



Organización Latinoamericana de Energía
Latin American Energy Organization



Comisión Europea
European Commission

SIEE[®]

SISTEMA DE INFORMACIÓN ECONÓMICA ENERGÉTICA
ENERGY-ECONOMIC INFORMATION SYSTEM

Energía en Cifras
Energy Statistics

Version No. 15
Quito, 2003

PRESENTACION

La Organización Latinoamericana de Energía (OLADE) es un organismo internacional de cooperación, coordinación y asesoría, con personería jurídica propia, cuyo propósito fundamental es promover la integración, desarrollo, conservación, uso racional y comercialización de los recursos energéticos de la región.

La Secretaría Permanente de OLADE presenta este plegable con el objeto de proporcionar a la comunidad internacional información básica sobre el comportamiento de las principales variables energéticas de América Latina y el Caribe y su participación en el contexto mundial.

Los datos que aquí se publican se han obtenido del Sistema de Información Económica-Energética (SIEE®), el cual se basa en información proporcionada por los Ministerios de Energía de cada uno de los Países Miembros de la Organización. Este proyecto cuenta con el apoyo de la Comisión Europea.

PRESENTATION

The Latin American Energy Organization (OLADE) is an international public cooperation, coordination, and advisory agency, with its own legal status, aimed essentially at promoting the integration, development, conservation, rational use, and marketing of the region's energy resources.

The Permanent Secretariat of OLADE is issuing this brochure to provide the international community with basic information on the performance of the major energy variables for Latin America and the Caribbean and their share in the world situation.

The data published herein have been drawn from the Energy-Economic Information System (SIEE®), based on information provided by the Ministries of Energy in each OLADE member country. This project is supported by the European Commission.

TABLA DE CONVERSIONES PARA UNIDADES ENERGETICAS COMUNES DE OLADE
CONVERSION TABLE FOR COMMON OLADE ENERGY UNITS

| | Bep | Tep | Tec | Tcal | TJ | 10 ³ Btu | MWh | kg GLP | m ³ Gas Nat. | pc Gas Nat. |
|-------------------------|-----------|-----------|-----------|-----------|-----------|---------------------|-----------|-----------|-------------------------|-------------|
| Bep | 1 | 0.13878 | 0.1982593 | 0.00139 | 0.00581 | 5524.86 | 1.6139445 | 131.0616 | 167.207304 | 5917.15976 |
| Tep | 7.205649 | 1 | 1.4285868 | 0.01 | 0.04184 | 39810.22 | 11.629517 | 944.38388 | 1204.83714 | 42636.9763 |
| Tec | 5.04390 | 0.6999925 | 1 | 0.0070 | 0.0292877 | 27866.85 | 8.14057 | 661.0616 | 843.376919 | 29845.5621 |
| Tcal | 720.5649 | 100 | 142.85868 | 1 | 4.184 | 3981022 | 1162.952 | 94438.388 | 120483.714 | 4263697.6 |
| TJ | 172.21914 | 23.900574 | 34.144044 | 0.2390057 | 1 | 951487 | 277.95214 | 22571.316 | 28796.2988 | 1019048.19 |
| 10 ³ Btu | 0.00018 | 2.51E-05 | 3.59E-05 | 2.51E-07 | 1.05E-06 | 1 | 0.00029 | 0.02372 | 0.030265 | 1.07101 |
| MWh | 0.61960 | 0.08599 | 0.1228 | 0.00086 | 0.0036 | 3423.20 | 1 | 81.20577 | 103.6016 | 3666.27219 |
| kg GLP | 0.00763 | 0.00106 | 0.001513 | 1.06E-05 | 4.43E-05 | 42.154696 | 0.0123144 | 1 | 1.27579173 | 45.147929 |
| m ³ Gas Nat. | 0.00598 | 0.00083 | 0.001186 | 8.30E-06 | 3.47E-05 | 33.041989 | 0.0096524 | 0.783827 | 1 | 35.3881657 |
| pc Gas Nat. | 0.00017 | 2.35E-05 | 3.35E-05 | 2.35E-07 | 9.81E-07 | 0.9337017 | 0.0002728 | 0.0221494 | 0.02825803 | 1 |

• 1bbl GLP = 0.6701 Bep • 1bbl = 0.15898 m³ = 5.6143 pc • 1m³ GLP = 552.4 kg • 1pc = 0.028317 m³

ABREVIATURAS / ABBREVIATIONS

| | |
|----------------------|--|
| bbl | Barriles / Barrels |
| Bep | Barriles equivalentes de petróleo |
| Boe | Barrels of oil equivalent |
| Btu | Unidad Térmica Británica / British Thermal Unit |
| GW | Gigavatios / Gigawatts |
| GWh | Gigavatios-hora / Gigawatt-hour |
| Hab | Habitantes / Inhabitants |
| kg | Kilogramo / Kilogram |
| KWh | Kilovatios-hora / Kilowatt-hour |
| GLP | Gas Licuado de Petróleo |
| LPG | Liquefied Petroleum Gas |
| m³ | Metros cúbicos / Cubic meters |
| MW | Megavatios / Megawatts |
| MWh | Megavatios-hora / Megawatt-hour |
| n/a | No aplicable / not applicable |
| pc | Pies cúbicos / Cubic feet |
| Tcal | Teracalorías / Teracalories |
| Tec | Toneladas equivalentes de carbón / Tons of coal equivalent |
| Tep | Toneladas equivalentes de petróleo / Tons of oil equivalent |
| TJ | Terajoules |
| tons | Toneladas métricas / Metric tons |
| TWh | Teravatios-hora / Terawatt-hour |

FUENTES

Cifras de América Latina y El Caribe:

OLADE, Sistema de Información Económica-Energética (SIEE®), con base en la información proporcionada por los Países Miembros

Cifras de otras regiones del mundo:

British Petroleum
Energy Information Administration (US-DOE).

SOURCES

Figures for Latin America and the Caribbean:

OLADE, Energy-Economic Information System (SIEE®), based on information provided by the member countries

Figures for other world regions:

British Petroleum
Energy Information Administration (US-DOE).

