 | .... | .... | ¹ 7,250 | ¹ 4,392 | .... | 7,392 | .... | .... | .... | .... | .... | .... | .... | .... | .... | 409 | | | |
| Zahrani Oil Installations—Sidon ... | 17,500 | .... | .... | .... | .... | ¹ 3,050 | .... | ¹ 3,050 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |  |
| Total | 37,500 | 12,730 | 0 | 0 | 7,250 | 7,442 | 0 | 10,442 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 409 | | | |
| LIBERIA | | | | | | | | | | | | | | | | | | | | | |
| Liberia Petroleum Refining— Monrovia | 15,000 | 1,000 | .... | .... | .... | ¹ 2,000 | .... | ¹ 2,300 ¹ 0,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | 200 | | | |
| Total | 15,000 | 1,000 | 0 | 0 | 0 | 2,000 | 0 | 3,300 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 200 | | | |
| LIBYA | | | | | | | | | | | | | | | | | | | | | |
| Azzawiya Oil Refining Co.— Azzawiya and Benghazi | 120,000 | 3,775 | .... | .... | .... | ¹ 15,750 | .... | ¹ 16,604 ⁶ 19,926 | .... | .... | .... | .... | 635 | .... | .... | .... | .... | 3,432 | | | |
| Ras Lanuf Oil Gas Processing Co.—Ras Lanuf..... | 220,000 | .... | .... | .... | .... | ¹ 3,300 | .... | ² 5,600 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |  |
| Sarir Refining—Sarir | 10,000 | .... | .... | .... | .... | ¹ 1,200 | .... | ² 1,200 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |  |
| Sirte Oil Co.—Brega | 10,000 | .... | .... | .... | .... | ¹ 1,200 | .... | ² 1,200 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |  |
| Tobruk Refining—Tobruk | 20,000 | .... | .... | .... | .... | ¹ 1,200 | .... | ² 1,200 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |  |
| Total | 380,000 | 3,775 | 0 | 0 | 0 | 20,250 | 0 | 43,330 | 0 | 0 | 0 | 0 | 635 | 0 | 0.0 | 0 | 0 | 3,432 | | | |
| LITHUANIA | | | | | | | | | | | | | | | | | | | | | |
| JSC Mazeikiu Nafta—Mazeikiai..... | 263,420 | 83,223 | .... | ² 29,525 | ¹ 43,692 | ¹ 25,741 | .... | ¹ 51,482 11,937 ⁸ 42,511 | .... | ¹ 6,800 | .... | 14,000 | .... | ¹ 125 | ¹ 62.5 | .... | 198 | .... |  |  |  |
| Total | 263,420 | 83,223 | 0 | 29,525 | 43,692 | 25,741 | 0 | 105,930 | 0 | 6,800 | 0 | 14,000 | 0 | 125 | 62.5 | 0 | 198 | 0 | | | |
| MACEDONIA | | | | | | | | | | | | | | | | | | | | | |
| Hellenic Petroleum SA— Skopje ^E | 50,000 | .... | .... | .... | .... | ¹ 10,860 | .... | ¹ 15,930 ⁵ 6,120 | .... | .... | .... | ³ 4,390 | .... | .... | .... | .... | .... | .... |  |  |  |
| Total | 50,000 | 0 | 0 | 0 | 0 | 10,860 | 0 | 22,050 | 0 | 0 | 0 | 4,390 | 0 | 0 | 0.0 | 0 | 0 | 0 | | | |
| MADAGASCAR | | | | | | | | | | | | | | | | | | | | | |
| Galana Raffinerie Terminal— Toamasina | 15,000 | 1,500 | .... | ² 6,000 | .... | ² 2,000 | .... | ⁵ 3,600 ⁷ 4,500 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |  |
| Total | 15,000 | 1,500 | 0 | 6,000 | 0 | 2,000 | 0 | 8,100 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 | | | |
| MALAYSIA | | | | | | | | | | | | | | | | | | | | | |
| Esso Malaysia Bhd.— Port Dickson | 86,000 | .... | .... | .... | .... | ¹ 19,000 | .... | ¹ 25,500 ⁴ 11,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |  |
| Petronas—Kertih, Terengganu | 40,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |  |
| Melaka I | 92,832 | .... | .... | .... | .... | ³ 23,500 | .... | ² 23,357 ⁴ 19,016 | .... | .... | .... | .... | .... | .... | ^a 12.0 ⁴ 61.6 | 975 | 200 | .... |  |  |  |
| Melaka II | 126,000 | 68,000 | ² 24,000 | .... | .... | ³ 27,500 | ² 36,000 | ² 39,227 ⁴ 18,000 ⁵ 40,500 | .... | .... | .... | ³ 10,800 | .... | .... | ¹ 12.0 ⁴ 61.6 | 1,270 | 260 | 4,000 | | | |
| Sarawak Shell Bhd.—Lutong..... | 45,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |  |
| Shell Refining Co. Bhd.— Port Dickson | 155,000 | 7,000 | .... | .... | .... | ¹ 4,000 ³ 13,000 | .... | ² 32,000 ⁵ 0,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | 4,000 | | | |
| Total | 544,832 | 75,000 | 24,000 | 0 | 0 | 87,000 | 36,000 | 213,600 | 0 | 0 | 0 | 10,800 | 0 | 0 | 147.2 | 2,245 | 460 | 8,000 | | | |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
|--|-----------------------|------------------------|---------------------|--|-----------------------|------------------------|----------------------------|---|---------------------------|-----------|--|---------------------|--------|-------------------|-------------------|-------|---------------------|---------------|-----------------|---------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | | | | | | |
| MARTINIQUE | | | | | | | | | | | | | | | | | | | | |
| Societe Anonyme de la Raffinerie des Antilles— Fort-de-France..... | 17,000 | .... | .... | .... | .... | ⁴ 3,019 | .... | ¹⁵ 176 8,977 | .... | .... | .... | .... | .... | .... | .... | .... | 15 | .... |  |  |
| Total | 17,000 | 0 | 0 | 0 | 0 | 3,019 | 0 | 14,153 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 15 | 0 | | |
| MEXICO | | | | | | | | | | | | | | | | | | | | |
| Petroleos Mexicanos— | | | | | | | | | | | | | | | | | | | | |
| Cadereyta | 275,000 | 137,000 | 54,000 | .... | ¹ 90,000 | ¹ 46,000 | .... | 186,000 | 22,900 | .... | .... | .... | .... | ¹² 200 | 60.0 | 2,515 | .... | 5,000 | | |
| Cd. Madero..... | 320,000 | 156,000 | 10,000 | .... | ¹ 61,000 | ¹ 45,000 | .... | 147,700 | ²¹ 2,700 | .... | .... | .... | .... | 2,000 | 42.0 | 420 | .... | 18,000 | | |
| Minatitlan | 194,000 | 81,000 | .... | .... | ¹ 24,000 | ¹ 31,000 | .... | 100,000 | 15,000 | .... | ¹¹ 7,000 | .... | .... | .... | .... | .... | .... | .... |  |  |
| Salamanca..... | 245,000 | 147,000 | .... | .... | ¹ 40,000 | ¹ 47,300 | ²¹ 8,000 | 121,000 | 15,434 | .... | .... | .... | 17,000 | 880 | 60.0 | .... | .... | 15,000 | | |
| Salina Cruz | 330,000 | 165,000 | 50,000 | .... | ¹ 80,000 | ³ 50,000 | .... | 161,000 | 29,400 | .... | .... | .... | .... | 1,800 | .... | .... | .... | .... |  |  |
| Tula Hidalgo | 320,000 | 159,000 | ¹ 41,000 | .... | ¹ 80,000 | ¹ 65,000 | .... | 268,400 | 22,677 | .... | .... | .... | .... | 3,600 | .... | .... | .... | .... |  |  |
| Total | 1,684,000 | 845,000 | 155,000 | 0 | 375,000 | 284,300 | 18,000 | 984,100 | 118,111 | 0 | 17,000 | 0 | 17,000 | 10,480 | 162.0 | 2,935 | 0 | 38,000 | | |
| MOROCCO | | | | | | | | | | | | | | | | | | | | |
| Societe Anonyme Marocaine de L'Industrie du Raffinage— Mohammedia..... | 125,230 | 17,465 | .... | .... | .... | ¹ 21,830 | .... | ¹ 21,830 ⁷ 8,670 ¹¹ 2,510 | .... | .... | .... | .... | 2,460 | .... | .... | .... | .... | 5,630 | | |
| Sidi Kacem* | 29,671 | 7,456 | .... | .... | ²⁵ 0,040 | ¹² 5,29 | .... | ¹² 5,29 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |
| Total | 154,901 | 24,921 | 0 | 0 | 5,040 | 24,359 | 0 | 35,539 | 0 | 0 | 0 | 0 | 2,460 | 0 | 0.0 | 0 | 0 | 5,630 | | |
| MYANMAR | | | | | | | | | | | | | | | | | | | | |
| Myanma Petrochemical | | | | | | | | | | | | | | | | | | | | |
| Enterprise—Chauk..... | 6,000 | 2,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |
| Thanlyin..... | 26,000 | 2,000 | ²⁵ 5,200 | .... | .... | .... | .... | .... | .... | .... | .... | .... | 500 | .... | .... | 120 | .... | .... |  |  |
| Thanbayakan..... | 25,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |
| Total | 57,000 | 4,000 | 5,200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 500 | 0 | 0.0 | 120 | 0 | 0 | | |
| NETHERLANDS | | | | | | | | | | | | | | | | | | | | |
| ExxonMobil Refining Supply Co.— Rotterdam | 188,000 | 80,000 | ³ 39,000 | .... | .... | ² 31,000 | ^{c1} 50,000 | ¹ 32,000 ²¹ 2,000 ⁴ 35,000 ⁵ 40,000 ⁹ 20,000 | .... | .... | ¹² 9,000 ³⁵ 5,700 | .... | .... | .... | ¹ 24.0 | .... | 485 | .... |  |  |
| Kuwait Petroleum Europoort BV— Rotterdam | 75,500 | 37,600 | .... | ¹⁹ 200 ²⁶ 8,800 | .... | ³ 22,600 | .... | ¹ 41,200 ⁴ 10,000 ⁵ 21,800 ¹¹ 5,900 | .... | .... | .... | ³⁶ 5,500 | 4,500 | .... | ⁴ 2.0 | .... | 72 | 3,320 | | |
| Netherlands Refining Co.— Europoort* | 380,000 | 83,600 | .... | ² 33,300 | ¹ 55,800 | ¹ 27,900 | .... | ⁴ 149,400 ⁵ 81,900 ¹³ 24,200 | ² 8,100 | .... | .... | .... | .... | ¹¹ 800 | ⁶ 15.0 | .... | 217 | .... |  |  |
| Shell Nederland Raffinaderij BV— Pernis..... | 416,000 | 148,000 | .... | ² 46,000 | ¹ 50,000 | ³ 42,000 | ² 89,000 | ² 138,000 ³ 8,000 ¹¹ 300 86,000 | ² 6,800 | .... | .... | .... | 7,100 | ¹² 550 | ¹ 59.0 | .... | .... | 5,500 | | |
| Smid Hollander Raffinaderij BV— Amsterdam | 10,000 | 8,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 5,800 | | |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | | |
|--|-----------------------|------------------------|---------------------|-----------------------|-----------------------|---|----------------------------|--|---------------------------|---------------------|---------------------|--------------------|---------------|--------------------|--|---------------|-----------------|---------------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
| Total Raffinery Netherlands— Vlissingen | 158,000 | 59,500 | .... | .... | .... | ² 28,000 | ^c 155,500 | ¹ 18,000 ⁵ 37,000 | .... | .... | ¹ 18,800 | .... | .... | .... | ¹ 70.0 | .... | 265 | .... |
| Total | 1,227,500 | 416,700 | 39,000 | 95,300 | 105,800 | 151,500 | 194,500 | 760,700 | 14,900 | 0 | 53,500 | 6,500 | 11,600 | 4,350 | 170.0 | 0 | 1,039 | 14,620 |
| NETHERLANDS ANTILLES | | | | | | | | | | | | | | | | | | |
| Refineria Isla Curazao SA— Emmstad | 320,000 | 195,000 | .... | ¹ 80,000 | ¹ 50,000 | ¹ 20,000 | .... | ¹ 53,000 ⁵ 37,000 ⁸ 26,000 ¹¹ 3,500 | ² 9,000 | ¹ 2,000 | .... | .... | 12,000 | .... | ² 20.8 ⁴ 33.8 | .... | 300 | 26,000 |
| Total | 320,000 | 195,000 | 0 | 80,000 | 50,000 | 20,000 | 0 | 119,500 | 9,000 | 2,000 | 0 | 0 | 12,000 | 0 | 54.6 | 0 | 300 | 26,000 |
| NEW ZEALAND | | | | | | | | | | | | | | | | | | |
| New Zealand Refining Co. Ltd.—Marsden Point, Northland* | 103,550 | 39,900 | .... | .... | .... | ¹ 27,000 | ^c 126,100 | ¹ 36,000 ⁴ 6,300 ⁵ 6,600 | .... | .... | .... | .... | .... | .... | ¹ 58.0 | .... | 159 | 4,850 |
| Total | 103,550 | 39,900 | 0 | 0 | 0 | 27,000 | 26,100 | 48,900 | 0 | 0 | 0 | 0 | 0 | 0 | 58.0 | 0 | 159 | 4,850 |
| NICARAGUA | | | | | | | | | | | | | | | | | | |
| Esso Caribbean and Central America—Managua..... | 20,000 | 1,500 | .... | .... | .... | ¹ 2,900 | .... | ¹ 5,500 ⁴ 4,000 ⁷ 5,500 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total | 20,000 | 1,500 | 0 | 0 | 0 | 2,900 | 0 | 15,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 |
| NIGERIA | | | | | | | | | | | | | | | | | | |
| Kaduna Refinery Petrochemical Co. (NNPC)—Kaduna..... | 110,000 | 36,290 | .... | .... | ¹ 18,000 | ¹ 15,300 | .... | ¹ 21,600 ¹⁵ 750 ¹³ 536 | .... | .... | ² 291 | .... | 3,878 | .... | .... | .... | .... | 14,850 |
| Port Harcourt Refining Co. (NNPC)— Port Harcourt, Alesa Eleme | 60,000 | .... | .... | .... | .... | ¹ 6,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Port Harcourt, Rivers State | 150,000 | 54,000 | .... | .... | ¹ 40,000 | ⁴ 33,000 | .... | ¹ 33,000 ⁷ 14,500 | ² 7,020 | ² 2,274 | .... | ¹ 3,610 | .... | .... | .... | .... | .... | .... |
| Warri Refinery Petrochemical Co. (NNPC)—Warri | 118,750 | 34,200 | .... | .... | ¹ 24,700 | ¹ 15,770 | .... | ² 15,770 ⁶ 8,075 | ² 2,850 | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total | 438,750 | 124,490 | 0 | 0 | 82,700 | 70,070 | 0 | 109,231 | 9,870 | 2,274 | 291 | 3,610 | 3,878 | 0 | 0.0 | 0 | 0 | 14,850 |
| NORTH KOREA | | | | | | | | | | | | | | | | | | |
| Government Refinery I..... | 29,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Government Refinery II—Ungi..... | 42,000 | .... | .... | .... | .... | ¹ 7,300 | .... | ¹ 7,400 | .... | .... | ¹ 1,000 | .... | .... | ¹ 1,000 | .... | .... | .... | .... |
| Total | 71,000 | 0 | 0 | 0 | 0 | 7,300 | 0 | 7,400 | 0 | 0 | 1,000 | 0 | 0 | 1,000 | 0.0 | 0 | 0 | 0 |
| NORWAY | | | | | | | | | | | | | | | | | | |
| ExxonMobil Refining Supply Co.—Slagen | 110,000 | .... | .... | ² 32,000 | .... | ¹ 12,000 | .... | ¹ 22,000 ⁵ 38,000 ⁷ 12,000 | .... | .... | .... | .... | .... | .... | .... | .... | 23 | .... |
| Statoil Mongstad—Mongstad | 200,000 | .... | ² 25,000 | .... | ² 54,000 | ¹ 9,800 ³ 15,800 | .... | ¹ 26,000 ⁷ 10,000 ¹⁶ 900 ¹⁷ 1,100 | .... | ¹ 11,500 | .... | ³ 4,000 | .... | .... | .... | 610 | .... | .... |
| Total | 310,000 | 0 | 25,000 | 32,000 | 54,000 | 37,600 | 0 | 142,000 | 0 | 11,500 | 0 | 4,000 | 0 | 0 | 0.0 | 610 | 23 | 0 |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | | |
|---|-----------------------|------------------------|----------|-----------------------|-----------------------|--|---|---|---------------------------|-----------|--|---------------------|--------------|--------------|---------------------|---------------|-----------------|---------------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
| OMAN | | | | | | | | | | | | | | | | | | |
| Oman Refinery Co.— Mina Al Fahal..... | 85,000 | .... | .... | .... | .... | ³ 16,000 | .... | ² 21,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total | 85,000 | 0 | 0 | 0 | 0 | 16,000 | 0 | 21,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 |
| PAKISTAN | | | | | | | | | | | | | | | | | | |
| Attock Refinery Ltd.— Rawalpindi* | 35,625 | 5,415 | .... | .... | .... | ¹ 4,500 | .... | ¹ 5,850 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Bosicor Refinery Ltd.—Karachi..... | 30,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| National Refinery Ltd.— Korangi, Karachi | 62,050 | 14,400 | .... | .... | .... | ¹ 3,800 | .... | ¹ 3,900 ⁴ 10,000 | .... | .... | ¹ 1,400 | .... | 3,800 | .... | .... | .... | .... | 4,200 |
| Pakistan Refinery Ltd.—Karachi | 46,300 | .... | .... | .... | .... | ² 2,700 | .... | 18,100 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Pak-Arab Refinery Co.— Mahmood Kot, Punjab | 95,000 | 40,660 | .... | 14,004 | .... | 14,715 | 20,205 | 23,085 | .... | .... | .... | .... | .... | .... | .... | .... | 115 | .... |
| Total | 268,975 | 60,475 | 0 | 14,004 | 0 | 25,715 | 20,205 | 60,935 | 0 | 0 | 1,400 | 0 | 3,800 | 0 | 0.0 | 0 | 115 | 4,200 |
| PAPUA NEW GUINEA | | | | | | | | | | | | | | | | | | |
| Interoil—Port Moresby | 32,500 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total | 32,500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 |
| PARAGUAY | | | | | | | | | | | | | | | | | | |
| Petroleos Paraguayos— Villa Elisa | 7,500 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total | 7,500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 |
| PERU | | | | | | | | | | | | | | | | | | |
| Maple Gas Corp.—Pucallpa | 3,250 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Petroperu SA—Conchan, Lima..... | 13,500 | 9,500 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Iquitos, Loreto | 10,500 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| El Milagro, Amazonas | 1,700 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Talara, Piura | 62,000 | 24,500 | .... | .... | ¹ 18,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Repsol YPF SA— La Pampilla Lima | 102,000 | 25,500 | .... | .... | ¹ 13,500 | ¹ 2,100 | .... | ¹ 2,800 | .... | .... | .... | .... | .... | .... | .... | .... | .... | 3,800 |
| Total | 192,950 | 59,500 | 0 | 0 | 31,500 | 2,100 | 0 | 2,800 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 3,800 |
| PHILIPPINES | | | | | | | | | | | | | | | | | | |
| Petron Corp.—Limay, Bataan | 180,000 | 32,000 | .... | .... | ¹ 15,000 | ³ 17,000 | .... | ² 54,000 | .... | .... | .... | .... | .... | .... | ⁴ 10.0 | .... | 71 | .... |
| Philippine Petroleum Corp.— Pililla ..... | .... | 21,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 3,700 | .... | .... | .... | .... | 1,200 |
| Pilipinas Shell Petroleum Corp.— Tabango | 153,000 | .... | .... | 22,000 | .... | ³ 18,900 | .... | ² 31,100 47,300 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total | 333,000 | 53,000 | 0 | 22,000 | 15,000 | 35,900 | 0 | 132,400 | 0 | 0 | 0 | 0 | 3,700 | 0 | 10.0 | 0 | 71 | 1,200 |
| POLAND | | | | | | | | | | | | | | | | | | |
| Nafta Polska SA—Czechowice..... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Gorlice ..... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Jaslo ..... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Petrochemia—Plock/Trezebina | 260,000 | 115,000 | .... | .... | ¹ 46,000 | ¹ 25,000 | ¹ 49,500 | ¹ 24,000 ⁷ 38,000 ¹¹ 3,000 | ² 3,000 | .... | ¹ 3,500 ² 770 | .... | .... | 11,600 | .... | .... | .... | 13,000 |
| Grupa Lotos SA— Gdansk/Jedlicze ^B | 90,000 | 42,000 | .... | .... | .... | ¹ 10,000 ³ 12,500 | ¹ 30,000 ³ 3,800 | ¹ 25,800 ⁵ 21,000 ¹¹ 5,000 | .... | .... | .... | ³ 10,000 | 3,800 | .... | .... | .... | .... | 4,300 |
| Total | 350,000 | 157,000 | 0 | 0 | 46,000 | 47,500 | 83,300 | 116,800 | 3,000 | 0 | 4,270 | 10,000 | 3,800 | 1,600 | 0 | 0 | 0 | 17,300 |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
|---|-----------------------|------------------------|---------------------|-----------------------|-----------------------|--|----------------------------|---|---------------------------|------------------|--------------------|---------------------|--------|------------------|--|-------|---------------------|---------------|-----------------|---------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | | | | | | |
| PORTUGAL | | | | | | | | | | | | | | | | | | | | |
| Galp Energia—Leca da Palmeira, Porto* ^N | 91,277 | 11,357 | .... | .... | .... | ¹ 14,831 ³ 10,601 | .... | ¹ 24,750 ⁵ 62,100 ⁸ 13,500 ¹² 24,300 | ² 5,400 | .... | .... | .... | .... | .... | ² 27.0 ⁴ 22.3 | .... | 186 | .... |  |  |
| Sines* | 212,895 | 71,393 | .... | ² 23,400 | ¹ 40,500 | ³ 24,750 | ^m 49,180 | ¹ 24,750 ⁵ 62,100 ⁸ 13,500 ¹² 24,300 | ² 5,400 | .... | .... | .... | .... | .... | ² 30.0 ⁴ 24.8 | .... | 207 | .... |  |  |
| Total | 304,172 | 82,750 | 0 | 23,400 | 40,500 | 50,182 | 9,180 | 249,300 | 10,800 | 0 | 0 | 0 | 0 | 0 | 104.1 | 0 | 393 | 0 | | |
| PUERTO RICO | | | | | | | | | | | | | | | | | | | | |
| Shell Chemical Yabucoa Inc.— Yabucoa | 73,000 | 34,000 | .... | .... | .... | ¹ 21,000 | ^c 420,000 | ¹ 21,000 | .... | .... | .... | .... | .... | .... | ¹ 20.0 | .... | 34 | .... |  |  |
| Total | 73,000 | 34,000 | 0 | 0 | 0 | 21,000 | 20,000 | 21,000 | 0 | 0 | 0 | 0 | 0 | 0 | 20.0 | 0 | 34 | 0 | | |
| QATAR | | | | | | | | | | | | | | | | | | | | |
| National Oil Distribution Co.— Umm Said | 200,000 | .... | .... | .... | ¹ 60,000 | ¹ 20,000 ³ 9,400 | 20,000 | ² 19,500 ⁷ 19,850 | .... | .... | .... | ³ 25,000 | .... | .... | .... | .... | .... | .... |  |  |
| Total | 200,000 | 0 | 0 | 0 | 60,000 | 29,400 | 20,000 | 39,350 | 0 | 0 | 0 | 25,000 | 0 | 0 | 0.0 | 0 | 0 | 0 | | |
| ROMANIA | | | | | | | | | | | | | | | | | | | | |
| Arpechim SA—Pitesti | 70,288 | 37,589 | .... | ² 11,277 | ² 19,178 | ¹ 12,233 | ^c 31,534 | ¹ 11,507 19,178 | .... | .... | ¹ 1,591 | .... | 752 | .... | ¹ 1.5 | .... | 22 | 3,320 | | |
| Astra SA—Ploiesti | 56,000 | 9,400 | ² 8,600 | .... | .... | .... | .... | 3,000 | .... | .... | .... | .... | 6,300 | .... | ¹ 2.1 | 220 | .... | 1,500 | | |
| Petrobrazi SA—Ploiesti | 69,280 | 39,240 | ² 12,660 | .... | ¹ 21,400 | ¹ 13,440 | .... | ¹ 13,920 ⁷ 5,540 | .... | .... | ¹ 1,510 | ³ 995 | .... | .... | .... | 400 | .... | .... |  |  |
| Petrolsub SA—Bacau | 8,000 | 5,200 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 210 | .... | .... | .... | .... | 2,870 | | |
| Petromidia SA—Midia | 105,000 | 46,000 | ² 20,000 | .... | ¹ 24,000 | ¹ 11,600 | .... | ¹ 28,000 7,500 ⁸ 15,000 ¹² 22,500 | .... | .... | ¹ 4,700 | .... | .... | ¹ 820 | ¹ 6.1 | 1,150 | 87 | .... |  |  |
| Petrotel SA—Ploiesti | 104,000 | 55,970 | ² 11,480 | ² 5,500 | ¹ 20,900 | ¹ 11,490 | .... | ¹ 20,000 ⁷ 20,680 ¹¹ 3,200 | ² 2,300 | .... | .... | .... | 2,680 | ¹ 510 | ² 4.3 | 270 | .... | 3,670 | | |
| Rafinaria Darmanesti SA— Darmanesti | 16,000 | .... | ¹ 9,500 | ¹ 8,800 | .... | ² 3,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | 300 | .... | .... |  |  |
| Rafo SA—Onesti, Bacau | 70,000 | 70,000 | ¹ 6,000 | ² 12,000 | ¹ 24,000 | ³ 10,000 | .... | ¹ 16,000 ⁴ 6,800 ⁵ 14,000 ⁷ 6,800 ⁸ 24,000 | .... | .... | .... | ³ 2,851 | .... | .... | ¹ 4.0 | 215 | 34 | .... |  |  |
| Rompetrol SA Vega Refinery— Ploiesti | 8,717 | 3,485 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 1,291 | | |
| Steaua Romania SA—Cimpina | 9,272 | 6,341 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 424 | .... | .... | .... | .... | 1,110 | | |
| Total | 516,557 | 273,225 | 68,240 | 37,577 | 109,478 | 61,763 | 1,534 | 237,625 | 2,300 | 0 | 7,801 | 3,846 | 10,366 | 1,330 | 18.0 | 2,555 | 143 | 13,761 | | |
| RUSSIA | | | | | | | | | | | | | | | | | | | | |
| Alliance Oil Co.— Khabarovsk | 94,000 | 10,149 | .... | 14,284 | .... | ¹ 9,786 | .... | ¹ 10,556 | .... | .... | .... | .... | .... | .... | .... | .... | .... | 5,811 | | |
| Bashneftekhimzavody— Novo-Ufa | 285,000 | 93,800 | ² 7,142 | ² 51,700 | ² 22,247 | ³ 25,400 ¹ 22,300 | .... | ¹ 52,000 65,205 | ¹ 2,814 | .... | .... | .... | 9,585 | .... | .... | 260 | 218 | 14,278 | | |
| Ufa | 234,962 | 98,671 | .... | ¹ 30,900 | ² 38,356 | ¹ 14,679 | .... | ¹ 15,000 33,300 ⁸ 42,192 | .... | ¹ 979 | .... | .... | .... | .... | ¹ 21.5 | .... | 72 | 498 | | |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | | |
|---|-----------------------|------------------------|--|--|-----------------------|--|----------------------------|--|---------------------------|------------------|--|--------------------|--------|--------------------|---------------------|---------------|-----------------|---------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
| Ufaneftkhim | 184,200 | 62,000 | .... | ¹ 23,700 | ² 17,260 | ¹ 8,900 | ¹ 19,178 | ¹ 31,600 | .... | .... | ¹ 8,700 | .... | 7,330 | .... | ¹ 21.5 | .... | .... | 4,981 |
| Central Fuel Co.—Moscow | 242,995 | 90,214 | .... | ¹ 20,000 | ² 31,320 | ³ 21,775 ¹ 33,029 | .... | ⁴ 48,904 ¹ 34,000 ⁶ 66,548 ⁸ 42,192 | .... | .... | .... | ³ 3,542 | .... | ¹ 1,000 | ¹ 21.5 | .... | .... | 22,600 |
| Chernogor-neft Refinery— Chernogor-neft | 2,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Dagestan Oil—Makhachkala | 4,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Krasnodareconeft—Krasno | 34,140 | 14,472 | .... | ¹ 10,149 | .... | .... | .... | ⁵ 25,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | 5,645 |
| Lukoil—Kogalym | 10,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Kstovo, Nizhny Novgorod | 359,200 | 74,600 | .... | .... | .... | ¹ 45,506 | .... | ¹ 46,800 ¹ 107,500 ¹ 16,904 | .... | .... | ¹ 1,790 ² 1,890 | .... | 7,020 | .... | .... | .... | .... | 15,607 |
| Perm | 279,142 | 126,000 | ² 8,230 | ² 9,115 | ¹ 15,726 | ¹ 35,496 ⁵ 84,200 | .... | ¹ 36,000 ⁸ 4,200 | ¹ 1,003 | .... | ¹ 1,840 | ² 5,000 | 8,833 | .... | .... | 490 | .... | 5,645 |
| Ukhta | 126,518 | 13,156 | .... | ¹ 7,518 | .... | ¹ 9,297 | ⁴ 18,700 | ¹ 9,500 | .... | .... | .... | .... | .... | .... | .... | .... | .... | 4,981 |
| Volgograd | 200,000 | 79,501 | ¹ 8,230 ³ 3,101 | ² 9,115 | .... | ¹ 18,839 | .... | ¹ 19,100 ⁵ 40,500 ¹ 16,904 | .... | .... | ¹ 1,830 | .... | 13,065 | .... | ⁷ 10.8 | 1,020 | .... | 3,985 |
| Mari El Refinery— Mari Republic | 2,000 | .... | .... | .... | .... | .... | .... | ⁵ 26,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Norilsk Refinery—Norilsk | 2,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Rosneft—Afipsky | 28,115 | .... | .... | .... | .... | ¹ 16,147 | .... | ¹ 12,658 | .... | .... | ¹ 3,680 | .... | .... | .... | .... | .... | .... | .... |
| Komsomolsk | 108,000 | 33,266 | ³ 9,679 | ² 11,300 | .... | 8,100 | .... | 19,000 | .... | .... | .... | 2,700 | .... | .... | .... | .... | .... | .... |
| Tarasovskoye | 2,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Tuapse | 46,189 | .... | .... | .... | .... | ¹ 7,829 | .... | ¹ 8,100 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Afipsky ..... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | ² 2,387 | .... | .... | .... | .... | .... | .... | .... |
| Salavatnefteorgsintez—Salavat | 168,300 | 73,299 | .... | ² 9,397 | ² 10,225 | ¹ 30,160 | .... | ² 30,400 ⁴ 2,000 | ¹ 1,174 | .... | ¹ 1,591 | .... | .... | ² 3,000 | .... | .... | 290 | .... |
| Sibneft—Omsk | 378,000 | 195,000 | ¹ 12,100 | ² 26,500 ³ 30,071 | ¹ 65,589 | ¹ 42,400 ² 24,710 | 19,178 | ¹ 67,100 ⁴ 3,000 ⁸ 42,192 ¹ 16,904 | ¹ 1,272 | .... | ¹ 11,139 | .... | 3,800 | ¹ 1,750 | .... | 510 | .... | 17,433 |
| Sidanco—Cracking-Saratov | 134,387 | 65,780 | .... | .... | .... | ² 23,487 | .... | ¹ 33,562 | .... | .... | .... | .... | .... | .... | .... | .... | 30 | 3,868 |
| Slavneft—Yanos | 290,000 | 270,305 | .... | ² 12,404 | ¹ 30,000 | ¹ 25,689 | .... | ¹ 26,100 ⁵ 6,959 ¹ 12,274 | ¹ 1,786 | .... | ¹ 1,551 | ³ 3,542 | 5,460 | ¹ 800 | .... | .... | .... | 10,460 |
| Yaroslavl/Mendeleyev | 8,700 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 5,300 | .... | .... | .... | .... | .... |
| Surgutneftegaz—Kirishi | 335,900 | 85,327 | .... | .... | .... | ¹ 56,840 | .... | ¹ 67,900 ¹ 104,800 | .... | .... | ¹ 5,172 | ³ 7,085 | .... | .... | .... | .... | 45 | 16,603 |
| Tatneft—Kichuyi | 8,000 | 3,600 | .... | .... | .... | ¹ 1,750 | .... | ¹ 1,850 | .... | .... | .... | .... | .... | .... | .... | .... | .... | 1,200 |
| Nizhnekamsk, Tartarstan | 120,493 | .... | .... | ² 36,000 | .... | .... | .... | ⁵ 46,000 | .... | .... | .... | .... | .... | ¹ 625 | ¹ 18.0 | .... | 50 | 18,000 |
| TNK-BP—Krasnoleninsk | 6,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Niszhevnartovsk ^F | 84,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Orsk, Orenburg | 130,000 | 53,752 | .... | .... | .... | ¹ 17,860 | .... | ¹ 18,400 | ¹ 1,125 | .... | .... | .... | 7,706 | .... | .... | .... | .... | 10,128 |
| Ryazan ^F | 340,000 | 83,636 | .... | ¹ 21,990 | ¹ 18,219 | ¹ 53,335 | .... | ¹ 54,000 ⁷ 6,137 ¹ 16,900 | .... | .... | ¹ 4,078 ² 2,228 | .... | 5,400 | .... | .... | .... | .... | 8,799 |
| Saratov | 130,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Orsk, Orenburg (b) ..... | .... | .... | .... | .... | .... | .... | .... | 54,200 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Tomskneft—Tomsk | 3,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Ulyanovskneft | 1,500 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Yakutsk Refinery—Yakutsk | 2,500 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Yukos—Achinsk | 126,000 | 40,184 | .... | .... | .... | ¹ 25,519 | .... | ¹ 25,519 ⁵ 9,679 | .... | .... | .... | .... | .... | .... | .... | .... | 21 | 11,600 |
| Angarsk | 440,700 | 195,463 | ¹ 11,217 | ² 25,748 | ¹ 33,753 | ¹ 51,040 | .... | ¹ 51,300 ³ 30,685 ¹ 16,900 | .... | .... | ¹ 4,900 | .... | 5,638 | .... | .... | 410 | .... | 8,500 |
| Novo-Kuibishev | 200,000 | 73,000 | ¹ 25,300 | .... | ¹ 17,266 | ¹ 33,518 | .... | ¹ 34,300 ⁶ 4,000 | .... | .... | ¹ 2,188 | .... | 3,705 | .... | .... | 1,030 | .... | 12,286 |
| Samara-Kuibishev | 125,000 | 40,700 | .... | ¹ 15,787 | ² 13,788 | ¹ 43,794 | .... | ¹ 44,400 ⁵ 7,120 | ¹ 832 | ¹ 750 | .... | .... | .... | .... | .... | .... | .... | .... |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | Sulfur (t/d) | Asphalt |
|---|-----------------------|------------------------|---------------|-----------------------|-----------------------|------------------------|----------------------------|-------------------------------|---------------------------|--------------|--------------------|---------------|---------------|--------------|---------------------|---------------|-----------------|------------------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | Hydrogen (MMcfd) | Coke (t/d) | | |
| Strezevoy | 4,400 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Syzran | 151,460 | 48,800 | .... | ¹ 16,915 | ² 17,068 | ¹ 38,550 | .... | ¹ 37,900 78,822 | .... | .... | ¹ 1,760 | .... | .... | .... | .... | .... | .... | ⁷ 637 |
| Total | 5,432,801 | 1,924,675 | 84,999 | 382,593 | 330,817 | 829,935 | 57,056 | 2,170,966 | 10,006 | 1,729 | 56,724 | 21,869 | 82,842 | 7,175 | 93.3 | 3,720 | 726 | 210,545 |

