

Table 1, Energy Balance, 1988

(thousand metric tons of oil equivalent)

| | Production of primary energy | Imports | Exports | Marine Aviation Bunkers | Change in stocks | Total energy requirements |
|---------------------------|---------------------------------|---------|---------|-------------------------------|---------------------|------------------------------|
| Hard coal, lignite & peat | | 66.5 | | | 13.3 | 79.8 |
| Coke briquettes and coke | | 41.6 | | | 0.6 | 42.2 |
| Crude oil | 717.0 | 8500.4 | -1150.1 | | -100.0 | 7967.3 |
| Light oil products | | 559.8 | -526.4 | -88.8 | -0.4 | -55.8 |
| Heavy oil products | | 4867.7 | -1572.9 | -121.4 | 72.8 | 3246.2 |
| Other oil products | | | | | 3.0 | 3.0 |
| LPG & oil gases | | | | | 2.2 | 2.2 |
| Natural gas | 19.3 | | | | | 19.3 |
| Electricity | 6.3 | | | | | 6.3 |
| Primary biomass | 4651.6 | | | | 0.9 | 4652.5 |
| Derived biomass | | | | | 1.4 | 1.4 |
| Total | 5394.2 | 14036.0 | -3249.4 | -210.2 | -6.2 | 15964.4 |

Source: United Nations, Energy Balances and Electricity Profiles, 1988 (New York: United Nations, 1990), pp.80-81.

Table 2. Apparent Consumption of Oil and Oil Products, 1959-88

(thousand metric tons)

| Year | Domestic production | Imports | Exports | Apparent consumption | Domestic production as percentage of consumption |
|------|------------------------|---------|---------|-------------------------|---|
| 1959 | 28 | 3010 | 767 | 2271 | 1.2 |
| 1960 | 25 | 5428 | 164 | 5289 | 0.5 |
| 1961 | 28 | 3869 | | 3897 | 0.7 |
| 1962 | 43 | 4456 | | 4499 | 0.7 |
| 1963 | 31 | 4078 | 7 | 4102 | 0.8 |
| 1964 | 37 | 4543 | 22 | 4558 | 0.8 |
| 1965 | 57 | 4526 | | 4583 | 1.2 |
| 1966 | 69 | 5020 | | 5089 | 1.4 |
| 1967 | 116 | 5060 | | 5176 | 2.2 |
| 1968 | 198 | 5207 | | 5405 | 3.7 |
| 1969 | 206 | 5604 | | 5810 | 3.6 |
| 1970 | 159 | 6001 | | 6160 | 2.6 |
| 1971 | 120 | 6805 | | 6925 | 1.7 |
| 1972 | 112 | 6720 | | 6832 | 1.6 |
| 1973 | 138 | 7186 | 90 | 7234 | 1.9 |
| 1974 | 168 | 7814 | 45 | 7937 | 2.1 |
| 1975 | 226 | 7789 | 36 | 7979 | 2.8 |
| 1976 | 235 | 8419 | 63 | 8591 | 2.7 |
| 1977 | 256 | 9375 | 917 | 8714 | 2.9 |
| 1978 | 288 | 9843 | 479 | 9652 | 3.0 |
| 1979 | 288 | 9826 | 249 | 9865 | 2.9 |
| 1980 | 274 | 10448 | 885 | 9837 | 2.8 |
| 1981 | 259 | 10999 | 906 | 10352 | 2.5 |
| 1982 | 541 | 11556 | 1978 | 10119 | 5.3 |
| 1983 | 742 | 12329 | 3119 | 9952 | 7.5 |
| 1984 | 770 | 12474 | 2797 | 10447 | 7.4 |
| 1985 | 868 | 13500 | 3511 | 10857 | 8.0 |
| 1986 | 938 | 13157 | 3698 | 10397 | 9.0 |
| 1987 | 895 | 13510 | 3177 | 11228 | 8.0 |
| 1988 | 717 | 13442 | 2385 | 11744 | 6.1 |

Source: 1959-87: Comité Estatal de Estadísticas, Compendio estadístico de energía 1989. 1988: United Nations, 1989 Energy Statistics Yearbook.

Table 3. Energy and Sugar Trade, 1980-88

(in million pesos)

| | Total Imports | Energy Imports | % Energy/ Total imports | Total exports | Sugar exports | % Sugar/total exports | Sugar/energ y |
|------|------------------|-------------------|-------------------------------|------------------|------------------|--------------------------|------------------|
| 1980 | 4627.0 | 911.5 | 19.7 | 3966.7 | 3279.2 | 82.7 | 3.6 |
| 1981 | 5114.0 | 1166.2 | 22.8 | 4223.8 | 3300.8 | 78.1 | 2.8 |
| 1982 | 5530.6 | 1497.9 | 27.1 | 4933.2 | 3771.5 | 76.5 | 2.5 |

| | | | | | | | |
|------|--------|--------|------|--------|--------|------|-----|
| 1983 | 6222.1 | 1857.5 | 29.9 | 5534.1 | 4078.2 | 73.7 | 2.2 |
| 1984 | 7227.5 | 2219.1 | 30.7 | 5476.5 | 4090.1 | 74.7 | 1.8 |
| 1985 | 8035.0 | 2655.6 | 33.1 | 5991.5 | 4441.5 | 74.1 | 1.7 |
| 1986 | 7596.1 | 2533.5 | 33.4 | 5321.5 | 4069.1 | 76.5 | 1.6 |
| 1987 | 7583.6 | 2621.0 | 34.6 | 5402.1 | 3987.3 | 73.8 | 1.5 |
| 1988 | 7579.8 | 2588.9 | 34.2 | 5518.1 | 4086.5 | 74.1 | 1.6 |

Source: Based on data in Comité Estatal de Estadísticas, Anuario estadístico de Cuba 1988 and earlier issues.