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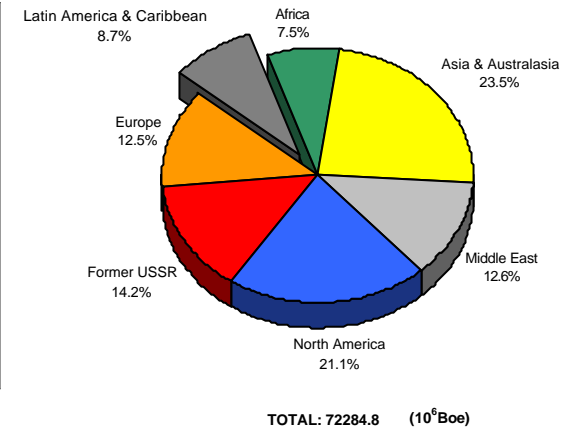
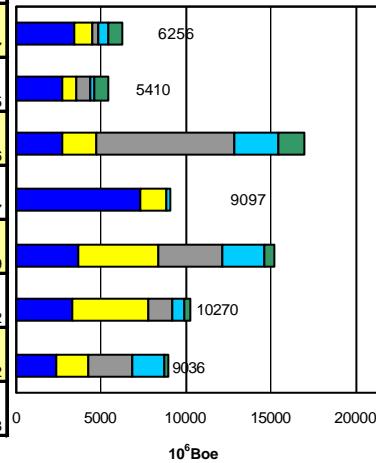
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PRODUCCION MUNDIAL DE ENERGIA / WORLD ENERGY PRODUCTION (10⁶ Boe) 2002

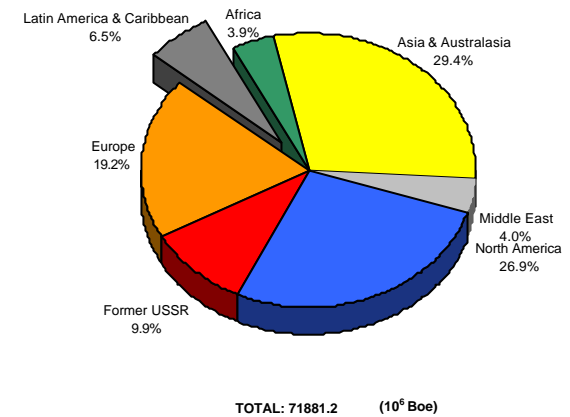
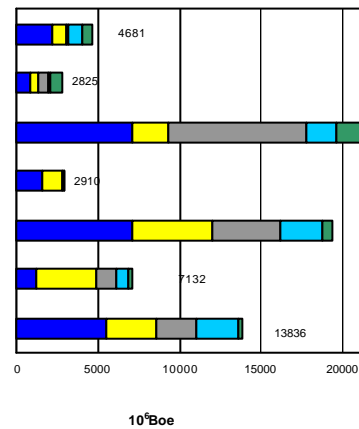
| REGION | Oil Petróleo | Natural Gas | Coal Carbón M. | Electricity Electricidad | Biomass Biomasa | TOTAL |
|--------------------------|-----------------|----------------|-------------------|-----------------------------|--------------------|----------------|
| Latin America & Caribbea | 3488.1 | 1085.5 | 320.1 | 606.1 | 756.0 | 6255.7 |
| Africa | 2751.2 | 867.5 | 813.0 | 247.4 | 730.5 | 5409.5 |
| Asia & Australasia | 2768.5 | 1964.8 | 8168.1 | 2504.8 | 1560.4 | 16966.6 |
| Middle East | 7269.8 | 1534.3 | 2.1 | 275.3 | 15.1 | 9096.7 |
| North America | 3666.6 | 4761.9 | 3741.2 | 2482.7 | 597.5 | 15249.9 |
| Former Soviet Union | 3286.7 | 4514.5 | 1456.7 | 700.1 | 312.2 | 10270.2 |
| Europe | 2336.2 | 1920.5 | 2640.2 | 1884.2 | 254.9 | 9036.2 |
| TOTAL | 25567.0 | 16649.0 | 17141.5 | 8700.6 | 4226.7 | 72284.8 |



CONSUMO MUNDIAL DE ENERGIA / WORLD ENERGY CONSUMPTION (10⁶ Boe)2002

| REGION | Oil Petróleo | Natural Gas | Coal Carbón M. | Electricity Electricidad | Biomass Biomasa | TOTAL |
|-------------------------------|-----------------|----------------|-------------------|-----------------------------|--------------------|----------------|
| Latin America & Caribbean (*) | 2149.8 | 893.6 | 183.9 | 759.0 | 694.7 | 4681.0 |
| Africa | 854.6 | 437.4 | 652.8 | 154.5 | 725.5 | 2824.8 |
| Asia & Australasia | 7145.1 | 2142.2 | 8527.9 | 1779.8 | 1554.7 | 21149.7 |
| Middle East | 1494.5 | 1333.8 | 60.5 | 13.7 | 7.9 | 2910.4 |
| North America | 7090.4 | 4851.6 | 4211.7 | 2596.6 | 597.1 | 19347.4 |
| Former Soviet Union | 1212.7 | 3688.6 | 1156.6 | 761.7 | 312.2 | 7131.8 |
| Europe | 5454.0 | 3081.1 | 2490.2 | 2555.8 | 254.9 | 13836.0 |
| TOTAL | 25401.1 | 16428.3 | 17283.6 | 8621.1 | 4147.1 | 71881.2 |

(*) Includes final consumption, transformation center consumption and losses.