SAUDI ARABIA

Arabian Oil Co. Ltd.—

| | | | | | | | | | | | | | | | | | | |
|--|------------------|----------------|----------|---------------------|---------------------|---------------------|---------------------|--|---------------------|----------|--|--|----------|--------------------|-------------------|----------|----------|----------|
| Ras Al Khafji | 30,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Petromin-Shell—Al-Jubail | 305,000 | 84,000 | .... | ² 32,000 | .... | ³ 19,000 | ¹ 44,000 | ¹ 19,000 ² 61,000 53,000 49,000 | .... | .... | ¹ 5,800 ² 7,000 | .... | .... | .... | ¹ 97.0 | .... | .... | .... |
| Saudi Arabian Oil Co. (Saudi Aramco)—Rabigh | 400,000 | .... | .... | .... | .... | .... | .... | 47,000 | .... | .... | .... | .... | .... | .... | ¹ 12.0 | .... | .... | .... |
| Ras Tanura | 300,000 | 135,000 | .... | ² 60,000 | .... | ¹ 54,000 | 44,000 | ¹ 54,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Jeddah | 60,000 | 34,000 | .... | .... | ¹ 13,000 | ¹ 3,000 | ³ 10,000 | ¹ 3,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Riyadh | 120,000 | 52,350 | .... | .... | .... | ¹ 35,660 | ¹ 33,820 | ¹ 35,660 ⁷ 14,500 | .... | .... | .... | .... | .... | .... | ¹ 80.7 | .... | .... | .... |
| Yanbu | 190,000 | .... | .... | .... | .... | ¹ 35,000 | .... | ¹ 35,000 ⁷ 15,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Saudi Aramco-Mobil—Yanbu | 340,000 | 142,400 | .... | ² 46,100 | ¹ 90,600 | ² 46,700 | .... | ¹ 73,500 ⁷ 93,400 | ² 23,500 | .... | .... | ¹ 12,600 ³ 20,400 | .... | ¹ 2,200 | .... | .... | .... | .... |
| Total | 1,745,000 | 447,750 | 0 | 138,100 | 103,600 | 193,360 | 131,820 | 553,060 | 23,500 | 0 | 12,800 | 33,000 | 0 | 2,200 | 189.7 | 0 | 0 | 0 |

SENEGAL

Ste. Africaine de Raffinage—

| | | | | | | | | | | | | | | | | | | |
|---------------------|---------------|--------------|----------|----------|----------|--------------------|----------|--------------|----------|----------|----------|----------|----------|----------|------------|----------|----------|----------|
| M'Bao (Dakar) | 27,000 | 8,000 | .... | .... | .... | ¹ 2,000 | .... | 2,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total | 27,000 | 8,000 | 0 | 0 | 0 | 2,000 | 0 | 2,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 |

SERBIA AND MONTENEGRO

NIS-Oil Refinery Novi Sad—

| | | | | | | | | | | | | | | | | | | |
|--|----------------|---------------|----------|---------------------|---------------------|---------------------|----------|---|--------------------|----------|------------------|----------|------------|----------|------------------|----------|-----------|--------------|
| Novi Sad | 60,250 | 30,000 | .... | .... | .... | ¹ 12,300 | .... | ¹ 14,300 ⁵ 5,200 ¹ 14,900 ¹ 14,600 | .... | .... | .... | .... | 300 | .... | ¹ 0.5 | .... | .... | 2,400 |
| NIS-Rafinerija Nafta Pancevo— Pancevo | 98,000 | 40,100 | .... | ² 20,340 | ¹ 18,950 | ¹ 7,920 | .... | ¹ 8,070 ⁴ 4,620 ⁵ 9,220 | ¹ 3,070 | .... | ¹ 200 | .... | .... | .... | .... | .... | 59 | .... |
| Total | 158,250 | 70,100 | 0 | 20,340 | 18,950 | 20,220 | 0 | 50,910 | 3,070 | 0 | 200 | 0 | 300 | 0 | 0.5 | 0 | 59 | 2,400 |

SIERRA LEONE

Sierra Leone Petroleum

| | | | | | | | | | | | | | | | | | | |
|----------------------------------|---------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------------|----------|----------|----------|
| Refining Co. Ltd.—Freetown | 10,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total | 10,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 |

SINGAPORE

ExxonMobil Refining

| | | | | | | | | | | | | | | | | | | |
|--|---------|---------|------|----------------------|----------------------|--|----------------------|---|--------------------|------|---------------------|------|--------|------|--|------|------|--------|
| Supply Co.—Jurong/Pulau Ayer Chawan | 605,000 | 163,500 | .... | ² 115,500 | .... | ¹ 35,000 ³ 57,000 | ^m 133,500 | ¹ 132,500 ⁴ 43,000 ⁵ 111,000 | .... | .... | ¹ 44,500 | .... | 31,000 | .... | ¹ 27.0 ⁴ 68.0 | .... | 437 | 13,500 |
| Shell Eastern Petroleum (Pte.) Ltd.—Pulau Bukom | 458,000 | 74,800 | .... | ¹ 266,000 | ¹ 233,000 | ¹ 6,900 ³ 30,100 | ¹ 34,000 | ² 119,300 77,600 | ² 3,000 | .... | .... | .... | 6,500 | .... | ¹ 40.8 | .... | .... | 8,400 |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | Coke (t/d) | Sulfur (t/d) | Asphalt |
|--|-----------------------|------------------------|--------|-----------------------|-----------------------|------------------------|--|-------------------------------|---------------------------|--------------------|-----------|---------------|--------|--------------------|--|------|---------------|-----------------|---------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | Hydrogen (MMcfd) | | | | |
| Singapore Petroleum Co. Ltd.— Pulau Merlimau* | 273,600 | 76,000 | .... | ² 28,800 | ² 36,000 | ² 13,500 | ^{c1} 13,300 ^{m4} 17,000 | ¹ 13,500 76,500 | ¹ 4,500 | ² 4,100 | .... | .... | .... | ¹ 1,400 | ² 35.0 ⁴ 7.0 ⁵ 14.0 ⁶ 5.0 | .... | .... | 10,400 | |
| Total | 1,336,600 | 314,300 | 0 | 210,300 | 69,000 | 142,500 | 97,800 | 573,400 | 7,500 | 4,100 | 44,500 | 0 | 37,500 | 1,400 | 196.8 | 0 | 437 | 32,300 | |

SLOVAKIA

| | | | | | | | | | | | | | | | | | | |
|--|----------------|---------------|----------|----------|---------------------|---------------------|--|--|--------------------|----------|--|--------------------|--------------|--------------------|--|----------|------------|--------------|
| Slovnaft, Joint Stock Co.— Bratislava | 115,000 | 55,000 | .... | .... | ¹ 18,000 | ³ 21,000 | ^{c1} 19,000 ^{c2} 23,000 | ¹ 16,000 ² 6,000 ³ 3,400 ⁴ 9,300 ⁵ 29,000 ⁸ 22,000 ¹³ 2,100 | ¹ 4,500 | .... | ¹ 8,000 ⁴ 1,250 | ³ 6,000 | 2,000 | ¹ 1,500 | ¹ 57.1 ⁴ 24.3 ⁵ 8.2 | .... | 270 | 2,600 |
| Total | 115,000 | 55,000 | 0 | 0 | 18,000 | 21,000 | 42,000 | 87,800 | 4,500 | 0 | 9,250 | 6,000 | 2,000 | 1,500 | 89.60 | 0 | 270 | 2,600 |

SLOVENIA

| | | | | | | | | | | | | | | | | | | |
|-----------------------------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------------|----------|----------|----------|
| Nafta Lendava—Lendava | ¹ 3,500 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total | 13,500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 |

SOUTH AFRICA

| | | | | | | | | | | | | | | | | | | |
|---|----------------|----------------|----------|---------------------|---------------------|---------------------|----------------------|--|--------------------|--------------------|--------------------|--------------------|--------------|----------|---------------------------------------|------------|------------|--------------|
| Caltex Oil SA—Cape Town | 110,000 | 51,200 | .... | ² 11,000 | ¹ 22,300 | ¹ 28,500 | .... | ² 24,000 ⁷ 26,000 ⁵ 18,000 | .... | ¹ 4,000 | .... | ² 5,500 | .... | .... | .... | .... | 82 | .... |
| Engen Petroleum Ltd.—Durban | 120,000 | 45,288 | .... | ² 23,273 | ¹ 25,789 | ¹ 21,701 | .... | ¹ 28,670 ⁴ 17,612 ⁵ 27,676 | ² 2,831 | ¹ 1006 | ¹ 1,478 | ³ 6,290 | 3,373 | .... | ¹ 0.6 | .... | 123 | 5,032 |
| National Petroleum Refiners of South Africa Pty Ltd.— Sasolburg | 87,547 | 34,475 | .... | .... | ¹ 25,660 | ¹ 14,642 | ^{c1} 11,774 | ² 12,830 ⁷ 11,562 | ² 3,295 | .... | .... | ¹ 3,623 | .... | .... | ¹ 29.1 ⁶ 6.1 | .... | 120 | .... |
| Shell and BP PLC Petroleum Refineries Pty. Ltd.—Durban | 172,000 | 71,000 | .... | ² 27,000 | ¹ 35,000 | ¹ 29,000 | .... | ² 46,000 ⁷ 0,000 ⁷ 12,000 ¹ 370 | ² 3,100 | .... | .... | .... | 3,200 | .... | .... | 240 | 140 | .... |
| Total | 489,547 | 201,963 | 0 | 61,273 | 108,749 | 93,843 | 11,774 | 294,720 | 9,226 | 5,006 | 1,478 | 15,413 | 6,573 | 0 | 35.8 | 240 | 465 | 5,032 |

SOUTH KOREA

| | | | | | | | | | | | | | | | | | | |
|---|---------|---------|---------------------|------|---------------------|---|--|--|------|------|---------------------|------|-------|--------------------|---|-------|------|-------|
| Hyundai Lube Oil—Busan | 9,500 | 6,650 | .... | .... | .... | .... | .... | ² 1,800 ¹ 1,080 | .... | .... | .... | .... | 1,800 | .... | ² 0.4 | .... | .... | 3,600 |
| Hyundai Oil Refinery Co.— Daesan | 310,000 | 41,000 | ² 19,000 | .... | .... | ³ 20,000 | ¹ 22,000 | ² 27,000 ¹² 000 | .... | .... | .... | .... | 1,000 | .... | ² 54.0 | 1,200 | 180 | 3,727 |
| Inchon | 270,000 | 18,000 | .... | .... | .... | ¹ 5,400 ³ 22,500 | .... | ² 27,900 ⁸⁶ 850 | .... | .... | ¹ 13,000 | .... | .... | .... | .... | .... | 126 | .... |
| LG-Caltex—Yosu | 650,000 | 11,000 | .... | .... | ¹ 82,000 | .... | .... | ¹ 64,400 ² 27,000 ⁴ 36,000 ⁵ 180,000 ¹² 30,000 | .... | .... | ¹ 40,000 | .... | 3,000 | ³ 2,500 | .... | .... | .... | 5,400 |
| S-Oil Corp.—Onsan | 520,000 | 160,000 | .... | .... | ¹ 60,000 | ³ 43,000 | ^{c2} 60,000 ^{c3} 11,000 | ¹ 44,000 ² 12,000 ⁴ 21,000 ⁵ 85,000 ⁸ 40,000 ¹⁰ 50,000 ¹² 6,000 | .... | .... | ¹ 20,000 | .... | 9,000 | ¹ 1,600 | ² 198.0 ¹ 57.0 | .... | 900 | 8,500 |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | | |
|---|-----------------------|---------------------|--------|--------------------|--|---------------------|-------------------------|--|---------------------------|--|---------------------|---------------|--------|---|-------------------|------------|--------------|---------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
| SK Corp.—Ulsan | 817,000 | 78,850 | .... | .... | ² 45,000 ³ 49,500 | ¹ 20,070 | ^c 27,000 | ¹ 71,280 ² 4,500 ¹ 59,300 ⁵ 4,000 ¹⁰ 27,000 | ¹ 5,400 | ² 8,055 ³ 3,600 | ¹ 27,900 | .... | 3,500 | ¹ 4,770 ² 65.0 ⁴ 199.0 | ¹ 80.0 | .... | 1,195 | 2,970 |
| Total | 2,576,500 | 315,500 | 19,000 | 0 | 187,000 | 235,870 | 120,000 | 1,068,110 | 5,400 | 0 | 112,555 | 0 | 18,300 | 8,870 | 653.4 | 1,200 | 2,401 | 24,197 |