Table 4. Convertible currency exports

(in million pesos)

| | Total Exports | Sugar Value | Percent | Oil & oil products value | Percent |
|------|---------------|-------------|---------|--------------------------|---------|
| 1981 | 1405.8 | 866.3 | 62 | 151.4 | 11 |
| 1982 | 1355.9 | 648.3 | 48 | 262.1 | 19 |
| 1983 | 1233.9 | 263.2 | 21 | 497.7 | 40 |
| 1984 | 1135.7 | 250.0 | 22 | 484.4 | 43 |
| 1985 | 1244.4 | 171.2 | 14 | 526.9 | 42 |
| 1986 | 907.3 | 209.9 | 23 | 248.5 | 27 |
| 1987 | 964.7 | 222.5 | 23 | 286.3 | 30 |
| 1988 | 1113.3 | 393.4 | 35 | 184.9 | 17 |

Source: Banco Nacional de Cuba, Economic Report (May 1989) and earlier issues.

Table 5. Consumption of Oil and Oil Products in 1988

(in thousand metric tons)

| | Industry | Construction | Agriculture | Transportation | Population | Other | Total |
|-------------------------|----------|--------------|-------------|----------------|------------|--------|---------|
| Crude oil | | 7.3 | | | | 0.1 | 7.4 |
| Nat. gas | 20.9 | 0.4 | | | | 0.6 | 21.9 |
| Fuel oil | 5356.4 | 31.8 | 12.0 | 233.4 | | 258.6 | 5892.2 |
| Diesel fuel | 831.5 | 308.8 | 358.0 | 512.6 | 3.0 | 482.9 | 2496.8 |
| Motor gasoline | 166.8 | 138.5 | 87.8 | 236.9 | 149.0 | 362.5 | 1141.5 |
| Kerosene | 7.6 | 2.4 | 1.3 | 0.5 | 632.8 | 8.6 | 653.2 |
| Naphtha | 183.9 | | | | | | 183.9 |
| Aviation gasoline | | | 7.9 | 4.0 | | | 11.9 |
| Jet fuel | | | | 336.6 | | | 336.6 |
| Liquidified natural gas | 14.9 | 0.3 | 0.3 | 0.3 | 98.0 | 17.7 | 131.5 |
| Solvents | 8.3 | 1.2 | 0.5 | 1.56 | 0.2 | 3.7 | 15.4 |
| Asphalt | 16.0 | 236.3 | | | | 1.4 | 253.7 |
| Total | 6606.3 | 727.0 | 467.8 | 1325.8 | 883.0 | 1136.1 | 11146.0 |

Source: Comité Estatal de Estadísticas, Compendio estadístico de energía, 1989.

Table 6. Structure of Consumption of Oil Products

(percent)

| | Industry | Construction | Agriculture | Transportation | Population | Other | Total |
|-------------------------|----------|--------------|-------------|----------------|------------|-------|-------|
| Crude oil | | 1.0 | | | | | 0.1 |
| Natural gas | 0.3 | | | | | | 0.2 |
| Fuel oil | 81.1 | 4.4 | 2.6 | 17.6 | | 22.6 | 52.9 |
| Diesel fuel | 12.6 | 42.5 | 76.5 | 38.7 | 0.3 | 42.5 | 22.4 |
| Motor gasoline | 2.5 | 19.1 | 18.8 | 17.9 | 16.9 | 31.9 | 10.2 |
| Kerosene | 0.1 | 0.3 | 0.3 | | 71.7 | 0.8 | 5.9 |
| Naphtha | 2.8 | | | | | | 1.6 |
| Aviation gasoline | | | 1.7 | 0.3 | | | 0.1 |
| Jet fuel | | | | 25.4 | | | 3.0 |
| Liquidified natural gas | 0.2 | | | | 11.1 | 1.6 | 1.2 |
| Solvents | 0.1 | 0.2 | 0.1 | 0.1 | | 0.3 | 0.1 |
| Asphalt | 0.3 | 32.5 | | | | 0.1 | 2.3 |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

Sources: Computed from data in Table 5.

Table 7. Electric Industry Statistic.

| | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 |
|-----------------------------------|-------|-------|-------|-------|-------|-------|
| Inatalled generation capacity (a) | 3000 | 3111 | 3229 | 3419 | 3532 | 3853 |
| Hydroelectric | 46 | 45 | 45 | 46 | 49 | 49 |
| Thermoelectric | 2954 | 3066 | 3184 | 3373 | 3483 | 3804 |
| Gross electricity production (b) | 11551 | 12292 | 12199 | 13176 | 13594 | 14453 |
| Hydroelectric | 63 | 70 | 54 | 59 | 44 | 73 |
| Thermoelectric | 11488 | 12222 | 12145 | 13117 | 13550 | 14470 |
| Liquid fuel input (c) | 2634 | 2805 | 2753 | 3032 | 3112 | 3337 |
| Crude oil | | | | 127 | 152 | 73 |
| Residual fuel oil | 2634 | 2805 | 2753 | 2905 | 2990 | 3264 |

(a) In thousand kilowatts

(b) In million kilowatt-hours

(c) In thousand metric tons

Source: United Nations, Energy Balances and Electricity Profiles 1988.