LATINO AMERICA & EL CARIBE: CONSUMO DE ENERGIA / ENERGY CONSUMPTION 2002

| COUNTRY | POPULATION 10 ³ inhab | GROSS DOMESTIC PRODUCT(3) 10 ⁶ 1995 US\$ | FINAL ENERGY CONSUMPTION 10 ³ Boe | PER CAPITA GDP (3) 1995 US\$/inhab | PER CAPITA FINAL CONSUMPTION Boe/inhab | ENERGY INTENSITY (2) (3) Boe/10 ³ 1995 US\$ | CONSUMPTION | | | | CO2 EMISSIONS* | |
|-------------------------|-------------------------------------|--|---|---|---|---|---------------|-------------|---------------------|------------|---|--|
| | | | | | | | ELECTRICITY | | OIL PRODUCTS | | ELECTRICITY GENERATION 10 ³ tons | OVERALL ENERGY SECTOR 10 ³ tons |
| | | | | | | | FINAL | PER CAPITA | TOTAL (1) | PER CAPITA | | |
| | | | | | | | GWh | kWh/inhab | 10 ³ Boe | Boe/inhab | (D) | (D/A) |
| ARGENTINA | 37944 | 229889 | 290042 | 6059 | 7.6 | 1.3 | 73673 | 1942 | 149993 | 4.0 | 18966 | 111837 |
| BARBADOS | 269 | 1797 | 1872 | 6682 | 7.0 | 1.0 | 772 | 2869 | 2464 | 9.2 | 575 | 1076 |
| BOLIVIA | 8705 | 8253 | 18285 | 948 | 2.1 | 2.2 | 3595 | 413 | 14183 | 1.6 | 1740 | 7622 |
| BRAZIL | 175084 | 763746 | 1168403 | 4362 | 6.7 | 1.5 | 309709 | 1769 | 622791 | 3.6 | 21635 | 304517 |
| COLOMBIA | 43817 | 99574 | 163726 | 2272 | 3.7 | 1.6 | 35632 | 813 | 85542 | 2.0 | 6243 | 54550 |
| COSTA RICA | 4200 | 15463 | 17605 | 3682 | 4.2 | 1.1 | 6259 | 1490 | 12370 | 2.9 | 402 | 5653 |
| CUBA | 11273 | 47265 | 72281 | 4193 | 6.4 | 1.5 | 12305 | 1092 | 32089 | 2.8 | 6895 | 28954 |
| CHILE | 15589 | 92525 | 144491 | 5935 | 9.3 | 1.6 | 40801 | 2617 | 88908 | 5.7 | 11115 | 50335 |
| ECUADOR | 13112 | 19948 | 49373 | 1521 | 3.8 | 2.5 | 8744 | 667 | 46959 | 3.6 | 2970 | 19626 |
| EL SALVADOR | 6518 | 11473 | 21904 | 1760 | 3.4 | 1.9 | 4139 | 635 | 12751 | 2.0 | 1538 | 5871 |
| GRENADA | 94 | 294 | 453 | 3126 | 4.8 | 1.5 | 129 | 1375 | 521 | 5.5 | 79 | 214 |
| GUATEMALA | 11995 | 18609 | 48419 | 1551 | 4.0 | 2.6 | 5620 | 468 | 22836 | 1.9 | 3131 | 10693 |
| GUYANA | 765 | 570 | 5254 | 745 | 6.9 | 9.2 | 707 | 924 | 3774 | 4.9 | 667 | 1588 |
| HAITI | 8668 | 3596 | 12580 | 415 | 1.5 | 3.5 | 295 | 34 | 4048 | 0.5 | 201 | 1687 |
| HONDURAS | 6828 | 4833 | 22070 | 708 | 3.2 | 4.6 | 3548 | 520 | 12454 | 1.8 | 1386 | 5731 |
| JAMAICA | 2621 | 5326 | 17325 | 2032 | 6.6 | 3.3 | 6306 | 2406 | 24180 | 9.2 | 5425 | 10629 |
| MEXICO | 101847 | 477828 | 684664 | 4692 | 6.7 | 1.4 | 160203 | 1573 | 630503 | 6.2 | 106538 | 345612 |
| NICARAGUA | 5347 | 2580 | 15850 | 483 | 3.0 | 6.1 | 1658 | 310 | 8792 | 1.6 | 1474 | 3819 |
| PANAMA | 2942 | 9560 | 18853 | 3250 | 6.4 | 2.0 | 4158 | 1413 | 15771 | 5.4 | 1106 | 6074 |
| PARAGUAY | 5778 | 8519 | 26431 | 1474 | 4.6 | 3.1 | 4407 | 763 | 8689 | 1.5 | 0 | 3759 |
| PERU | 26749 | 63824 | 79156 | 2386 | 3.0 | 1.2 | 19336 | 723 | 53668 | 2.0 | 3090 | 25134 |
| DOMINICAN REPUBLIC | 8677 | 18406 | 39234 | 2121 | 4.5 | 2.1 | 9714 | 1120 | 46075 | 5.3 | 8057 | 17993 |
| SURINAME | 421 | 561 | 4254 | 1332 | 10.1 | 7.6 | 1329 | 3156 | 4093 | 9.7 | 1029 | 2325 |
| TRINIDAD & TOBAGO | 1306 | 7731 | 63711 | 5920 | 48.8 | 8.2 | 4955 | 3794 | 33726 | 25.8 | 4128 | 24152 |
| URUGUAY | 3385 | 16771 | 16213 | 4954 | 4.8 | 1.0 | 6162 | 1820 | 10080 | 3.0 | 27 | 4159 |
| VENEZUELA | 25093 | 69961 | 246279 | 2788 | 9.8 | 3.5 | 62346 | 2485 | 126043 | 5.0 | 24389 | 126342 |
| T O T A L | 529027 | 1998902 | 3248728 | | | | 786502 | | 2073303 | | 232808 | 1179951 |
| REGIONAL AVERAGE | | | | 3778 | 6.1 | 1.6 | | 1487 | | 3.9 | | |

(*) OLADE estimate based on Energy Balances and IPCC Methodology \ Estimación OLADE con base en Balances Energéticos y Metodología IPCC

(1) Final Consumption + Transformation Center Consumption + Own Consumption \ Consumo Final + Consumo en Centros de Transformación + Consumo Propio

(2) Final Energy Consumption / Gross Domestic Product \ Consumo Final de Energía / Producto Interno Bruto

(3) Information of 2002 (base year 1995) \ Información de 2002(año base 1995)