SPAIN

| | | | | | | | | | | | | | | | | | | |
|--|------------------|----------------|---------------------|---------------------|---------------------|---------------------|----------------------|---|--------------------|----------|--|---------------------|--------------|--------------------|---|--------------|--------------|---------------|
| BP PLC—Castellon de la Plana* | 104,500 | 44,650 | .... | .... | ¹ 27,000 | ¹ 15,300 | .... | ² 50,400 ² 9,700 ² 8,800 | ¹ 2,700 | .... | .... | ³ 17,100 | .... | .... | .... | .... | .... | .... |
| Cia. Espanola de Petroles SA— Cadiz | 240,000 | 40,000 | .... | ² 38,000 | ¹ 40,000 | ¹ 36,000 | .... | ¹ 35,000 ⁵ 54,000 ⁸ 30,000 | ² 5,600 | .... | ¹ 11,500 | ² 5,500 | 2,300 | ² 1,300 | ⁴ 4.8 | .... | 246 | .... |
| Huelva..... | 100,000 | 38,000 | .... | ² 9,000 | ¹ 19,000 | ¹ 17,000 | 17,000 | ⁵ 30,000 ⁸ 15,000 | .... | .... | ¹ 6,100 ² 4,400 ³ 3,800 | .... | 2,600 | ² 900 | ¹ 23.7 ⁴ 9.8 | .... | 115 | 5,500 |
| Tenerife..... | 87,000 | 8,000 | .... | ² 35,000 | .... | ¹ 16,000 | .... | ¹ 16,000 ⁴ 15,000 ⁵ 14,000 | .... | .... | .... | .... | .... | .... | .... | .... | 45 | 4,500 |
| Petronor SA— Somorrostro Vizcaya..... | 220,000 | 89,500 | .... | ² 39,600 | ¹ 43,100 | ¹ 28,900 | ^m 433,100 | ¹ 40,500 ⁵ 66,600 | ² 4,800 | .... | .... | ² 2,600 | .... | ² 1,300 | ¹ 38.7 | .... | 346 | 4,500 |
| Repsol YPF SA— Cartagena Murcia | 100,000 | 14,500 | .... | .... | .... | ¹ 26,000 | .... | ¹ 26,000 ⁵ 31,800 | .... | .... | .... | ¹ 800 | 2,600 | .... | ⁶ 14.0 | .... | 70 | 5,200 |
| La Coruna | 120,000 | 52,000 | ² 19,000 | .... | ¹ 31,600 | ¹ 19,700 | .... | ¹ 19,700 ⁵ 43,400 ⁸ 26,800 | .... | .... | .... | ¹ 1,200 | .... | ² 1,200 | ^a 140.3 | 1,050 | 251 | 1,700 |
| Puertollano, Ciudad Real | 140,000 | 55,500 | ² 24,100 | .... | ¹ 30,600 | ¹ 16,300 | ^m 134,500 | ¹ 16,300 ² 3,000 ⁵ 83,100 | ² 3,400 | .... | .... | ¹ 1,900 | 2,100 | ² 1,400 | ^a 157.1 | 1,340 | 381 | 5,200 |
| Tarragona | 160,000 | 72,000 | .... | ² 27,600 | .... | ³ 22,000 | ^c 143,100 | ¹ 22,000 ⁵ 67,900 | .... | .... | .... | ¹ 3,400 | .... | ² 3,500 | ^a 165.7 ⁵ 14.1 | .... | 243 | .... |
| Total | 1,271,500 | 414,150 | 43,100 | 149,200 | 191,300 | 197,200 | 127,700 | 765,000 | 16,500 | 0 | 25,800 | 32,500 | 9,600 | 9,600 | 268.2 | 2,390 | 1,697 | 26,600 |

SRI LANKA

| | | | | | | | | | | | | | | | | | | |
|--|---------------|---------------|----------|---------------------|----------|--------------------|----------|--|----------|----------|----------|----------|----------|----------|------------|----------|----------|--------------|
| Ceylon Petroleum Corp.— Sapugaskanda* | 47,500 | 22,800 | .... | ² 11,250 | .... | ¹ 4,770 | .... | ¹ 8,897 ⁵ 8,550 | .... | .... | .... | .... | .... | .... | .... | .... | .... | 1,000 |
| Total | 47,500 | 22,800 | 0 | 11,250 | 0 | 4,770 | 0 | 17,447 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 1,000 |

SUDAN

| | | | | | | | | | | | | | | | | | | |
|--|----------------|----------|----------|----------|----------|--------------------|----------|--------------|----------|----------|----------|----------|----------|----------|------------|----------|----------|----------|
| China National Petroleum Corp.— El-Gily | 50,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Concorp—Khartoum..... | 50,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Port Sudan Refinery Ltd.— Port Sudan | 21,700 | .... | .... | .... | .... | ¹ 1,900 | .... | 8,100 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total | 121,700 | 0 | 0 | 0 | 0 | 1,900 | 0 | 8,100 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 |

SURINAME

| | | | | | | | | | | | | | | | | | | |
|--|--------------|--------------|----------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------------|----------|----------|----------|
| Staatsolie Maatschappij Suriname n.v.— Wanica District | 7,000 | 7,000 | .... | ² 2,800 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total | 7,000 | 7,000 | 0 | 2,800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 |