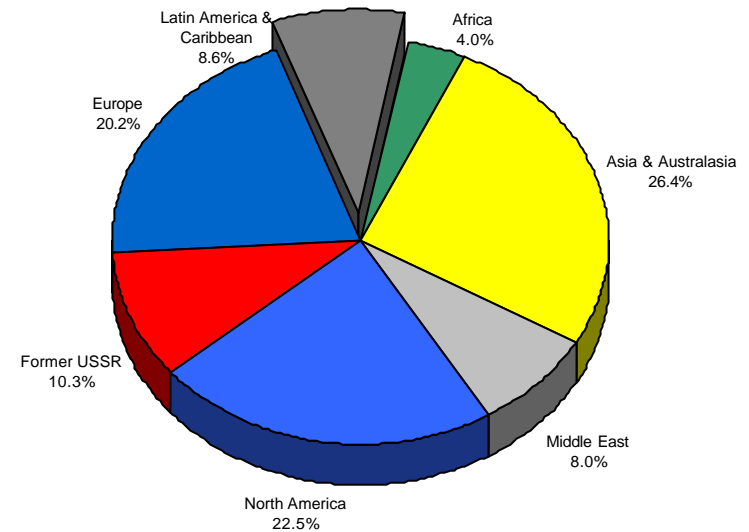
REGIONAL TRADE AND OIL REFINING CAPACITY (10³ bbl/day)

| COUNTRY | OIL REFINING CAPACITY | EXPORTS (1) | | IMPORTS (1) | |
|-----------------|-----------------------|-------------|--------------|-------------|--------------|
| | | OIL | OIL PRODUCTS | OIL | OIL PRODUCTS |
| ARGENTINA | 625.0 | 266.3 | 190.8 | 10.5 | 7.8 |
| BARBADOS | 0.0 | 1.1 | 0.0 | 0.0 | 6.9 |
| BOLIVIA | 54.0 | 1.8 | 0.5 | 0.0 | 4.9 |
| BRAZIL | 1966.0 | 234.9 | 229.6 | 381.8 | 287.9 |
| COLOMBIA | 386.0 | 288.4 | 78.7 | 3.5 | 6.3 |
| COSTA RICA | 25.0 | 0.0 | 2.4 | 9.5 | 30.8 |
| CUBA | 150.0 | 0.0 | 0.0 | 31.2 | 60.1 |
| CHILE | 227.0 | 0.0 | 20.4 | 193.1 | 48.2 |
| ECUADOR | 184.9 | 230.9 | 41.9 | 0.0 | 28.7 |
| EL SALVADOR | 44.0 | 0.0 | 6.4 | 18.7 | 26.1 |
| GRENADA | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 |
| GUATEMALA | 22.5 | 23.1 | 0.0 | 11.0 | 53.4 |
| GUYANA | 0.0 | 0.0 | 0.0 | 0.0 | 10.6 |
| HAITI | 0.0 | 0.0 | 0.0 | 0.0 | 11.3 |
| HONDURAS | 0.0 | 0.0 | 0.4 | 0.0 | 36.1 |
| JAMAICA | 35.0 | 0.0 | 2.0 | 23.2 | 43.7 |
| MEXICO | 1540.0 | 1714.0 | 150.9 | 0.0 | 242.9 |
| NICARAGUA | 20.0 | 0.0 | 0.2 | 15.9 | 8.3 |
| PANAMA | 60.0 | 0.0 | 9.1 | 26.9 | 23.7 |
| PARAGUAY | 7.5 | 0.0 | 0.1 | 2.0 | 24.3 |
| PERU | 197.0 | 21.4 | 38.2 | 73.8 | 28.8 |
| DOMINICAN REP. | 52.0 | 0.0 | 0.0 | 38.7 | 94.7 |
| SURINAME | 7.0 | 1.5 | 1.0 | 0.0 | 5.3 |
| TRINIDAD & TOB. | 175.0 | 68.4 | 88.8 | 88.5 | 3.6 |
| URUGUAY | 37.0 | 0.0 | 7.7 | 21.1 | 9.6 |
| VENEZUELA | 1294.4 | 1755.9 | 678.2 | 0.0 | 0.0 |
| REGIONAL TOTAL | 7109.4 | 4607.9 | 1547.3 | 949.5 | 1105.5 |

(1) Includes intra-regional trade

Oil products: (LPG+Gasolines+Kerosene +Jet Fuel +Fuel Oil+Diesel Oil)

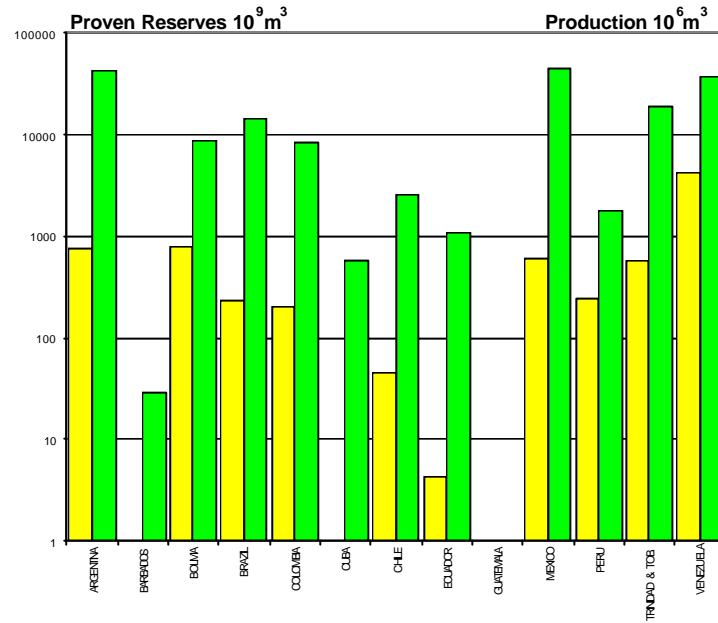
WORLD REFINING CAPACITY



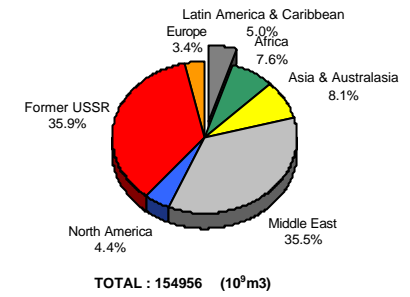
TOTAL : 82990.4 (10³bbl/day)

GAS NATURAL / NATURAL GAS 2002

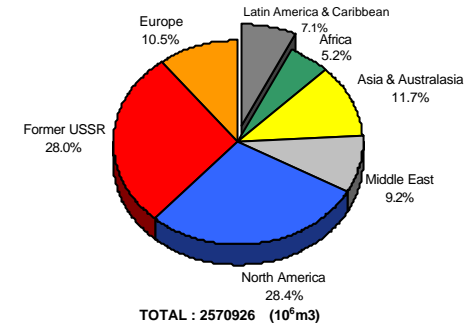
| COUNTRY | PROVEN RESERVES | PRODUCTION | R / P |
|-----------------------|--------------------------------|--------------------------------|-------------|
| | 10 ⁹ m ³ | 10 ⁶ m ³ | Years |
| ARGENTINA | 763.9 | 42253.6 | 18.1 |
| BARBADOS | 0.1 | 29.2 | 4.1 |
| BOLIVIA | 774.8 | 8687.0 | 89.2 |
| BRAZIL | 236.6 | 14328.7 | 16.5 |
| COLOMBIA | 203.6 | 8497.0 | 24.0 |
| COSTA RICA | 0.0 | 0.0 | |
| CUBA | 70.8 | 584.7 | 121.1 |
| CHILE | 45.0 | 2538.9 | 17.7 |
| ECUADOR | 4.3 | 1074.5 | 4.0 |
| EL SALVADOR | 0.0 | 0.0 | |
| GRENADA | 0.0 | 0.0 | |
| GUATEMALA | 0.6 | 0.0 | |
| GUYANA | 0.0 | 0.0 | |
| HAITI | 0.0 | 0.0 | |
| HONDURAS | 0.0 | 0.0 | |
| JAMAICA | 0.0 | 0.0 | |
| MEXICO | 612.4 | 45714.5 | 13.4 |
| NICARAGUA | 0.0 | 0.0 | |
| PANAMA | 0.0 | 0.0 | |
| PARAGUAY | 0.0 | 0.0 | |
| PERU | 246.8 | 1780.9 | 138.6 |
| DOMINICAN REP. | 0.0 | 0.0 | |
| SURINAME | 0.0 | 0.0 | |
| TRINIDAD & TOB. | 576.2 | 19172.6 | 30.1 |
| URUGUAY | 0.0 | 0.0 | |
| VENEZUELA | 4180.9 | 36837.0 | 113.5 |
| REGIONAL TOTAL | 7716.0 | 181498.6 | 42.5 |



WORLD RESERVES

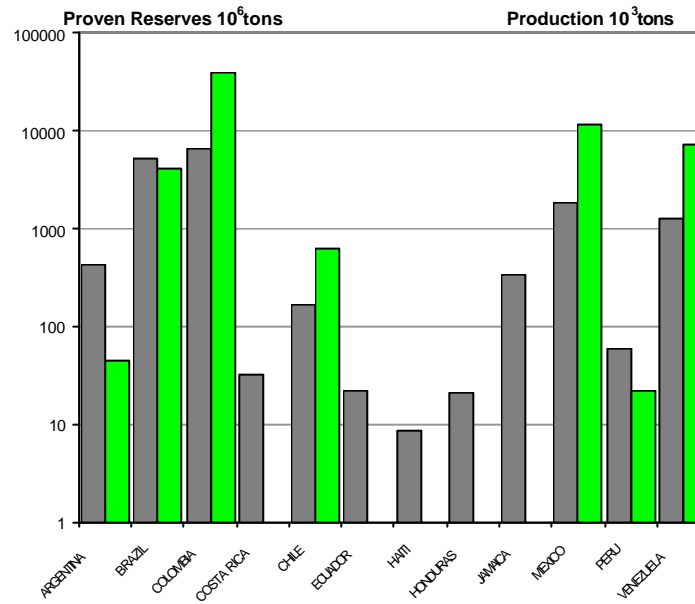


WORLD PRODUCTION

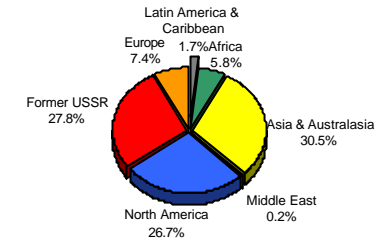


CARBON MINERAL / COAL 2002

| COUNTRY | PROVEN RESERVES 10 ⁶ tons | PRODUCTION 10 ³ tons | R / P Years |
|-----------------------|---|------------------------------------|----------------|
| ARGENTINA | 424.0 | 45.8 | 9265.1 |
| BARBADOS | 0.0 | 0.0 | |
| BOLIVIA | 0.0 | 0.0 | |
| BRAZIL | 5264.0 | 4149.0 | 1268.8 |
| COLOMBIA | 6571.2 | 39532.0 | 166.2 |
| COSTA RICA | 32.8 | 0.0 | |
| CUBA | 0.0 | 0.0 | |
| CHILE | 166.0 | 637.4 | 260.4 |
| ECUADOR | 22.0 | 0.0 | |
| EL SALVADOR | 0.0 | 0.0 | |
| GRENADA | 0.0 | 0.0 | |
| GUATEMALA | 0.0 | 0.0 | |
| GUYANA | 0.0 | 0.0 | |
| HAITI | 8.7 | 0.0 | |
| HONDURAS | 21.0 | 0.0 | |
| JAMAICA | 333.0 | 0.0 | |
| MEXICO | 1848.0 | 11700.0 | 157.9 |
| NICARAGUA | 0.0 | 0.0 | |
| PANAMA | 1.0 | 0.0 | |
| PARAGUAY | 0.0 | 0.0 | |
| PERU | 58.7 | 22.1 | 2656.3 |
| DOMINICAN REP. | 0.0 | 0.0 | |
| SURINAME | 0.0 | 0.0 | |
| TRINIDAD & TOB. | 0.0 | 0.0 | |
| URUGUAY | 0.0 | 0.0 | |
| VENEZUELA | 1295.0 | 7368.9 | 175.7 |
| REGIONAL TOTAL | 16045.4 | 63455.1 | 252.9 |