SWEDEN

| | | | | | | | | | | | | | | | | | | |
|---|--------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| AB Nynas Petroleum— Gothenburg | 13,000 | 13,000 | | | | | | | | | | | | | | | | 8,700 |
|---|--------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | | |
|--|-----------------------|------------------------|---------------------|---|-----------------------|--|--|---|---------------------------|--------------------|--------------------|---------------------|-------|------------|---------------------------------------|---------------|-----------------|---------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
| Nynashamn..... | 28,000 | 28,000 | .... | .... | .... | .... | .... | ⁶ 9,400 | .... | .... | .... | .... | .... | .... | ⁴ 8.1 | .... | 22 | 18,760 |
| Preem Raffinaderi AB— Brofjorden-Lysekil ^Q | 210,000 | 64,600 | .... | ² 37,800 | ¹ 29,700 | ³ 32,400 | ^{m4} 48,600 | ² 48,600 ³ 45,900 ¹ 46,000 ³ 14,000 37,000 6,500 | .... | ¹ 3,420 | .... | ³ 14,400 | .... | .... | ⁶ 9.7 | .... | 200 | .... |
| Gothenburg..... | 106,000 | .... | .... | .... | .... | ¹ 20,500 | .... | ¹ 46,000 ³ 14,000 37,000 6,500 | .... | .... | .... | ³ 10,000 | .... | .... | ⁵ 36.0 | .... | 112 | .... |
| Shell Raffinaderi AB— Gothenburg..... | 77,000 | 30,000 | .... | ¹ 22,000 | .... | ¹ 17,000 | .... | ² 28,000 5,000 28,000 | .... | .... | .... | ³ 4,000 | .... | .... | .... | .... | .... | .... |
| Total..... | 434,000 | 135,600 | 0 | 59,800 | 29,700 | 69,900 | 48,600 | 268,400 | 0 | 3,420 | 0 | 28,400 | 0 | 0 | 53.8 | 0 | 334 | 27,460 |
| SWITZERLAND | | | | | | | | | | | | | | | | | | |
| Petroplus—Cressier..... | 60,000 | 24,000 | .... | ¹ 11,000 ² 9,000 | .... | ¹ 16,000 | .... | ¹ 27,000 8,000 27,000 | .... | .... | .... | ³ 3,600 | .... | .... | .... | .... | .... | 5,200 |
| Tamoil SA—Collombey..... | 72,000 | .... | .... | .... | 20,400 | ¹ 12,000 | .... | ¹ 18,900 ⁹ 7,600 ¹² 6,700 | .... | ¹ 3,800 | .... | ³ 6,400 | .... | .... | ⁴ 24.0 ⁶ 4.0 | .... | .... | .... |
| Total..... | 132,000 | 24,000 | 0 | 20,000 | 20,400 | 28,000 | 0 | 95,200 | 0 | 3,800 | 0 | 10,000 | 0 | 0 | 28.0 | 0 | 0 | 5,200 |
| SYRIA | | | | | | | | | | | | | | | | | | |
| Banias Refining Co.—Banias..... | 132,725 | 50,935 | .... | ² 22,689 | .... | ³ 21,430 | ⁴ 26,410 | ¹ 21,480 ⁵ 16,070 | .... | .... | .... | ³ 8,583 | .... | .... | 27.0 | .... | 120 | 2,223 |
| Homs Refinery Co.—Homs..... | 107,140 | 12,200 | ² 18,200 | .... | .... | ³ 9,812 | .... | ¹ 12,665 ⁴ 5,987 ⁵ 21,634 ⁹ 3,050 | .... | .... | .... | ¹ 2,910 | .... | .... | .... | 500 | 30 | .... |
| Total..... | 239,865 | 63,135 | 18,200 | 22,689 | 0 | 31,242 | 26,410 | 80,886 | 0 | 0 | 0 | 11,493 | 0 | 0 | 27.0 | 500 | 150 | 2,223 |
| TANZANIA | | | | | | | | | | | | | | | | | | |
| Tanzanian Italian Petroleum Refining Co. Ltd.—Kigamboni Dar es Salaam..... | 14,900 | .... | .... | ¹ 2,500 | .... | ² 2,500 | .... | ² 4,400 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total..... | 14,900 | 0 | 0 | 2,500 | 0 | 2,500 | 0 | 4,400 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 |
| THAILAND | | | | | | | | | | | | | | | | | | |
| Alliance Refining Co. Ltd.— Map Ta Phut, RayongG..... | 275,000 | 46,835 | .... | .... | ¹ 33,300 | ³ 13,500 | .... | ¹ 13,500 50,580 ² 25,200 67,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Esso Standard Thailand Ltd.— Sriracha..... | 173,500 | 46,000 | .... | .... | ¹ 38,000 | ³ 26,500 | .... | ¹ 45,500 ⁴ 25,000 ⁵ 71,000 | .... | .... | ¹ 9,500 | .... | .... | .... | .... | .... | 160 | 2,500 |
| PTT PLC—Bangchak Bangkok..... | 61,750 | .... | .... | .... | .... | ¹ 9,450 | .... | ¹ 4,950 ² 5,850 ¹³ 16,200 | .... | .... | .... | .... | .... | .... | ¹ 4.7 | .... | .... | .... |
| Thai Oil Co. Ltd.—Sriracha..... | 192,850 | 93,100 | .... | ² 16,983 | ¹ 9,230 | ¹ 20,464 ² 23,496 | ^{c1} 18,460 ^{c2} 24,613 | ¹ 17,213 ² 12,795 ³ 36,360 ⁵ 33,696 ⁶ 33,696 | .... | .... | .... | ¹ 19,596 | .... | .... | ¹ 28.8 | .... | .... | .... |
| Total..... | 703,100 | 185,935 | 0 | 16,983 | 80,530 | 93,410 | 43,073 | 458,540 | 0 | 0 | 9,500 | 19,596 | 0 | 0 | 33.5 | 0 | 160 | 2,500 |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | | |
|---|-----------------------|------------------------|---------------------|-----------------------|-----------------------|---|----------------------------|---|---------------------------|--------------------|--------------------|--------------------|--------------|------------------|--|---------------|-----------------|---------------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
| TRINIDAD AND TOBAGO | | | | | | | | | | | | | | | | | | |
| Petroleum Co. of Trinidad Tobago Ltd.—Pointe-a-Pierre | 165,000 | 130,000 | .... | ² 32,000 | ¹ 28,000 | ¹ 20,000 | ^{m1} 55,000 | ¹ 20,000 ^{4,5} 20,000 | .... | ¹ 1,200 | .... | .... | .... | ¹ 650 | ¹ 30.0 | .... | 60 | .... |
| Total | 165,000 | 130,000 | 0 | 32,000 | 28,000 | 20,000 | 55,000 | 40,000 | 0 | 1,200 | 0 | 0 | 0 | 650 | 30.0 | 0 | 60 | 0 |
| TUNISIA | | | | | | | | | | | | | | | | | | |
| Ste. Tunisienne Industries des Raffinage—Bizerte..... | 34,000 | .... | .... | .... | .... | 3,300 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total | 34,000 | 0 | 0 | 0 | 0 | 3,300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 |
| TURKEY | | | | | | | | | | | | | | | | | | |
| Anadolu Tasfiyehanesi AS— Mersin* | 95,000 | .... | .... | .... | .... | ¹ 13,500 | .... | ¹ 21,600 10,800 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Ersan Petrol Sanayii AS— Narli, Kahramanmaraş..... | 6,000 | 4,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 3,000 |
| Turkish Petroleum Refineries Corp.—Aliaga-Izmir | 226,440 | 75,490 | .... | ² 18,870 | ¹ 15,095 | ¹ 9,810 | ^{c1} 16,360 | ¹ 11,320 ² 11,320 ³ 9,055 ⁴ 11,320 ⁷ 6,790 ¹¹ 7,250 ¹¹ 3,302 | .... | .... | .... | .... | 5,870 | .... | ² 34.4 ⁴ 88.5 | .... | 98 | 472 |
| Batman, Siirt | 22,015 | 2,140 | .... | ¹ 4,720 | .... | ¹ 1,302 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 2,139 |
| Izmit | 251,600 | 89,947 | .... | .... | ¹ 13,840 | ¹ 6,920 ³ 14,000 | ¹ 22,960 | ¹ 20,760 ² 10,065 ³ 3,150 ⁴ 27,050 ⁷ 6,290 ⁸ 39,000 ¹¹ 27,675 ¹³ 5,032 | .... | .... | .... | ³ 5,030 | .... | .... | ¹ 50.7 | 180 | 137 | 9,435 |
| Kirikkale | 113,220 | 30,190 | .... | .... | .... | ¹ 20,130 | ^{c1} 14,500 | ¹ 20,130 ⁵ 15,096 | .... | .... | .... | ³ 9,025 | .... | .... | ² 22.1 ⁴ 21.8 | .... | 80 | 5,170 |
| Total | 714,275 | 201,767 | 0 | 23,590 | 28,935 | 65,662 | 53,820 | 265,005 | 0 | 0 | 0 | 14,055 | 5,870 | 0 | 217.5 | 180 | 315 | 20,216 |
| TURKMENISTAN | | | | | | | | | | | | | | | | | | |
| Ministry of Oil Gas—Chardzou..... | 120,493 | 50,745 | .... | .... | .... | ¹ 24,466 | .... | ¹ 24,900 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Turkmenneftgas— Turkmenbashi | 116,477 | 40,900 | ² 28,568 | .... | ¹ 15,151 | ¹ 8,074 ³ 20,000 | .... | ¹ 38,600 | ¹ 1,028 | ¹ 1,223 | .... | .... | 2,000 | .... | .... | 1,040 | .... | 415 |
| Total | 236,970 | 91,645 | 28,568 | 0 | 15,151 | 52,540 | 0 | 63,500 | 1,028 | 1,223 | 0 | 0 | 2,000 | 0 | 0.0 | 1,040 | 0 | 415 |
| UKRAINE | | | | | | | | | | | | | | | | | | |
| JSC Khersonnefte-Perperabotka— Kherson | 137,630 | 43,000 | ² 12,000 | .... | .... | ¹ 16,637 | .... | ¹ 13,041 | .... | .... | .... | .... | .... | .... | .... | 340 | .... | 5,811 |
| Lukoil—Odessa | 78,321 | 18,795 | .... | .... | .... | ¹ 10,276 | .... | ¹ 11,500 28,767 | .... | .... | .... | .... | .... | .... | .... | .... | .... | 3,155 |
| TNK-Ukraina—Lisichansk..... | 175,000 | 115,600 | .... | .... | ¹ 40,500 | ¹ 56,761 | .... | ¹ 57,500 79,014 ⁸ 42,192 | .... | .... | ² 1,870 | .... | .... | ¹ 125 | ¹ 21.5 | .... | 90 | .... |
| Ukraine Oil Co.—Drogobich | 78,321 | 25,185 | ³ 3,195 | ¹ 7,330 | .... | ¹ 8,074 | .... | ¹ 8,200 | .... | .... | .... | .... | .... | .... | .... | 115 | .... | 3,819 |
| Ukrtatnafta—Kremenchug | 360,000 | 119,997 | .... | .... | ¹ 29,600 | ² 44,400 | ³ 7,200 | ⁵ 65,999 | .... | .... | ¹ 1,594 | .... | 500 | .... | .... | .... | 86 | .... |
| Nadvornaja | 50,487 | 13,720 | ² 6,954 | ¹ 9,961 | .... | ¹ 8,563 | .... | ¹ 8,800 | .... | .... | .... | .... | .... | .... | .... | 250 | .... | .... |
| Total | 879,759 | 336,297 | 22,149 | 17,291 | 70,100 | 144,711 | 7,200 | 315,013 | 0 | 0 | 3,464 | 0 | 500 | 125 | 21.5 | 705 | 176 | 12,785 |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | | |
|---|-----------------------|------------------------|---------------------|-----------------------|-----------------------|--|----------------------------|--|---------------------------|--------------------|---|---------------------|---------------|---|---------------------|---------------|-----------------|---------------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
| UNITED ARAB EMIRATES | | | | | | | | | | | | | | | | | | |
| Abu Dhabi | | | | | | | | | | | | | | | | | | |
| Abu Dhabi National Oil Co.— | | | | | | | | | | | | | | | | | | |
| Ruwais | 145,000 | 56,680 | .... | .... | ¹ 19,150 | .... | ^c 131,050 | 21,889 39,248 21,850 | .... | .... | .... | .... | .... | .... | ¹ 53.0 | .... | .... | .... |
| Umm Al-Nar..... | 88,000 | .... | .... | .... | .... | ³ 14,000 | .... | ² 23,500 22,500 | .... | .... | .... | .... | .... | .... | .... | .... | 35 | .... |
| Total | 233,000 | 56,680 | 0 | 0 | 19,150 | 14,000 | 31,050 | 128,987 | 0 | 0 | 0 | 0 | 0 | 0 | 53.0 | 0 | 35 | 0 |
| Dubai | | | | | | | | | | | | | | | | | | |
| Emirates National Oil Co.— | | | | | | | | | | | | | | | | | | |
| Jebel Ali | 120,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 6 | .... |
| Total | 120,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 6 | 0 |
| Fujairah | | | | | | | | | | | | | | | | | | |
| Metro Oil Corp..... | 90,000 | 17,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total | 90,000 | 17,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 |
| Sharjah | | | | | | | | | | | | | | | | | | |
| Sharjah Oil Refining Co. Ltd.— | | | | | | | | | | | | | | | | | | |
| Hamriyah..... | 71,250 | 19,190 | .... | .... | ¹ 15,200 | ¹ 11,875 | .... | ² 15,580 ⁴ 2,470 ⁶ 11,590 | ² 1,140 | ¹ 1,900 | .... | .... | .... | .... | ⁷ 5.8 | .... | 16 | 700 |
| Total | 71,250 | 19,190 | 0 | 0 | 15,200 | 11,875 | 0 | 29,640 | 1,140 | 1,900 | 0 | 0 | 0 | 0 | 5.8 | 0 | 16 | 700 |
| UNITED KINGDOM | | | | | | | | | | | | | | | | | | |
| England | | | | | | | | | | | | | | | | | | |
| BP PLC—Coryton Essex* | 163,400 | 94,050 | .... | .... | 61,200 | ³ 34,200 | .... | ¹ 56,700 49,500 | ² 18,900 | .... | .... | ³ 31,500 | 9,900 | .... | .... | .... | .... | 2,430 |
| ConocoPhillips— | | | | | | | | | | | | | | | | | | |
| South Killingholme*..... | 221,000 | 178,790 | ³ 64,800 | ¹ 56,475 | ¹ 49,500 | ¹ 55,800 | .... | ⁵ 42,300 ⁷ 132,300 ⁹ 27,000 ¹² 26,550 ¹³ 25,920 | ² 12,600 | .... | ¹⁴ 0,050 ² 2,340 | ³ 14,400 | .... | .... | ⁴ 17.5 | 2,400 | 142 | .... |
| Eastham Refinery Ltd.— | | | | | | | | | | | | | | | | | | |
| Eastham..... | 27,000 | 25,500 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 19,200 |
| ExxonMobil Refining | | | | | | | | | | | | | | | | | | |
| Supply Co.—Fawley | 321,000 | 142,500 | .... | .... | ¹ 72,000 | ¹ 40,000 ² 23,000 | .... | ¹ 98,000 ⁴ 41,000 ⁵ 94,000 ¹⁰ 28,000 ¹¹ 11,500 | .... | ¹ 9,500 | .... | ³ 22,000 | 11,200 | .... | ⁶ 48.0 | .... | 275 | 5,500 |
| Petroplus International NV— | | | | | | | | | | | | | | | | | | |
| Teesside..... | 100,000 | .... | .... | .... | .... | .... | .... | ⁵ 24,000 | .... | .... | .... | .... | .... | .... | .... | .... | 4 | .... |
| Shell U.K. Ltd.—Stanlow..... | 245,000 | 46,000 | .... | .... | 66,000 | ¹ 29,000 ³ 30,000 | .... | ¹ 59,000 ² 14,000 57,000 | ² 11,000 | .... | ¹ 9,000 | .... | 4,500 | .... | .... | .... | .... | .... |
| Total SA Lindsey Oil | | | | | | | | | | | | | | | | | | |
| Refinery Ltd.—Killingholme | | | | | | | | | | | | | | | | | | |
| South Humberside | 225,545 | 97,626 | .... | ² 26,641 | ¹ 48,514 | ¹ 34,187 | .... | ¹ 49,715 ⁴ 3,853 ⁵ 52,882 | ² 7,803 | ¹ 1,985 | .... | .... | .... | ¹² 603 ³ 1,307 | .... | .... | 130 | 6,703 |
| Total | 1,302,945 | 584,466 | 64,800 | 83,116 | 297,214 | 246,187 | 0 | 893,220 | 50,303 | 11,485 | 15,390 | 67,900 | 25,600 | 3,910 | 65.5 | 2,400 | 551 | 33,833 |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | | Asphalt |
|---|-----------------------|------------------------|---------------------|-----------------------|-----------------------|------------------------|--|--|---------------------------|--------------------|--------------------|--|--------------|--------------------|---|---------------|-----------------|---------------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | |
| Scotland | | | | | | | | | | | | | | | | | | |
| AB Nynas Petroleum—Dundee | 12,000 | 12,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 8,000 |