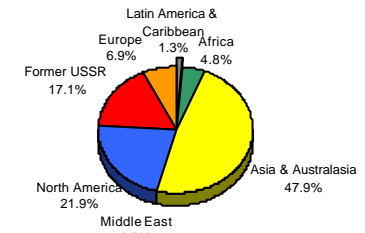


WORLD RESERVES



TOTAL : 960 (10⁹ tons)

WORLD PRODUCTION



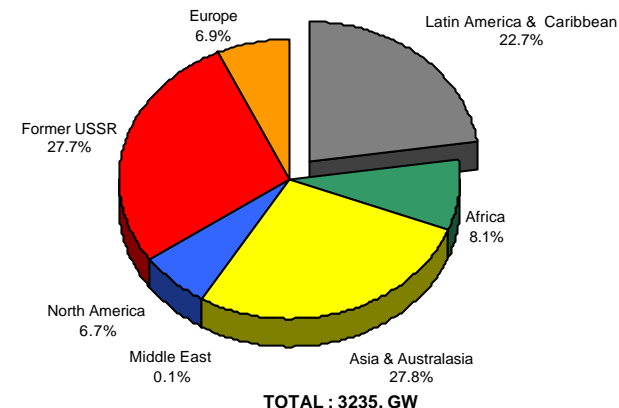
TOTAL : 4830 (10⁶ tons)

ELECTRICIDAD / ELECTRICITY 2002

| COUNTRY | HYDROPOWER POTENTIAL [MW] | INSTALLED CAPACITY BY TYPE OF PLANT [MW] | | | | TOTAL |
|-----------------|---------------------------|--|----------|---------|---------|----------|
| | | HYDRO | THERMO. | NUCLEAR | OTHERS* | |
| ARGENTINA | 44500.0 | 9782.4 | 17016.7 | 1018.0 | 26.3 | 27843.4 |
| BARBADOS | 0.0 | 0.0 | 209.5 | 0.0 | 0.0 | 209.5 |
| BOLIVIA | 39850.0 | 456.6 | 816.7 | 0.0 | 0.0 | 1273.3 |
| BRAZIL | 143380.0 | 65311.0 | 15140.0 | 2007.0 | 0.0 | 82458.0 |
| COLOMBIA | 93085.0 | 9077.3 | 4711.2 | 0.0 | 0.0 | 13788.5 |
| COSTA RICA | 5802.0 | 1260.9 | 295.2 | 0.0 | 207.0 | 1763.0 |
| CUBA | 650.0 | 57.4 | 3901.3 | 0.0 | 0.4 | 3959.1 |
| CHILE | 26046.0 | 4155.0 | 6346.0 | 0.0 | 2.0 | 10503.0 |
| ECUADOR | 21760.0 | 1747.4 | 1486.5 | 0.0 | 0.0 | 3233.9 |
| EL SALVADOR | 2165.2 | 422.3 | 472.2 | 0.0 | 241.7 | 1136.2 |
| GRENADA | 0.0 | 0.0 | 32.0 | 0.0 | 0.0 | 32.0 |
| GUATEMALA | 10890.0 | 511.9 | 974.3 | 0.0 | 26.5 | 1512.7 |
| GUYANA | 7600.0 | 0.5 | 307.5 | 0.0 | 0.0 | 308.0 |
| HAITI | 173.0 | 63.0 | 181.0 | 0.0 | 0.0 | 244.0 |
| HONDURAS | 5000.0 | 465.7 | 577.9 | 0.0 | 0.0 | 1043.6 |
| JAMAICA | 24.0 | 23.2 | 792.5 | 0.0 | 0.0 | 815.7 |
| MEXICO | 51387.0 | 9628.7 | 30349.4 | 1365.0 | 845.5 | 42188.6 |
| NICARAGUA | 1740.0 | 104.0 | 490.6 | 0.0 | 77.0 | 671.6 |
| PANAMA | 2341.0 | 701.0 | 703.1 | 0.0 | 0.0 | 1404.1 |
| PARAGUAY | 12516.0 | 7410.0 | 6.1 | 0.0 | 0.0 | 7416.1 |
| PERU | 61832.4 | 3098.8 | 2814.0 | 0.0 | 22.2 | 5935.0 |
| DOMINICAN REP. | 2010.0 | 542.0 | 4570.2 | 0.0 | 0.0 | 5112.2 |
| SURINAME | 2420.0 | 189.0 | 200.0 | 0.0 | 0.0 | 389.0 |
| TRINIDAD & TOB. | 0.0 | 0.0 | 1416.7 | 0.0 | 0.0 | 1416.7 |
| URUGUAY | 1815.0 | 1538.0 | 634.0 | 0.0 | 0.0 | 2172.0 |
| VENEZUELA | 46000.0 | 12491.0 | 8086.0 | 0.0 | 0.0 | 20577.0 |
| REGIONAL TOTAL | 582986.6 | 129037.1 | 102530.5 | 4390.0 | 1448.6 | 237406.2 |

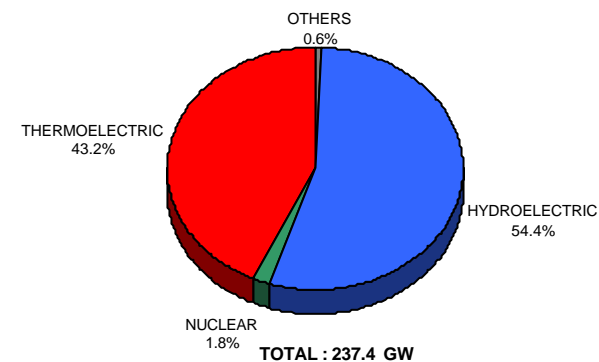
* OTHERS : GEOTHERMAL + SOLAR + WIND

WORLD HYDROPOWER POTENTIAL



SOURCE: International Water Power & Dam Const.[Sep.90]