| BP PLC —Grangemouth* | 195,700 | 64,600 | .... | .... | .... | ¹ 39,600 | ¹ 36,000 | ² 56,700 | ² 4,500 | .... | .... | .... | .... | .... | ¹ 49.0 | .... | .... | .... |
| Total | 207,700 | 76,600 | 0 | 0 | 0 | 39,600 | 36,000 | 56,700 | 4,500 | 0 | 0 | 0 | 0 | 0 | 49.0 | 0 | 0 | 8,000 |
| Wales | | | | | | | | | | | | | | | | | | |
| ChevronTexaco Corp. — Pembroke, Dyfed | 210,000 | 105,000 | .... | ² 26,000 | ¹ 90,000 | ³ 39,000 | .... | ¹ 39,000 ² 49,500 ⁵ 60,000 | ² 32,500 | .... | .... | ¹ 19,900 ³ 12,000 | .... | .... | .... | .... | 160 | .... |
| Total SA—Milford Haven | 104,745 | 53,342 | .... | .... | ¹ 31,192 | ¹ 16,883 | .... | ¹ 27,862 ⁵ 71,364 ⁷ 1,000 ¹³ 6,800 | ² 5,920 | ² 1,994 | .... | ³ 15,372 | .... | .... | .... | .... | 22 | .... |
| Total | 314,745 | 158,342 | 0 | 26,000 | 121,192 | 55,883 | 0 | 325,526 | 38,420 | 1,994 | 0 | 47,272 | 0 | 0 | 0.0 | 0 | 182 | 0 |
| UNITED STATES | | | | | | | | | | | | | | | | | | |
| ALABAMA | | | | | | | | | | | | | | | | | | |
| Hunt Refining Co.—Tuscaloosa* ... | 43,225 | 14,250 | ² 12,600 | .... | .... | ¹ 6,480 | .... | ¹ 9,000 ⁴ 1,800 ⁵ 10,800 ⁸ 9,900 | .... | .... | .... | .... | .... | .... | ^a 16.1 ⁴ 7.0 | 500 | 80 | 10,800 |
| Shell Chemical Co.—Saraland | 85,000 | 28,000 | .... | .... | .... | ¹ 22,500 | ⁴ 30,000 | ¹ 25,000 ⁹ 18,000 | .... | .... | .... | ³ 7,500 | .... | .... | ⁶ 6.0 | .... | 20 | .... |
| Trigeant Petroleum— Mobile Bay ^S | 20,000 | 15,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total | 148,225 | 57,250 | 12,600 | 0 | 0 | 28,980 | 30,000 | 74,500 | 0 | 0 | 0 | 7,500 | 0 | 0 | 19.1 | 500 | 100 | 10,800 |
| ALASKA | | | | | | | | | | | | | | | | | | |
| BP PLC—Kuparuk | 14,500 | .... | ³ 14,500 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Prudhoe Bay | 15,000 | .... | ³ 15,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Flint Hills Resources — North Pole* ^M | 209,000 | 7,600 | .... | .... | .... | .... | .... | .... | .... | .... | ¹ 2,520 | .... | .... | .... | .... | .... | .... | 2,070 |
| Petro Star Inc.—North Pole | 17,500 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Valdez | 48,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Tesoro Corp.—Kenai | 72,000 | 19,000 | .... | .... | .... | ¹ 12,000 | ^c 12,500 | ¹ 12,500 | .... | .... | .... | ³ 4,000 | .... | .... | ^a 13.0 | .... | 19 | 1,000 |
| Total | 376,000 | 26,600 | 29,500 | 0 | 0 | 12,000 | 12,500 | 12,500 | 0 | 0 | 2,520 | 4,000 | 0 | 0 | 13.0 | 0 | 19 | 3,070 |
| ARKANSAS | | | | | | | | | | | | | | | | | | |
| Cross Oil Refining Co. Inc.— Smackover | 7,000 | 3,000 | .... | .... | .... | .... | .... | ¹ 14,500 | .... | .... | .... | .... | 4,500 | .... | ¹ 2.5 | .... | .... | 1,500 |
| Lion Oil Co.—El Dorado | 68,000 | 30,500 | .... | .... | ¹ 19,500 | ³ 14,000 | .... | ¹ 20,000 ⁵ 8,500 ⁸ 21,000 | ¹ 4,900 | .... | .... | ³ 6,500 | .... | .... | .... | .... | 142 | 11,800 |
| Total | 75,000 | 33,500 | 0 | 0 | 19,500 | 14,000 | 0 | 54,000 | 4,900 | 0 | 0 | 6,500 | 4,500 | 0 | 2.5 | 0 | 142 | 13,300 |
| CALIFORNIA | | | | | | | | | | | | | | | | | | |
| BP PLC—Carson* | 247,000 | 123,500 | ² 58,500 | .... | ¹ 86,400 | ¹ 46,800 | ^c 138,700 | 81,000 90,000 | ¹ 15,000 | ¹ 2,800 | .... | ¹ 21,600 ² 20,000 | .... | ¹ 2,700 | ¹ 105.0 | 2,400 | 350 | .... |
| ChevronTexaco Corp.— El Segundo | 260,000 | 120,000 | ² 64,000 | .... | ¹ 62,000 | ³ 40,000 | ^c 145,000 | ¹ 57,000 ⁴ 15,000 ⁵ 34,000 ⁷ 6,000 ⁸ 68,000 ¹² 18,000 | ¹ 21,000 | .... | .... | ¹ 3,800 ³ 19,000 | .... | .... | ¹ 68.0 ² 71.0 | 3,447 | 406 | .... |
| Richmond | 225,000 | 110,000 | .... | .... | ¹ 65,000 | ¹ 45,000 | ^c 141,000 ^c 28,000 ^c 40,000 | ¹ 50,000 ⁴ 50,000 ⁵ 25,000 ¹¹ 19,000 | ¹ 20,000 | ¹ 1,800 | .... | ¹ 3,900 ² 25,000 | 14,000 | .... | ¹ 145.0 ⁴ 10.0 | .... | 350 | .... |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | Production capacity, b/cd | | | | | | | | | | | | |
|---|-----------------------|------------------------|--|-----------------------|---|--|----------------------------|--|---------------------|--------------------|-----------|---|--------|------------|---|---------------|-----------------|---------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
| ConocoPhillips—Los Angeles (Carson and Wilmington) | 138,700 | 78,000 | ² 48,000 | .... | ¹ 45,000 | ¹ 35,200 | ^c 124,750 | ¹ 50,850 ⁷ 35,000 ⁸ 50,000 | ¹ 14,200 | .... | .... | ¹ 5,300 ² 12,200 | .... | .... | ¹ 100.8 | 2,000 | 340 | .... |
| Rodeo and Santa Maria | 106,000 | 78,300 | ² 47,500 | .... | .... | ¹ 30,600 | ^c 134,200 | ¹ 22,100 ⁶ 14,900 ⁷ 9,000 | .... | .... | .... | ³ 9,000 | .... | .... | ¹ 86.3 ⁴ 2.6 | 2,370 | 484 | .... |
| ExxonMobil Refining Supply Co.—Torrance | 149,500 | 98,500 | ² 52,500 | .... | ¹ 96,000 | ¹ 19,000 | ^c 120,500 | ¹ 23,500 ⁷ 17,500 ⁸ 101,500 | ² 23,500 | .... | .... | .... | .... | .... | ¹ 135.5 ⁶ 14.0 | 3,215 | 400 | .... |
| Kern Oil Refining Co.— Bakersfield..... | 25,000 | .... | .... | .... | .... | ¹ 3,000 | .... | ¹ 4,500 ³ 2,000 ⁵ 6,500 | .... | .... | .... | .... | .... | .... | .... | .... | 5 | .... |
| Paramount Petroleum Corp.— Long Beach | 52,000 | 30,000 | .... | .... | .... | ¹ 10,000 | .... | ² 9,500 ⁵ 8,000 ⁷ 8,000 ⁸ 10,800 | .... | .... | .... | .... | .... | .... | .... | 38 | .... | 16,500 |
| San Joaquin Refining Co. Inc.— Bakersfield..... | 24,300 | 14,300 | .... | ² 10,000 | .... | .... | .... | ⁶ 3,000 ⁹ 2,000 | .... | .... | .... | .... | 4,000 | .... | ^a 13.5 ⁴ 3.5 | .... | 6 | 5,000 |
| Shell Oil Products US— Bakersfield..... | 65,000 | 39,000 | ² 22,000 | .... | .... | ¹ 14,700 | ^c 123,500 | ¹ 12,500 ¹³ 9,400 | .... | .... | .... | .... | .... | .... | ¹ 24.7 ⁶ 5.0 | 1,200 | 103 | .... |
| Martinez..... | 157,600 | 92,200 | ² 25,300 ³ 21,600 | .... | ¹ 69,700 ² 1,000 | ² 29,400 | ^c 136,800 | ¹ 27,100 ³ 19,200 ⁷ 23,300 ⁸ 73,300 ¹¹ 8,600 ¹³ 39,900 | ¹ 11,000 | ² 2,600 | .... | ³ 14,500 | .... | .... | ¹ 101.3 | 1,181 | 402 | 15,000 |
| Wilmington | 100,000 | 62,000 | ² 40,000 | .... | ¹ 36,000 | ¹ 32,500 | ^c 132,000 | ¹ 35,750 ³ 12,500 ⁴ 15,000 ⁸ 37,000 | ¹ 12,000 | .... | .... | ¹ 7,500 | .... | .... | ^a 155.0 ⁴ 55.0 | 1,615 | 268 | .... |
| Tesoro Corp.—Golden Eagle | 161,000 | 144,000 | ¹ 42,000 | .... | ¹ 66,500 | ¹ 20,000 ³ 22,000 | ^c 132,000 | ¹ 23,000 ³ 9,000 ⁵ 32,000 ⁶ 14,000 ⁸ 62,000 ¹² 27,000 ¹³ 5,500 | ¹ 14,000 | .... | .... | .... | .... | .... | ¹ 74.0 ^a 131.0 | 1,500 | 140 | .... |
| Valero Energy Corp.—Benicia | 139,500 | 78,500 | ¹ 27,000 | .... | ¹ 69,000 | ² 36,000 | ^c 134,000 | ¹ 29,000 ² 44,000 ³ 11,000 ⁴ 13,500 ⁷ 11,500 ⁹ 37,000 ¹³ 21,000 | ¹ 15,000 | ² 2,500 | .... | .... | .... | .... | ¹ 131.5 | 1,080 | 275 | 5,000 |
| Wilmington | 78,000 | 45,000 | ¹ 28,000 | .... | ¹ 54,000 | ³ 16,500 | .... | ¹ 32,000 ⁵ 30,000 ⁸ 64,000 ¹² 15,000 | ² 14,500 | .... | .... | ¹ 10,200 | .... | .... | ^a 150.0 | 1,800 | 250 | .... |
| Total | 1,928,600 | 1,113,300 | 476,400 | 10,000 | 650,600 | 400,700 | 430,450 | 1,685,700 | 160,200 | 9,700 | 0 | 152,000 | 18,000 | 2,700 | 1,272.7 | 21,846 | 3,778 | 41,500 |
| COLORADO | | | | | | | | | | | | | | | | | | |
| Suncor Energy Products— Commerce City | 60,000 | 25,000 | .... | .... | ¹ 19,000 | ¹ 9,600 | .... | ¹ 9,600 ⁵ 12,500 ⁸ 12,000 | .... | ¹ 2,600 | .... | .... | .... | .... | .... | .... | 90 | 10,500 |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | | |
|---|-----------------------|------------------------|---------------------|-----------------------|-----------------------|--|----------------------------|---|---------------------------|--------------------|---------------------|---------------------|-------|--|--|---------------|-----------------|---------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
| Valero Energy Corp.—Denver..... | 28,000 | 9,500 | .... | .... | ¹ 8,000 | ¹ 9,000 | .... | ¹ 9,000 | .... | ¹ 900 | .... | .... | .... | .... | .... | .... | 4 | .... |
| Total | 88,000 | 34,500 | 0 | 0 | 27,000 | 18,600 | 0 | 43,100 | 0 | 3,500 | 0 | 0 | 0 | 0 | 0.0 | 0 | 94 | 10,500 |
| DELAWARE | | | | | | | | | | | | | | | | | | |
| Premcor Inc.—Delaware City ^C | 175,000 | 91,000 | ¹ 47,000 | .... | ¹ 73,000 | ³ 39,000 | ^{c2} 18,000 | ¹ 45,000 ² 15,000 ⁴ 15,000 ⁷ 44,000 ¹² 15,000 | ¹ 8,190 | ¹ 5,040 | ¹ 1,260 | ¹ 6,000 | .... | ¹ 2,192 ³ 2,322 | ¹ 38.0 ⁴ 22.0 | 1,700 | 514 | .... |
| Total | 175,000 | 91,000 | 47,000 | 0 | 73,000 | 39,000 | 18,000 | 134,000 | 8,190 | 5,040 | 1,260 | 6,000 | 0 | 4,514 | 60.0 | 1,700 | 514 | 0 |
| HAWAII | | | | | | | | | | | | | | | | | | |
| ChevronTexaco Corp.—Kapolei..... | 54,000 | 30,000 | .... | .... | ¹ 21,000 | .... | .... | ¹³ 3,000 | ¹ 4,000 | ² 1,000 | .... | ¹ 1,200 | .... | .... | ¹ 2.0 | .... | .... | 1,300 |
| Tesoro Hawaii Corp.—Kapolei..... | 93,700 | 39,500 | .... | ² 11,500 | .... | ¹ 12,800 | ^{c1} 17,600 | ¹ 12,800 | .... | .... | .... | .... | .... | .... | ^{a2} 18.0 | .... | 34 | 1,000 |
| Total | 147,700 | 69,500 | 0 | 11,500 | 21,000 | 12,800 | 17,600 | 15,800 | 4,000 | 1,000 | 0 | 1,200 | 0 | 0 | 20.0 | 0 | 34 | 2,300 |
| ILLINOIS | | | | | | | | | | | | | | | | | | |
| Citgo Petroleum Corp.— Lemont* | 158,650 | 71,250 | ² 36,000 | .... | ¹ 60,300 | ¹ 28,080 | .... | ¹ 44,100 ³ 3,960 ⁵ 31,950 ⁷ 13,500 ¹² 9,900 | ² 18,900 | .... | ¹ 6,030 | .... | .... | .... | ¹ 4.5 | 2,102 | 344 | .... |
| ConocoPhillips—Wood River..... | 306,000 | 117,800 | ¹ 16,200 | .... | ¹ 90,000 | ¹ 15,000 ² 70,000 | ^{c1} 28,500 | ¹ 63,000 ² 18,000 ⁸ 25,500 ¹² 25,200 ¹³ 70,600 | ¹ 20,500 | .... | ¹ 3,500 | .... | .... | .... | ¹ 51.5 | 1,250 | 435 | 40,000 |
| ExxonMobil Refining Supply Co.—Joliet..... | 238,000 | 114,000 | ² 55,500 | .... | ¹ 93,000 | ³ 49,500 | .... | ¹ 88,000 ² 19,500 ⁷ 84,500 ¹² 55,000 | ² 27,000 | .... | .... | .... | .... | .... | .... | 3,330 | 660 | 10,500 |
| Marathon Ashland Petroleum LLC—Robinson..... | 192,000 | 61,900 | ² 27,500 | .... | ¹ 50,400 | ² 34,200 ³ 37,100 | ¹ 25,700 | ¹ 57,000 ⁵ 66,500 | ² 12,400 | .... | .... | ³ 13,300 | .... | .... | .... | .... | 202 | .... |
| Total | 894,650 | 364,950 | 135,200 | 0 | 293,700 | 233,880 | 54,200 | 676,210 | 78,800 | 0 | 9,530 | 13,300 | 0 | 0 | 56.0 | 6,682 | 1,641 | 50,500 |
| INDIANA | | | | | | | | | | | | | | | | | | |
| BP PLC—Whiting* | 399,000 | 242,250 | ² 31,500 | .... | ¹ 148,500 | ² 79,200 | .... | ¹ 106,200 ⁷ 161,100 ¹³ 24,700 ^{92,200} | ¹ 30,600 | .... | ¹ 16,200 | ³ 32,400 | .... | ¹ 3,800 | ¹ 29.5 | 1,690 | 449 | 60,000 |
| Countrymark Cooperative Inc.—Mount Vernon | 23,500 | 8,000 | .... | .... | ¹ 7,850 | ³ 6,500 | .... | ² 10,000 | ² 2,000 | .... | .... | ³ 2,200 | .... | .... | .... | .... | .... | .... |
| Total | 422,500 | 250,250 | 31,500 | 0 | 156,350 | 85,700 | 0 | 394,200 | 32,600 | 0 | 16,200 | 34,600 | 0 | 3,800 | 29.5 | 1,690 | 449 | 60,000 |
| KANSAS | | | | | | | | | | | | | | | | | | |
| Coffeyville Resources R&M LLC—Coffeyville ^K | 100,000 | 50,000 | ² 19,000 | .... | ¹ 29,100 | ¹ 17,000 | .... | ² 29,000 ⁴ 7,000 ⁷ 25,000 | ² 9,200 | .... | .... | ³ 8,500 | .... | .... | .... | 890 | .... | .... |
| Frontier Oil Corp.—El Dorado | 110,000 | 39,000 | ² 18,000 | .... | ¹ 37,200 | ¹ 29,500 | .... | ¹ 24,000 ² 18,000 ⁴ 12,400 ⁵ 23,500 ⁸ 45,000 | ² 12,500 | .... | ¹ 3,000 | ³ 12,500 | .... | .... | ¹ 6.0 ³ 12.0 | 860 | 250 | .... |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | | |
|--|-----------------------|------------------------|----------------------|-----------------------|-----------------------|--|----------------------------|--|---------------------------|--------------------|---|--|--------|--------------------|---|---------------|-----------------|---------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
| National Cooperative Refining Assoc.—McPherson | 79,000 | 31,600 | ² 20,400 | .... | ¹ 20,900 | ³ 20,900 | .... | ¹ 21,800 ² 10,200 ⁵ 25,700 ⁷ 9,600 ⁸ 11,200 | ² 6,300 | .... | .... | ¹ 3,300 ³ 10,200 | .... | .... | .... | 612 | 81 | .... |
| Total | 289,000 | 120,600 | 57,400 | 0 | 87,200 | 67,400 | 0 | 262,400 | 28,000 | 0 | 3,000 | 34,500 | 0 | 0 | 18.0 | 2,362 | 331 | 0 |
| KENTUCKY | | | | | | | | | | | | | | | | | | |
| Marathon Ashland Petroleum LLC—Catlettsburg | 222,000 | 109,300 | .... | .... | ¹ 90,300 | ³ 47,500 | .... | ¹ 48,500 ² 6,200 ³ 5,200 ⁵ 71,300 ⁸ 90,300 ¹⁰ 10,900 | ² 13,300 | .... | ¹ 3,500 ⁴ 7,600 | ³ 12,400 | 8,900 | .... | .... | .... | 448 | 25,500 |
| Somerset Refinery Inc.— Somerset | 5,500 | .... | .... | .... | .... | ² 1,500 | .... | ¹ 1,500 ⁴ 500 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total | 227,500 | 109,300 | 0 | 0 | 90,300 | 49,000 | 0 | 234,400 | 13,300 | 0 | 11,100 | 12,400 | 8,900 | 0 | 0.0 | 0 | 448 | 25,500 |
| LOUISIANA | | | | | | | | | | | | | | | | | | |
| Calcasieu Refining Co.— Lake Charles..... | 15,680 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Calumet Lubricants Co.— Cotton Valley..... | 8,500 | .... | .... | .... | .... | .... | .... | ¹ 34,000 | .... | .... | .... | .... | .... | .... | ^a 12.5 ⁴ 2.5 | .... | .... | .... |
| Princeton | 9,500 | 8,500 | .... | .... | .... | .... | ⁴ 8,000 | .... | .... | .... | .... | .... | 7,000 | .... | ^a 14.5 ⁴ 4.5 | .... | 3 | .... |
| Shreveport | 15,000 | 10,000 | .... | .... | .... | .... | ^c 47,200 | ¹ 31,100 | .... | .... | .... | .... | 7,000 | .... | ^a 16.1 ⁴ 6.1 | .... | 15 | .... |
| Cit-Con Oil Corp.—Lake Charles ... | .. | 36,100 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 8,550 | .... | .... | .... | .... | .... |
| Citgo Petroleum Corp.— Lake Charles* | 308,085 | 79,800 | ² 88,200 | .... | ¹ 126,000 | ¹ 42,300 ³ 52,200 | ^c 137,800 | ¹ 103,500 ² 6,300 ⁴ 26,100 ⁵ 32,400 ⁸ 64,800 | ¹ 20,700 | .... | ¹ 13,500 | ³ 28,800 | 9,900 | ¹ 3,150 | ^a 147.7 ⁶ 10.8 | 3,870 | 567 | .... |
| ConocoPhillips—Belle Chasse | 247,000 | 92,000 | ² 25,200 | .... | ¹ 104,000 | ¹ 42,000 | .... | ¹ 47,000 ⁷ 65,000 ¹³ 32,400 | ² 38,000 | .... | ¹ 24,600 ² 7,200 | .... | .... | .... | ⁷ 10.4 | 800 | 70 | .... |
| Westlake | 239,000 | 106,200 | ² 57,800 | .... | ¹ 44,800 | ³ 33,000 | ^c 29,000 | ¹ 35,600 ⁴ 21,800 ⁵ 49,100 ⁶ 4,000 ⁷ 35,900 | ¹ 7,500 | ¹ 1,000 | .... | .... | .... | .... | ⁴ 90.5 | 3,600 | 349 | .... |
| ExxonMobil Refining Supply Co.—Baton Rouge..... | 493,500 | 223,000 | ² 112,500 | .... | ¹ 229,000 | ² 75,500 | ^c 124,000 | ¹ 75,500 ² 104,000 ⁷ 95,000 ¹¹ 21,000 ¹² 94,000 ¹³ 46,000 | ¹ 36,000 | ¹ 9,500 | .... | .... | 16,000 | ¹ 7,000 | ⁴ 12.0 ⁶ 12.0 | 5,000 | 690 | .... |
| Chalmette | 187,000 | 107,000 | ² 33,000 | .... | ¹ 68,000 | ¹ 28,000 ³ 18,000 | ^c 18,500 | ¹ 39,500 ⁷ 27,000 ⁸ 61,500 | ² 12,500 | .... | ¹ 10,000 | ³ 9,500 | .... | .... | .... | 2,050 | 920 | .... |
| Marathon Ashland Petroleum LLC—Garyville..... | 232,000 | 118,800 | ² 32,800 | .... | ¹ 115,000 | ³ 46,600 | .... | ¹ 47,500 ⁵ 62,700 ⁸ 100,700 | ² 29,500 | .... | .... | ¹ 22,800 ³ 19,000 | .... | .... | .... | 2,500 | 1,176 | 39,900 |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | | |
|--|-----------------------|------------------------|---------------------|-----------------------|-----------------------|--|----------------------------|---|---------------------------|--|---------------------|--|--------|--|---------------------------------------|---------------|-----------------|---------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
| Motiva Enterprises LLC— Convent | 235,000 | 100,000 | .... | .... | ¹ 85,000 | ¹ 36,000 | ^{c2} 45,000 | ¹ 40,000 ⁴ 25,000 ⁵ 63,000 ⁸ 34,000 ¹² 48,000 | ¹ 13,050 | ² 3,600 | .... | ³ 11,250 | .... | ¹² 2,250 ³² 2,500 | ^{a1} 58.0 | .... | 700 | .... |
| Norco | 220,000 | 78,000 | ² 21,300 | .... | ¹ 105,000 | ¹ 19,100 ²³ 8,200 | ^{c1} 31,500 | ¹ 38,000 ⁵ 35,300 ¹² 49,500 | ¹ 14,800 | .... | .... | .... | .... | ¹ 7,500 | ¹ 49.4 | 900 | 140 | .... |
| Murphy Oil USA Inc.—Meraux..... | 125,000 | 50,000 | .... | .... | ¹ 37,000 | .... | .... | ²³ 5,000 ⁷ 52,000 ⁹ 12,000 ¹³ 24,750 | ² 85,000 | .... | .... | .... | .... | .... | .... | .... | 1,800 | .... |
| Placid Refining Co. LLC— Port Allen..... | 48,000 | 20,000 | .... | .... | ¹ 19,000 | ¹ 9,700 | .... | ² 9,700 ⁷ 12,000 | ² 3,800 | .... | .... | .... | .... | .... | .... | .... | 28 | .... |
| Shell Chemical Co.—St. Rose..... | 55,000 | 28,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Valero Energy Corp.— Krotz Springs | 80,000 | 35,000 | .... | .... | ¹ 33,000 | ¹ 12,000 | .... | ¹ 13,500 ²³ 8,000 | .... | ¹ 2,100 | .... | ³ 3,800 | .... | ¹ 1,700 | .... | .... | 20 | .... |
| Norco | 185,000 | 200,000 | ² 70,000 | .... | ¹ 100,000 | ³ 25,000 | .... | ²³ 5,000 ⁵ 48,000 ⁸ 35,000 ¹² 12,000 | ¹ 19,000 | .... | .... | .... | .... | .... | .... | 4,083 | 457 | .... |
| Total | 2,703,265 | 1,292,400 | 440,800 | 0 | 1,065,800 | 477,600 | 201,000 | 1,928,950 | 279,850 | 16,200 | 55,300 | 95,150 | 48,450 | 24,100 | 317.0 | 22,803 | 6,935 | 39,900 |
| MICHIGAN | | | | | | | | | | | | | | | | | | |
| Marathon Ashland Petroleum LLC—Detroit | 74,000 | 36,100 | .... | .... | ¹ 27,600 | ¹ 19,000 | .... | ¹ 14,300 ⁴ 6,700 ⁵ 11,300 ⁸ 16,500 | .... | .... | .... | .... | .... | .... | .... | .... | 147 | 20,900 |
| Total | 74,000 | 36,100 | 0 | 0 | 27,600 | 19,000 | 0 | 48,800 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 147 | 20,900 |
| MINNESOTA | | | | | | | | | | | | | | | | | | |
| Flint Hills Resources— Rosemount* | 257,213 | 162,450 | ² 55,080 | .... | ¹ 69,660 | ² 10,530 ³ 29,160 | .... | ¹ 41,310 ² 31,590 ⁴ 17,820 ⁵ 64,800 ⁶ 4,860 ⁸ 85,050 | ¹ 9,882 | ¹ 891 ² 2,916 | .... | ² 14,580 | .... | .... | ¹ 89.1 ⁵ 8.1 | 3,240 | 729 | 20,250 |
| Marathon Ashland Petroleum LLC—St. Paul Park..... | 70,000 | 30,400 | .... | .... | ¹ 24,700 | ¹ 20,000 | .... | ¹ 20,900 ⁴ 6,700 ⁵ 21,000 ⁸ 24,700 | ² 5,200 | .... | .... | ¹ 1,900 ³ 6,700 | .... | .... | ¹ 9.5 | .... | 103 | 11,400 |
| Total | 327,213 | 192,850 | 55,080 | 0 | 94,360 | 59,690 | 0 | 318,730 | 15,082 | 3,807 | 0 | 23,180 | 0 | 0 | 106.7 | 3,240 | 832 | 31,650 |
| MISSISSIPPI | | | | | | | | | | | | | | | | | | |
| ChevronTexaco Corp.— Pascagoula | 325,000 | 240,000 | ² 92,000 | .... | ¹ 63,000 | ¹ 71,000 | ^{c1} 58,000 | ¹ 47,000 ⁴ 28,000 ⁵ 32,000 ⁹ 87,500 ¹³ 44,000 | ¹ 14,800 | ² 2,100 | ¹ 19,000 | .... | .... | .... | ¹ 205.0 | 6,440 | 1,067 | .... |
| Ergon Refining Inc.—Vicksburg..... | 23,000 | 10,200 | .... | .... | .... | ¹ 3,600 | .... | ⁹ 12,000 | .... | .... | .... | .... | 11,300 | .... | ¹ 7.7 | .... | .... | 9,600 |
| Total | 348,000 | 250,200 | 92,000 | 0 | 63,000 | 74,600 | 58,000 | 250,500 | 14,800 | 2,100 | 19,000 | 0 | 11,300 | 0 | 212.7 | 6,440 | 1,067 | 9,600 |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | | |
|---|-----------------------|------------------------|---------------------|-----------------------|-----------------------|------------------------|----------------------------|--|---------------------------|--------------------|---------------------|---------------------|--------|------------|--|---------------|-----------------|---------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
| MONTANA | | | | | | | | | | | | | | | | | | |
| Cenex Harvest States—Laurel | 56,000 | 28,000 | .... | .... | ¹ 13,300 | ¹ 11,800 | .... | ¹ 14,000 ⁵ 14,600 ⁸ 15,500 | ² 4,200 | .... | .... | ¹ 2,500 | .... | .... | ¹ 12.0 ⁴ 12.0 | ... | 125 | 16,500 |
| ConocoPhillips—Billings | 58,000 | 31,500 | ² 17,500 | .... | ¹ 18,450 | ¹ 12,200 | .... | ⁷ 35,800 ⁸ 22,100 | ² 6,500 | .... | .... | ¹ 3,550 | .... | .... | ¹ 17.5 ⁶ 10.4 | 825 | 224 | .... |
| ExxonMobil Refining Supply Co.— Billings | 60,000 | 27,500 | ¹ 9,000 | .... | ¹ 22,500 | ¹ 12,000 | ^c 15,500 | ² 32,000 ⁵ 11,000 ⁷ 13,500 ¹³ 7,000 | ¹ 4,500 | .... | .... | .... | .... | .... | ¹ 22.0 ⁶ 4.5 | 410 | .... | 13,000 |
| Montana Refining Co.— Great Falls | 8,200 | 5,000 | .... | .... | ¹ 2,500 | ¹ 900 | .... | ¹ 1,100 ⁴ 1,000 ⁵ 2,000 ⁸ 3,000 | .... | .... | .... | 600 | .... | .... | ¹ 2.1 | .... | .... | 3,000 |
| Total | 182,200 | 92,000 | 26,500 | 0 | 56,750 | 36,900 | 5,500 | 172,600 | 15,200 | 0 | 0 | 6,650 | 0 | 0 | 80.5 | 1,235 | 349 | 32,500 |
| NEW JERSEY | | | | | | | | | | | | | | | | | | |
| ConocoPhillips—Linden | 238,000 | 71,250 | .... | .... | ¹ 130,500 | ² 28,800 | .... | ¹ 28,800 ⁷ 83,700 ⁸ 48,600 ¹² 36,000 | ¹ 15,750 | .... | .... | ¹ 24,500 | .... | .... | ⁶ 56.5 | .... | 340 | .... |
| Sunoco Inc.—Westville ^R | 150,000 | 47,500 | .... | .... | ¹ 55,000 | ¹ 28,000 | .... | ¹ 29,000 | ¹ 4,000 | ¹ 3,300 | ¹ 17,000 | ³ 10,000 | .... | .... | .... | .... | 20 | .... |
| Valero Energy Corp.—Paulsboro... | 166,000 | 90,000 | ² 27,000 | .... | ¹ 55,000 | ³ 32,000 | .... | ¹ 32,000 ⁴ 28,500 ⁵ 46,000 ¹¹ 750 ¹² 35,000 ¹³ 14,000 | ² 11,200 | .... | .... | .... | 11,500 | .... | ^a 13.5 ⁹ 9.0 | 1,470 | 230 | 16,000 |
| Total | 554,000 | 208,750 | 27,000 | 0 | 240,500 | 88,800 | 0 | 382,350 | 30,950 | 3,300 | 17,000 | 34,500 | 11,500 | 0 | 79.0 | 1,470 | 590 | 16,000 |
| NEW MEXICO | | | | | | | | | | | | | | | | | | |
| Giant Refining Co.—Bloomfield ... | 18,600 | .... | .... | .... | ¹ 6,000 | ¹ 4,800 | .... | ¹ 4,800 ⁵ 3,000 | .... | ¹ 2,000 | .... | .... | .... | .... | .... | .... | 1 | .... |
| Gallup | 26,000 | .... | .... | .... | ¹ 8,500 | ¹ 7,300 | .... | ¹ 7,500 ⁷ 4,000 | ² 1,800 | .... | .... | ³ 4,000 | .... | .... | .... | .... | 2 | .... |
| Navajo Refining Co.—Artesia | 60,000 | 20,000 | .... | .... | ¹ 18,500 | ³ 12,500 | .... | ¹ 25,000 ²⁵ 5,500 | ² 7,800 | .... | .... | ³ 10,000 | .... | .... | .... | .... | 30 | 3,500 |
| Total | 104,600 | 20,000 | 0 | 0 | 33,000 | 24,600 | 0 | 69,800 | 9,600 | 2,000 | 0 | 14,000 | 0 | 0 | 0.0 | 0 | 33 | 3,500 |
| NORTH DAKOTA | | | | | | | | | | | | | | | | | | |
| Tesoro West Coast Co.—Mandan.. | 58,000 | .... | .... | .... | ¹ 24,700 | ² 11,500 | .... | ¹ 12,000 ³ 11,600 | ² 4,200 | ¹ 1,100 | .... | ³ 4,800 | .... | .... | .... | .... | 15 | .... |
| Total | 58,000 | 0 | 0 | 0 | 24,700 | 11,500 | 0 | 23,600 | 4,200 | 1,100 | 0 | 4,800 | 0 | 0 | 0.0 | 0 | 15 | 0 |
| OHIO | | | | | | | | | | | | | | | | | | |
| BP PLC —Toledo* | 147,250 | 65,550 | ² 31,500 | .... | ¹ 54,000 | ² 38,700 | ^c 127,000 | 36,000 49,500 ⁸ 38,000 | ¹ 10,800 | .... | .... | .... | .... | .... | ¹ 33.0 ⁴ 24.0 ⁸ 8.0 | 1,736 | 314 | 8,600 |
| Marathon Ashland Petroleum LLC—Canton | 73,000 | 28,500 | .... | .... | ¹ 22,800 | ² 19,000 | .... | ¹ 23,800 ⁵ 8,600 ⁸ 24,700 ¹⁵ 6,700 | ² 6,700 | ¹ 800 | .... | ³ 3,800 | .... | .... | .... | .... | 110 | 10,900 |
| Premcor Refining Group—Lima.... | 156,750 | 49,400 | ² 20,250 | .... | ¹ 36,000 | ² 49,950 | ⁴ 23,400 | ¹ 56,700 | .... | .... | ¹ 6,300 | ³ 16,830 | .... | .... | ⁵ 9.4 | 720 | 47 | .... |
| Sunoco Inc.—Toledo | 140,000 | 30,000 | .... | .... | ¹ 60,000 | ¹ 45,600 | ¹ 28,200 | ¹ 48,000 | ¹ 9,000 | .... | ¹ 9,000 | .... | .... | .... | ¹ 52.0 | .... | .... | .... |
| Total | 517,000 | 173,450 | 51,750 | 0 | 172,800 | 153,250 | 78,600 | 285,300 | 26,500 | 800 | 15,300 | 20,630 | 0 | 0 | 126.4 | 2,456 | 471 | 19,500 |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | | |
|--|-----------------------|------------------------|---------------------|-----------------------|-----------------------|--|--|--|--|--------------------|--|---|-------|--------------------|---|---------------|-----------------|---------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
| OKLAHOMA | | | | | | | | | | | | | | | | | | |
| ConocoPhillips—Ponca City | 187,000 | 74,500 | ² 26,500 | .... | ¹ 64,000 | ¹ 48,300 | .... | ¹ 49,000 ⁴ 15,000 ⁵ 34,800 ⁸ 21,400 ¹² 45,000 ¹³ 12,500 | ² 14,500 | ¹ 2,400 | .... | ¹ 5,500 ³ 11,800 | .... | .... | ¹ 10.0 ⁶ 15.0 | 1,425 | 118 | .... |
| Gary-Williams Energy Corp.— Wynnewood | 52,500 | 15,500 | .... | .... | ¹ 18,500 | ³ 13,000 | ¹ 5,000 | ¹ 12,000 | ² 4,000 | .... | .... | ³ 3,500 | .... | .... | ¹ 9.0 | .... | .... | 5,000 |
| Sinclair Oil Corp.—Tulsa | 50,000 | 25,175 | .... | .... | ¹ 16,200 | ¹ 10,800 | .... | ¹ 10,800 ⁷ 15,500 | ¹ 2,700 | .... | .... | ³ 5,400 | .... | .... | .... | .... | 19 | 2,250 |
| Sunoco Inc.—Tulsa | 85,000 | 30,000 | ² 8,500 | .... | .... | ¹ 17,500 | .... | ¹ 24,000 ¹¹ 10,500 | .... | .... | .... | .... | 8,500 | .... | .... | 350 | .... | .... |
| Valero Energy Corp.—Ardmore..... | 85,000 | 32,000 | .... | .... | ¹ 25,400 | ³ 21,000 | .... | ¹ 25,800 ⁵ 33,200 ⁸ 31,200 | ² 6,400 | .... | .... | ³ 7,000 | .... | .... | ¹ 26.0 | .... | 100 | 11,000 |
| Total | 459,500 | 177,175 | 35,000 | 0 | 124,100 | 110,600 | 5,000 | 340,700 | 27,600 | 2,400 | 0 | 33,200 | 8,500 | 0 | 60.0 | 1,775 | 237 | 18,250 |
| PENNSYLVANIA | | | | | | | | | | | | | | | | | | |
| American Refining Group— Bradford | 10,000 | .... | .... | .... | .... | ¹ 1,800 | .... | ¹ 3,500 | .... | .... | .... | ³ 600 | 2,600 | .... | .... | .... | .... | .... |
| ConocoPhillips—Trainer | 185,000 | 75,400 | .... | .... | ¹ 48,400 | ³ 48,800 | ^{m4} 19,900 | ¹ 51,900 ⁴ 20,300 ⁵ 21,000 ⁸ 38,300 | ² 11,800 | .... | .... | .... | .... | .... | .... | .... | 160 | .... |
| Sunoco Inc.—Marcus Hook | 175,000 | 26,400 | .... | .... | ¹ 93,000 | ¹ 15,600 | .... | ¹ 36,000 ¹² 12,000 | ¹ 10,000 | .... | ¹ 19,200 ³ 2,400 | .... | .... | ¹ 2,600 | ¹ 6.0 | .... | .... | .... |
| Philadelphia | 330,000 | 157,400 | .... | .... | ¹ 113,500 | ¹ 68,000 | .... | ¹ 85,600 ⁵ 78,000 | ² 16,700 | .... | ¹ 3,700 ⁴ 10,000 | ¹ 7,300 | .... | .... | .... | .... | .... | .... |
| United Refining Co.—Warren | 66,700 | 27,000 | .... | .... | ¹ 23,000 | ² 16,000 | .... | ² 20,000 ⁶ 000 ⁷ 14,000 | ¹ 3,500 | ¹ 1,000 | .... | ³ 6,800 | .... | .... | .... | .... | .... | 12,000 |
| Total | 766,700 | 286,200 | 0 | 0 | 277,900 | 150,200 | 19,900 | 386,600 | 42,000 | 1,000 | 35,300 | 14,700 | 2,600 | 2,600 | 6.0 | 0 | 160 | 12,000 |