WORLD INSTALLED CAPACITY



SOURCE : Calculated by OLADE on the basis of US-DOE Information

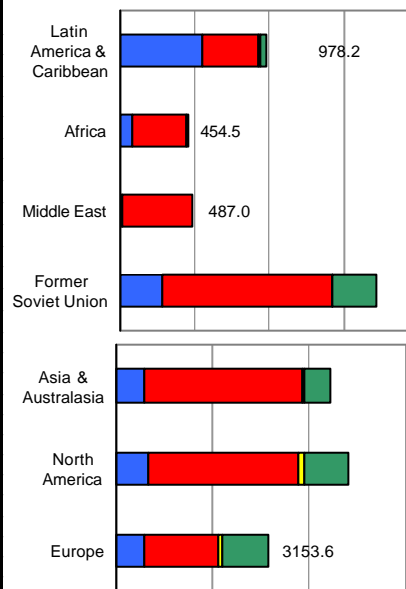
ELECTRICITY / ELECTRICIDAD 2001

**GENERATION
BY TYPE OF PLANT [GWh]**

| COUNTRY | HYDRO | THERMO. | NUCLEAR | OTHERS(*) | TOTAL |
|-----------------------|-----------------|-----------------|----------------|---------------|-----------------|
| ARGENTINA | 37571.5 | 39597.8 | 7176.6 | 84.4 | 84430.3 |
| BARBADOS | 0.0 | 860.0 | 0.0 | 0.0 | 860.0 |
| BOLIVIA | 2244.3 | 1943.8 | 0.0 | 0.0 | 4188.1 |
| BRAZIL | 275609.3 | 53881.6 | 15020.7 | 0.0 | 344511.6 |
| COLOMBIA | 32869.9 | 12372.4 | 0.0 | 0.0 | 45242.3 |
| COSTA RICA | 6091.6 | 118.8 | 0.0 | 1262.1 | 7472.5 |
| CUBA | 76.9 | 15622.9 | 0.0 | 0.0 | 15699.8 |
| CHILE | 22260.7 | 21410.4 | 0.0 | 0.0 | 43671.0 |
| ECUADOR | 7605.2 | 4278.5 | 0.0 | 0.0 | 11883.7 |
| EL SALVADOR | 1340.8 | 2012.6 | 0.0 | 1113.0 | 4466.5 |
| GRENADA | 0.0 | 153.3 | 0.0 | 0.0 | 153.3 |
| GUATEMALA | 2347.0 | 3639.1 | 0.0 | 204.9 | 6191.1 |
| GUYANA | 0.0 | 914.0 | 0.0 | 0.0 | 914.0 |
| HAITI | 180.6 | 289.0 | 0.0 | 0.0 | 469.7 |
| HONDURAS | 1988.9 | 2110.2 | 0.0 | 0.0 | 4099.1 |
| JAMAICA | 343.0 | 6591.0 | 0.0 | 0.0 | 6934.0 |
| MEXICO | 29001.6 | 159309.8 | 9104.9 | 5818.6 | 203235.0 |
| NICARAGUA | 203.4 | 2137.7 | 0.0 | 212.7 | 2553.8 |
| PANAMA | 2624.0 | 2756.4 | 0.0 | 0.0 | 5380.4 |
| PARAGUAY | 48202.7 | 0.5 | 0.0 | 0.0 | 48203.2 |
| PERU | 18628.5 | 3352.3 | 0.0 | 1.3 | 21982.1 |
| DOMINICAN REP. | 1473.3 | 10036.7 | 0.0 | 0.0 | 11510.0 |
| SURINAME | 951.6 | 531.1 | 0.0 | 0.0 | 1482.6 |
| TRINIDAD & TOB. | 0.0 | 5643.4 | 0.0 | 0.0 | 5643.4 |
| URUGUAY | 9546.7 | 57.9 | 0.0 | 0.0 | 9604.7 |
| VENEZUELA | 58727.8 | 28677.7 | 0.0 | 0.0 | 87405.5 |
| REGIONAL TOTAL | 559889.4 | 378299.0 | 31302.2 | 8697.2 | 978187.9 |

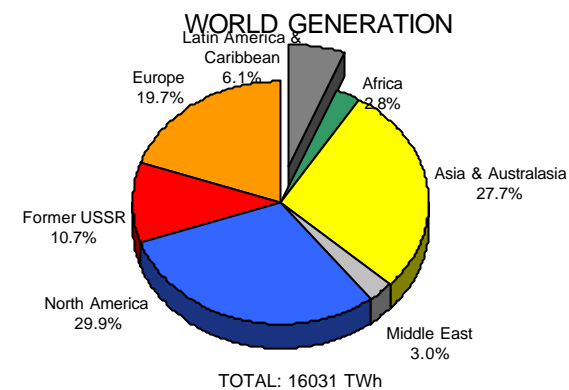
* OTHERS: GEOTHERMAL+SOLAR + WIND

**WORLD GENERATION
BY TYPE OF PLANT [TWh]**

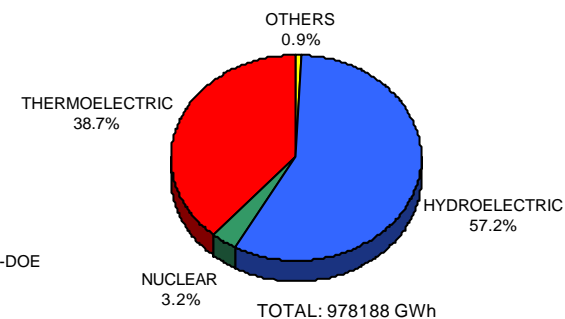


TOTAL: 16031 TWh

SOURCE: Calculated by OLADE on the basis US-DOE revised information



LATIN AMERICA & CARIBBEAN



PRECIOS INTERNOS CON IMPUESTOS AL CONSUMIDOR FINAL (DICIEMBRE/2002) / DOMESTIC CONSUMER PRICES WITH TAXES (DECEMBRE/2002)