| TENNESSEE | | | | | | | | | | | | | | | | | | |
| Premcor Refining—Memphis | 190,000 | .... | .... | .... | ¹ 68,000 | ³ 36,000 | .... | ¹ 60,000 ⁵ 1,000 ¹³ 12,000 | ² 12,000 | .... | .... | ³ 4,000 | .... | .... | .... | .... | 45 | .... |
| Total | 190,000 | 0 | 0 | 0 | 68,000 | 36,000 | 0 | 123,000 | 12,000 | 0 | 0 | 4,000 | 0 | 0 | 0.0 | 0 | 45 | 0 |
| TEXAS | | | | | | | | | | | | | | | | | | |
| AGE Refining Manufacturing— San Antonio | 10,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | ¹ 1,200 | .... | .... | .... | .... | .... | .... | .... |
| Alon USA—Big Spring | 62,000 | 24,000 | .... | .... | ¹ 23,000 | ¹ 21,000 | .... | ¹ 25,500 ⁴ 3,700 ⁵ 22,000 ⁸ 6,200 ¹² 8,000 | ² 4,500 | .... | ¹ 4,900 | .... | .... | .... | .... | .... | 131 | 8,500 |
| BP PLC —Texas City* | 446,500 | 225,150 | ² 38,700 | .... | ¹ 183,600 | ² 124,200 | ^{c1} 57,000 ^{c2} 57,000 | ¹ 104,500 ⁷ 133,000 ¹³ 126,400 | ¹ 20,900 ² 38,000 | .... | ¹ 43,700 | ³ 24,300 | .... | .... | ¹ 180.0 ⁵ 22.8 | 2,585 | 1,123 | .... |
| Citgo Petroleum Corp.— Corpus Christi* | 156,750 | 73,625 | ² 37,800 | .... | ¹ 72,450 | ³ 45,450 | .... | ¹ 47,250 ⁵ 44,100 ⁸ 56,880 | ² 18,090 | .... | ¹ 12,600 ² 2,835 ³ 3,600 ⁴ 11,070 | .... | .... | ¹ 3,600 | .... | 2,123 | 282 | .... |
| Coastal Refining Marketing Inc.—Corpus Christi..... | 100,000 | 56,000 | ² 17,500 | ² 10,000 | ¹ 20,000 | ¹ 10,000 ³ 20,000 | ^{c1} 11,000 | ¹ 31,000 ⁴ 12,000 ⁵ 14,000 ⁸ 25,000 | ² 3,000 | ¹ 2,000 | ¹ 14,500 ² 6,000 | ³ 5,200 | .... | .... | ¹ 24.0 ⁵ 15.0 | 1,000 | 280 | 12,000 |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | | |
|---|-----------------------|------------------------|--|-----------------------|-----------------------|--|----------------------------|---|---------------------------|-----------|--|--|--------|--------------------|--|---------------|-----------------|---------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
| ConocoPhillips—Borger | 146,000 | .... | .... | .... | ¹ 58,300 | ² 28,600 | .... | ³ 34,200 ⁴ 213,500 ⁵ 26,600 ⁶ 12,600 ⁷ 71,100 | ² 17,000 | .... | .... | ¹ 17,100 ² 20,250 ³ 7,100 | .... | .... | ¹ 65.0 ⁴ 6.0 | .... | 400 | .... |
| Sweeny | 219,700 | 111,150 | ² 65,000 | .... | ¹ 95,400 | ³ 32,400 | .... | ⁴ 50,100 ⁵ 37,800 ⁶ 48,450 ⁷ 95,000 ⁸ 16,000 | ² 16,650 | .... | ¹ 10,440 ³ 6,900 | ² 9,100 | .... | .... | ⁵ 95.0 ⁷ 70.0 | 3,970 | 532 | .... |
| Crown Central Petroleum Corp.—Pasadena | 100,000 | 41,000 | ² 12,000 | .... | ¹ 50,000 | ³ 20,000 | .... | ¹ 32,000 ⁵ 12,000 | ² 11,000 | .... | .... | .... | .... | .... | .... | 500 | 24 | .... |
| ExxonMobil Refining Supply Co.—Baytown | 557,000 | 265,000 | ² 43,500 ³ 38,500 | .... | ¹ 202,500 | ² 122,000 | ⁴ 26,000 | ¹ 154,000 ² 113,000 ⁴ 33,500 ⁷ 194,000 ⁸ 105,500 ¹¹ 49,000 ¹² 78,000 | ¹ 34,500 | .... | .... | .... | 21,000 | ¹ 6,500 | ¹ 83.5 ⁶ 56.5 | 3,280 | 1,630 | .... |
| Beaumont | 348,500 | 143,000 | ² 48,000 | .... | ¹ 108,500 | ³ 147,000 | ⁴ 61,500 | ¹ 114,000 ² 65,000 ⁴ 51,500 ⁵ 27,500 ¹¹ 6,000 ¹² 25,500 | ¹ 15,500 | .... | .... | ² 24,500 | 12,500 | ¹ 4,500 | ⁵ 54.5 | 2,900 | 580 | .... |
| Flint Hills Resources— Corpus Christi | 279,300 | 83,125 | ² 12,600 | .... | ¹ 96,030 | ¹ 16,200 ³ 46,800 | ¹ 12,600 | ¹ 73,350 ⁴ 12,600 ⁵ 47,790 ⁸ 45,000 ¹² 40,500 | ² 12,870 | .... | ¹ 31,500 ⁴ 13,680 | .... | .... | .... | .... | 590 | 242 | .... |
| LaGloria Oil Gas Co.—Tyler | 60,000 | 15,000 | ² 6,500 | .... | ¹ 20,200 | ³ 17,500 | .... | ¹ 20,000 ⁵ 12,000 | ¹ 4,750 | .... | .... | ³ 5,000 | .... | .... | .... | 250 | 18 | .... |
| Lyondell-Citgo Refining LP— Houston | 268,850 | 187,625 | ² 87,300 | .... | ¹ 89,100 | ¹ 60,300 | .... | ¹ 64,800 ² 24,210 ⁴ 19,800 ⁵ 76,500 ⁷ 3,060 ⁸ 92,700 | ¹ 18,810 | .... | ¹ 9,630 | .... | 3,700 | ¹ 2,610 | .... | 5,000 | 1,042 | .... |
| Marathon Ashland Petroleum LLC—Texas City | 72,000 | .... | .... | .... | ¹ 48,500 | ¹ 10,500 | .... | .... | ² 12,800 | .... | ¹ 2,400 | .... | .... | .... | .... | .... | .... | .... |
| Motiva Enterprises LLC— Port Arthur | 275,000 | 121,000 | ² 49,500 | .... | ¹ 86,000 | ³ 45,000 | ⁴ 17,800 | ¹ 45,000 ⁴ 36,000 ⁵ 45,000 ⁸ 22,000 ¹² 50,000 | ¹ 18,000 | .... | .... | .... | 22,000 | .... | .... | 2,450 | 544 | .... |
| Premcor Refining Group— Port Arthur | 250,000 | 135,000 | ² 100,000 | .... | ¹ 80,000 | ³ 53,000 | ⁴ 45,000 | ¹ 53,000 ² 30,000 ³ 15,000 ⁴ 30,000 ⁸ 65,000 ¹² 50,000 | ² 20,000 | .... | .... | .... | .... | .... | ¹ 105.0 ⁴ 6.0 | 6,200 | 850 | .... |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | | |
|---|-----------------------|------------------------|---------------------|-----------------------|--|--|----------------------------------|---|---------------------------|--------------------|---------------------|--|--------|---|---|---------------|-----------------|---------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
| Shell Deer Park Refining Co.— Deer Park..... | 333,700 | 171,500 | ² 81,100 | .... | ¹ 67,500 ² 45,400 | ¹ 24,000 ² 45,400 | ^c ¹ 61,600 | ¹ 77,200 ⁴ 35,600 ⁵ 43,200 ⁸ 46,600 ⁹ 39,900 ¹¹ 11,200 ¹² 41,000 | ¹ 18,100 | .... | .... | .... | .... | ¹ 6,100 ⁴ 36.5 | ^a 165.8 ⁴ 36.5 | 5,235 | 1,150 | 4,600 |
| Total SA—Port Arthur..... | 174,575 | 50,433 | .... | .... | ¹ 53,329 | ³ 36,467 | .... | ¹ 44,129 ⁵ 29,726 ⁸ 49,090 | ¹ 5,168 | .... | .... | ³ 13,578 | .... | .... | .... | .... | 270 | .... |
| Valero Energy Corp.— Corpus Christi | 152,000 | 85,000 | ² 17,500 | .... | ¹ 20,000 ² 95,000 | ¹ 10,000 ³ 57,000 | ^c ⁴ 49,000 | ¹ 67,000 ⁴ 12,000 ⁵ 13,700 ⁸ 28,000 ¹⁰ 74,000 | ² 18,500 | .... | ¹ 17,000 | ¹ 16,000 | .... | ¹ 21,500 ³ 2,200 | ^a 194.0 ⁴ 63.0 | 998 | 790 | 40,000 |
| Houston | 90,000 | 39,000 | .... | .... | ¹ 65,000 | ¹ 10,000 | .... | ¹ 13,000 ⁴ 5,000 ⁵ 18,000 ¹² 9,500 | ¹ 9,000 | ² 1,500 | .... | .... | .... | .... | .... | .... | 100 | 4,500 |
| Sunray | 164,000 | 48,000 | .... | .... | ¹ 54,500 | ¹ 18,000 ³ 28,000 | ^c ² 30,000 | ¹ 38,000 ² 15,000 ⁵ 30,000 ¹² 3,200 | ¹ 9,000 | .... | .... | ³ 7,000 | .... | ¹ 1,900 ³ 1,500 | .... | .... | 60 | .... |
| Texas City | 221,000 | 210,000 | ¹ 50,000 | .... | ² 80,000 | ³ 14,000 | .... | ¹ 21,500 ⁴ 36,000 ⁵ 52,000 ¹⁰ 110,000 ¹² 53,000 | ² 12,000 | .... | .... | ³ 6,500 | .... | ¹ 2,500 ⁵ 26.0 | ^a 451.0 ⁵ 26.0 | 3,000 | 1,000 | .... |
| Three Rivers | 97,000 | 29,000 | .... | .... | ¹ 23,000 | ¹ 10,500 ³ 20,000 | ^c ² 29,000 | ¹ 19,000 ⁴ 10,500 ⁵ 19,000 ⁶ 19,000 ⁸ 11,500 ¹¹ 1,750 | ² 5,800 | .... | ¹ 9,600 | .... | 1,200 | .... | ¹ 6.0 ⁴ 9.6 | .... | 50 | .... |
| Western Refining Inc.—El Paso | 90,000 | 34,700 | .... | .... | ¹ 28,000 | ¹ 17,700 | .... | ¹ 18,300 ⁴ 8,200 ⁵ 11,300 | ¹ 8,200 | .... | .... | ¹ 2,500 | .... | .... | .... | .... | 20 | 4,800 |
| Total | 4,673,875 | 2,148,308 | 705,500 | 10,000 | 1,719,909 | 1,111,017 | 457,500 | 4,203,785 | 352,138 | 3,500 | 201,555 | 158,128 | 60,400 | 52,910 | 1,135.2 | 40,081 | 11,118 | 74,400 |
| UTAH | | | | | | | | | | | | | | | | | | |
| Big West Oil LLC— Salt Lake City | 25,000 | 5,500 | .... | .... | ¹ 10,000 | ¹ 6,000 | .... | ¹ 7,000 ⁵ 7,000 | ² 2,000 | .... | .... | ¹ 1,500 ³ 1,700 | .... | .... | .... | .... | 4 | .... |
| ChevronTexaco Corp.— Salt Lake City | 45,000 | 25,600 | ² 7,200 | .... | ¹ 13,000 | ¹ 7,000 | .... | ¹ 7,300 ⁵ 10,200 ⁷ 6,500 | ² 4,500 | .... | .... | ¹ 1,000 | .... | .... | .... | 281 | 18 | .... |
| Holly Corp.—Woods Cross | 25,000 | 5,500 | .... | .... | ¹ 7,680 | ¹ 7,200 | .... | ² 12,000 ⁷ 1,700 | ² 2,400 | .... | .... | ³ 2,600 | .... | .... | .... | .... | 4 | 800 |
| Silver Eagle Refining Inc.— Woods Cross..... | 12,500 | 6,000 | .... | .... | .... | ¹ 2,200 | .... | ¹ 2,200 ⁴ 000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | 1,200 |
| Tesoro West Coast Co.— Salt Lake City | 60,000 | .... | .... | .... | ¹ 23,000 | ² 12,000 | .... | ¹ 12,000 | ¹ 6,000 | .... | .... | .... | .... | .... | .... | .... | 15 | .... |
| Total | 167,500 | 42,600 | 7,200 | 0 | 53,680 | 34,400 | 0 | 69,900 | 14,900 | 0 | 0 | 6,800 | 0 | 0 | 0.0 | 281 | 41 | 2,000 |
| VIRGINIA | | | | | | | | | | | | | | | | | | |
| Giant Refining—Yorktown | 58,900 | 33,000 | ² 17,100 | .... | ¹ 26,700 | ² 10,800 | .... | ¹ 11,300 ⁷ 18,000 | .... | ¹ 4,000 | .... | .... | .... | ¹ 660 | .... | 905 | 36 | .... |
| Total | 58,900 | 33,000 | 17,100 | 0 | 26,700 | 10,800 | 0 | 29,300 | 0 | 4,000 | 0 | 0 | 0 | 660 | 0.0 | 905 | 36 | 0 |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | | | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
|---|-----------------------|------------------------|---------|-----------------------|-----------------------|------------------------|----------------------------|---|---------------------------|-----------|-----------|---------------|-------|------------|--------------|-------|------|--------|---------------------|---------------|-----------------|---------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | | | | | | | | |
| WASHINGTON | | | | | | | | | | | | | | | | | | | | | | |
| BP PLC—Ferndale* | 220,400 | 95,950 | 256,700 | .... | .... | 156,700 | 151,300 | 151,300 | .... | .... | .... | .... | .... | .... | 192.0 | 2,700 | 211 | .... |  |  |  |  |
| ConocoPhillips—Ferndale | 93,000 | 46,400 | .... | .... | 128,350 | 215,700 | .... | 16,378 413,300 726,900 1218,000 | 28,550 | .... | .... | 13,960 | .... | .... | 633.0 | .... | 46 | .... |  |  |  |  |
| Shell Oil Products US— Anacortes | 148,600 | 62,300 | 225,700 | .... | 157,900 | 131,800 | .... | 130,400 415,800 544,200 1237,300 | 111,900 | 14,300 | .... | .... | .... | .... | .... | 1,400 | 150 | .... |  |  |  |  |
| Tesoro West Coast Co.— Anacortes | 114,500 | 45,000 | .... | .... | 142,000 | 224,300 | .... | 131,800 527,600 87,100 | 111,500 | .... | .... | 13,400 | .... | .... | .... | .... | 48 | 1,000 | | | | |
| US Oil Refining Co.—Tacoma | 35,800 | 17,700 | .... | .... | .... | 15,500 | .... | 17,400 55,500 | .... | .... | .... | 32,700 | .... | .... | .... | .... | .... | 10,000 | | | | |
| Total | 612,300 | 267,350 | 82,400 | 0 | 128,250 | 134,000 | 51,300 | 356,378 | 31,950 | 4,300 | 0 | 10,060 | 0 | 0 | 125.0 | 4,100 | 455 | 11,000 | | | | |
| WEST VIRGINIA | | | | | | | | | | | | | | | | | | | | | | |
| Ergon-West Virginia Inc.— Newell | 19,400 | 8,400 | .... | .... | .... | 13,600 | .... | 14,600 96,000 | .... | .... | .... | .... | 4,800 | .... | 11.2 | .... | 1 | .... |  |  |  |  |
| Total | 19,400 | 8,400 | 0 | 0 | 0 | 3,600 | 0 | 10,600 | 0 | 0 | 0 | 0 | 4,800 | 0 | 1.2 | 0 | 1 | 0 | | | | |
| WISCONSIN | | | | | | | | | | | | | | | | | | | | | | |
| Murphy Oil USA Inc.—Superior | 33,250 | 19,500 | .... | .... | 19,900 | 17,200 | .... | 18,100 7,020 115,500 | 21,350 | .... | .... | 31,800 | .... | .... | .... | .... | 15 | 6,750 | | | | |
| Total | 33,250 | 19,500 | 0 | 0 | 9,900 | 7,200 | 0 | 20,620 | 1,350 | 0 | 0 | 1,800 | 0 | 0 | 0.0 | 0 | 15 | 6,750 | | | | |
| WYOMING | | | | | | | | | | | | | | | | | | | | | | |
| Frontier Refining Inc.— Cheyenne | 46,000 | 26,000 | 110,000 | .... | 112,000 | 17,600 | .... | 18,900 516,500 | 24,200 | .... | .... | 11,600 | .... | .... | 15.5 45.5 | 560 | 85 | .... |  |  |  |  |
| Sinclair / Little America— Casper | 22,500 | 6,000 | .... | .... | 110,000 | 15,500 | .... | 17,500 58,500 | .... | 11,000 | .... | .... | .... | .... | .... | .... | 20 | .... |  |  |  |  |
| Sinclair Oil Corp.—Sinclair | 72,000 | 65,000 | .... | .... | 1120,000 | 15,700 | .... | 17,500 58,000 | .... | 1300 | .... | .... | .... | .... | .... | .... | 20 | 1,750 | | | | |
| Wyoming Refining Co.— Newcastle | 12,500 | 1,500 | .... | .... | 15,500 | 12,750 | .... | 1 54,000 | 21,300 | .... | .... | .... | .... | .... | .... | .... | 4 | .... |  |  |  |  |
| Total | 153,000 | 98,500 | 10,000 | 0 | 147,500 | 21,550 | 0 | 60,900 | 5,500 | 1,300 | 0 | 1,600 | 0 | 0 | 11.0 | 560 | 128 | 1,750 | | | | |
| URUGUAY | | | | | | | | | | | | | | | | | | | | | | |
| ANCAP—La Teja Montevideo | 50,000 | 25,000 | .... | 27,000 | 112,000 | 112,000 | .... | 112,000 26,000 45,000 | .... | .... | .... | 36,000 | .... | .... | .... | .... | .... | .... |  |  |  |  |
| Total | 50,000 | 25,000 | 0 | 7,000 | 12,000 | 12,000 | 0 | 23,000 | 0 | 0 | 0 | 6,000 | 0 | 0 | 0.0 | 0 | 0 | 0 | | | | |
| UZBEKISTAN | | | | | | | | | | | | | | | | | | | | | | |
| Uzbekneftegaz—Alty-Arik | 66,271 | .... | .... | 19,585 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |  |  |
| Bukhara | 50,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |  |  |  |  |
| Fergana | 106,000 | 45,671 | 217,667 | .... | .... | 123,487 | .... | 123,900 116,904 | .... | .... | .... | .... | 9,397 | .... | .... | 650 | .... | 4,151 | | | | |
| Total | 222,271 | 45,671 | 17,667 | 9,585 | 0 | 23,487 | 0 | 30,804 | 0 | 0 | 0 | 0 | 9,397 | 0 | 0.0 | 650 | 0 | 4,151 | | | | |

| WORLDWIDE REFINING Company and refinery location | Charge capacity, b/cd | | | | | | | | Production capacity, b/cd | | | | | | | | | |
|--|-----------------------|------------------------|--|-----------------------|-----------------------|------------------------|----------------------------|---|--|--------------------|---------------------|---------------------|--------|--|---------------------|---------------|-----------------|---------|
| | Crude | Vacuum distillation | Coking | Thermal operations | Catalytic cracking | Catalytic reforming | Catalytic hydrocracking | Catalytic hydrotreating | Alkylation | Pol./Dim. | Aromatics | Isomerization | Lubes | Oxygenates | Hydrogen (MMcfd) | Coke (t/d) | Sulfur (t/d) | Asphalt |
| VENEZUELA | | | | | | | | | | | | | | | | | | |
| Paraguana Refining Center— Cardon/Judibana, Falcon..... | 940,000 | 503,975 | ² 87,300 ³ 57,600 | .... | ¹ 166,500 | ³ 40,500 | .... | ¹ 54,000 ⁸ 184,500 ¹¹ 139,500 ¹² 2,700 | ¹ 22,500 ² 18,900 | .... | .... | ¹ 20,700 | 12,020 | ¹ 1,530 ³ 8,500 | ¹ 141.0 | 5,200 | 1,454 | 36,000 |
| Maracaibo, Zulia..... | 15,000 | 8,835 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Petroleos de Venezuela SA— El Palito, Puerto Cabello | 126,900 | 71,200 | .... | .... | ¹ 51,700 | ¹ 9,000 | .... | 9,000 | ² 20,300 | .... | ¹ 2,000 | .... | .... | ⁴ 2,800 | ⁴ 6.8 | .... | .... | .... |
| Puerto de la Cruz..... | 195,000 | .... | .... | .... | ¹ 13,600 | .... | .... | .... | ² 4,100 | .... | .... | .... | .... | .... | .... | .... | 17 | .... |
| San Roque, Anzoategui | 5,200 | 1,770 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total..... | 1,282,100 | 585,780 | 144,900 | 0 | 231,800 | 49,500 | 0 | 389,700 | 65,800 | 0 | 2,000 | 20,700 | 12,020 | 12,830 | 147.8 | 5,200 | 1,471 | 36,000 |
| VIRGIN ISLANDS | | | | | | | | | | | | | | | | | | |
| Hovensa LLC—St. Croix..... | 495,000 | 215,000 | ² 58,000 | ² 80,000 | ¹ 130,000 | ¹ 125,000 | .... | ² 125,000 ¹ 65,000 ¹ 30,000 | ¹ 14,000 | ² 6,000 | ¹ 30,000 | ² 15,000 | .... | ¹ 4,000 ³ 4,000 | .... | 3,562 | .... | .... |
| Total..... | 495,000 | 215,000 | 58,000 | 80,000 | 130,000 | 125,000 | 0 | 420,000 | 14,000 | 6,000 | 30,000 | 15,000 | 0 | 8,000 | 0.0 | 3,562 | 0 | 0 |
| YEMEN | | | | | | | | | | | | | | | | | | |
| Aden Refinery Co.—Little Aden | 120,000 | 10,500 | .... | .... | .... | ¹ 12,000 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | 3,000 |
| Yemen Oil Co.—Marib..... | 10,000 | .... | .... | .... | .... | ¹ 2,500 | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... | .... |
| Total..... | 130,000 | 10,500 | 0 | 0 | 0 | 14,500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 3,000 |
| ZAMBIA | | | | | | | | | | | | | | | | | | |
| Indeni Petroleum Refinery Co. Ltd.—Bwana Nkubwa Area, Ndola..... | 23,750 | 2,280 | .... | .... | .... | ¹ 5,320 | .... | ⁷ 8,550 | .... | .... | .... | .... | .... | .... | .... | .... | .... | 5,527 |
| Total..... | 23,750 | 2,280 | 0 | 0 | 0 | 5,320 | 0 | 8,550 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0 | 0 | 5,527 |