| PAIS COUNTRY | MONEDA NACIONAL (M.N.) NATIONAL CURRENCY (N.C.) | PARIDAD M.N./US\$ EXCHANGE RATE N.C./US\$ | COMBUSTIBLES (US\$/Galón) - DOMESTIC FUELS (US\$/Gallon) | | | | | | GAS L.P. L.P.G. US\$/kg | ELECTRICIDAD - ELECTRICITY US cent/kWh | | |
|-------------------|--|---|--|--|---------------|--|-------------|-------------|-------------------------------|---|-------------------------|------------|
| | | | GASOLINA REGULAR REGULAR GASOLINE | GASOLINA EXTRA PREMIUM GASOLINE | DIESEL OIL | KEROSENE DOMESTICO HOUSEHOLD KEROSENE | JET FUEL | FUEL OIL | | RESIDENCIAL RESIDENTIAL | COMERCIAL COMMERCIAL | INDUSTRIAL |
| | | | | | | | | | | | | |
| ARGENTINA | Pesos | 3.32 | 1.86 | 2.15 | 1.53 | 1.33 | 1.03 | 0.68 | 0.30 | 3.70 | 3.99 | 1.86 |
| BARBADOS | Barbadian Dollar | 2.00 | n/a | 2.63 | 2.03 | 1.19 | 0.40 | 0.80 | 1.26 | 18.81 | 19.97 | 19.66 |
| BOLIVIA | Boliviano | 7.49 | 1.67 | 2.69 | 1.58 | 1.17 | 1.43 | 1.48 | 0.28 | 5.57 | 8.66 | 4.12 |
| BRASIL | Real | 3.53 | 2.14 | 2.25 | 1.49 | 0.58 | 0.75 | 0.40 | 0.79 | 7.24 | 6.08 | 3.08 |
| COLOMBIA | Peso Colombiano | 2813.90 | 1.23 | 1.68 | 0.85 | 0.91 | 0.87 | 0.62 | 0.27 | 6.58 | 7.90 | 5.81 |
| COSTA RICA | Colón | 378.72 | 2.19 | 2.29 | 1.60 | 1.59 | 1.52 | 0.61 | 0.73 | 6.13 | 8.95 | 7.01 |
| CUBA | Peso Cubano | 1.00 | 1.51 | 1.89 | 1.03 | 0.32 | 1.05 | 0.66 | 0.24 | 13.71 | 9.96 | 7.65 |
| CHILE | Peso Chileno | 712.38 | 2.19 | 2.18 | 1.48 | 1.31 | 0.93 | 0.63 | 0.73 | 8.77 | 8.43 | 5.35 |
| ECUADOR | Dólar | 1.00 | 1.12 | 1.46 | 0.90 | n/a | 1.08 | 0.53 | 0.11 | 8.83 | 8.48 | 8.08 |
| EL SALVADOR | Colón Salvador. | 8.75 | 2.36 | 2.39 | 2.11 | 1.76 | 0.89 | 1.30 | 0.39 | 13.61 | 12.45 | 12.58 |
| GRENADA | Grenadian Dollar | 2.70 | n/a | 2.03 | 1.54 | 1.14 | n/d | n/d | 0.98 | 22.14 | 23.38 | 18.77 |
| GUATEMALA | Quetzal | 7.81 | 1.93 | 1.98 | 1.29 | 1.46 | 1.42 | 1.00 | 0.57 | 7.98 | 6.25 | 7.51 |
| GUYANA | Guyanese Dollar | 191.75 | n/a | 1.42 | 1.14 | 0.91 | 2.25 | 0.75 | 1.03 | 5.89 | 8.96 | 7.89 |
| HAITI | Gourde | 37.61 | 2.15 | 2.26 | 1.48 | 1.36 | 1.36 | 0.32 | 0.36 | 6.72 | 9.91 | 9.48 |
| HONDURAS | Lempira | 16.92 | 2.26 | 2.38 | 1.52 | 1.27 | 0.83 | 0.94 | 0.55 | 6.91 | 9.76 | 5.70 |
| JAMAICA | Jamaican Dollar | 50.76 | 1.65 | 1.79 | 1.60 | 1.48 | 1.16 | 0.82 | 0.61 | 16.09 | 13.72 | 11.02 |
| MEXICO | Nuevo Peso | 10.31 | n/a | 2.41 | 1.78 | n/a | 1.08 | 0.62 | 1.11 | 8.49 | 13.53 | 6.88 |
| NICARAGUA | Córdoba de Oro | 14.67 | 2.00 | 2.11 | 1.75 | 1.67 | 1.19 | 0.53 | 0.56 | 13.14 | 12.72 | 9.42 |
| PANAMA | Balboa | 1.00 | 1.69 | 1.87 | 1.28 | 0.99 | 1.00 | 0.75 | 0.63 | 12.08 | 11.76 | 9.90 |
| PARAGUAY | Guaraní | 6900.00 | 1.57 | 1.62 | 1.12 | 0.47 | 0.46 | 0.40 | 0.45 | 4.78 | 5.33 | 3.45 |
| PERU | Nuevo Sol | 3.51 | 2.29 | 2.96 | 1.95 | 1.96 | n/d | 0.86 | 0.86 | 11.44 | 7.72 | 7.32 |
| REP. DOMINICANA | Peso Dominicano | 21.19 | 1.51 | 1.79 | 1.13 | 1.13 | 0.96 | 0.77 | 0.46 | 31.34 | 14.11 | 12.32 |
| SURINAME | Florin | 401.00 | n/a | 2.11 | 1.55 | 1.36 | 1.36 | 0.25 | 0.72 | 17.08 | 17.30 | 13.13 |
| TRINIDAD Y TOBAGO | Trinidad Dollar | 6.30 | 1.41 | 1.47 | 0.77 | 0.69 | 1.26 | 0.51 | 0.37 | 2.74 | 3.01 | 2.31 |
| URUGUAY | Peso Uruquavo | 27.20 | 2.68 | 2.97 | 1.38 | 1.51 | 1.19 | 0.48 | 0.58 | 9.48 | 6.41 | 3.55 |
| VENEZUELA | Bolívar | 1401.25 | 0.16 | 0.22 | 0.13 | 0.31 | 0.32 | 0.13 | 0.16 | 5.50 | 7.90 | 2.80 |

1 barrel=42 US gallons=158.98 liters / 1 barril=42 galones US=158.987 litros.

NOTAS: n/a no aplicable
n/d no disponible
* datos preliminares

NOTES: n/a not applicable
n/d not available
* preliminary data