

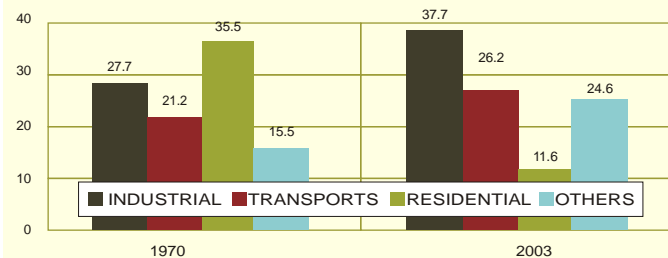


# BRAZILIAN ENERGY DATA PROFILE

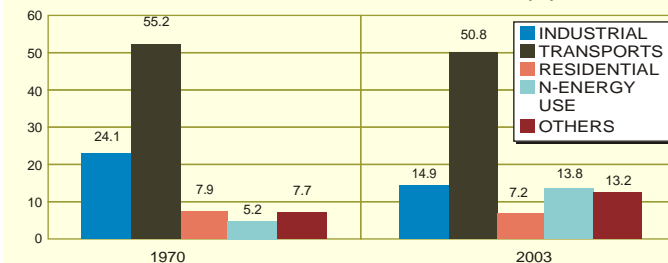
2004 edition

Ministério de Minas e Energia

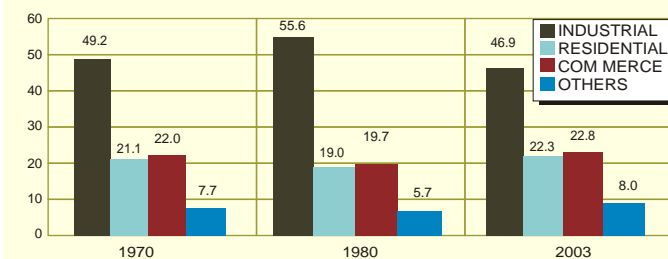
FINAL ENERGY CONSUMPTION (%)



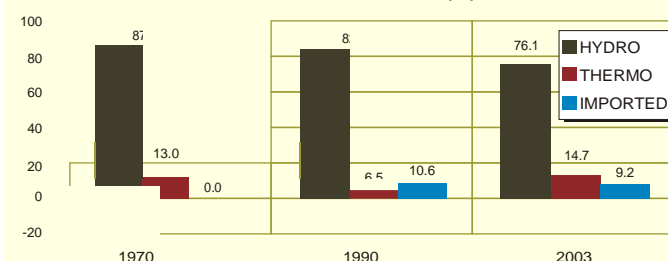
FINAL CONSUMPTION OF OIL DERIV. (%)



ELECTRICITY CONSUMPTION (%)



ELECTRICITY SUPPLY (%)



FINAL ENERGY CONSUMPTION BY SECTOR - %

SECTOR	1970	1980	1990	2000	2003
<b>TOTAL - 10<sup>6</sup> toe</b>	<b>62.1</b>	<b>104.4</b>	<b>127.6</b>	<b>171.9</b>	<b>180.8</b>
INDUSTRIAL	27.7	37.7	37.7	37.7	37.7
TRANSPORTS	21.2	24.6	25.8	27.6	26.2
RESIDENTIAL	35.5	20.1	14.1	12.0	11.6
COMMERCE AND PUBLIC	2.0	2.8	3.7	4.8	4.6
NON-ENERGY USE	2.4	5.4	7.8	8.3	6.8
ENERGY SECTOR	2.5	5.6	9.4	7.5	8.8
AGRICULTURE	8.6	5.5	4.7	4.3	4.5

FINAL ENERGY CONSUMPTION - %

SOURCE AND SECTOR	1970	1980	1990	2000	2003
<b>TOTAL - 10<sup>6</sup> toe</b>	<b>62.1</b>	<b>104.4</b>	<b>127.6</b>	<b>171.9</b>	<b>180.8</b>
COAL - 10 <sup>6</sup> toe	1.6	4.6	7.6	10.8	11.0
INDUSTRIAL	90.3	93.3	94.0	95.8	95.6
ENERGY SECTOR AND OTHERS	9.7	6.7	6.0	4.2	4.4
<b>OIL DERIVATIVES - 10<sup>6</sup> toe</b>	<b>23.5</b>	<b>53.0</b>	<b>57.3</b>	<b>84.2</b>	<b>79.2</b>
INDUSTRY	24.1	27.7	14.8	16.4	14.9
OF WHICH: ENERGY-INTENSITY (*)	43.0	34.1	33.0	39.8	43.7
TRANSPORTS	55.2	45.6	47.1	48.9	50.8
RESIDENTIAL	7.9	5.9	9.2	7.6	7.2
NON-ENERGY USE	5.2	9.2	14.9	15.2	13.8
ENERGY SECTOR	4.8	6.0	6.3	4.8	5.6
AGRICULTURE AND OTHERS	2.9	5.6	7.8	7.1	7.7
<b>NATURAL GAS - 10<sup>6</sup> toe</b>	<b>0.1</b>	<b>0.9</b>	<b>3.1</b>	<b>7.1</b>	<b>10.9</b>
INDUSTRY	3.8	36.2	44.5	54.4	54.0
TRANSPORTS	0.0	0.0	0.1	3.9	10.7
RESIDENTIAL	0.0	0.0	0.1	1.4	1.6
NON-ENERGY USE	3.8	45.1	28.9	10.3	6.4
ENERGY SECTOR	92.5	18.7	26.3	29.0	25.1
OTHERS	0.0	0.0	0.1	1.1	2.2
<b>ELECTRICITY - 10<sup>6</sup> toe</b>	<b>3.4</b>	<b>10.5</b>	<b>18.7</b>	<b>28.5</b>	<b>29.4</b>
INDUSTRY	49.2	55.6	51.6	44.2	46.9
OF WHICH: ENERGY-INTENSITY (*)	44.1	45.8	49.1	45.4	45.6
RESIDENTIAL	21.1	19.0	22.4	25.2	22.3
COMMERCE AND PUBLIC	22.0	19.7	19.3	23.1	22.8
ENERGY SECTOR	5.2	3.4	3.1	3.2	3.5
AGRICULTURE AND OTHERS	2.4	2.3	3.6	4.3	4.5
<b>BIOMASS - 10<sup>6</sup> toe</b>	<b>33.5</b>	<b>35.4</b>	<b>40.9</b>	<b>41.3</b>	<b>50.3</b>
INDUSTRY	25.1	35.0	41.3	49.8	51.9
OF WHICH: ENERGY-INTENSITY (*)	17.3	35.3	45.1	40.4	37.9
TRANSPORTS	0.4	4.0	14.3	14.1	11.5
RESIDENTIAL	58.2	44.7	21.0	16.9	16.8
ENERGY SECTOR	0.3	5.7	16.4	13.4	14.7
AGRICULTURE AND OTHERS	16.0	10.5	7.0	5.9	5.2

(\*) It includes cement, siderurgy, chemistry and paper and pulp

ELECTRICITY SUPPLY - %

SOURCE	1970	1980	1990	2000	2003
<b>TOTAL - TWh</b>	<b>45.7</b>	<b>139.2</b>	<b>249.4</b>	<b>393.2</b>	<b>402.1</b>
COAL	3.0	1.9	1.2	2.0	1.4
OIL DERIVATIVES	8.2	3.8	2.0	3.9	2.7
NATURAL GAS	0.0	0.0	0.1	1.0	3.3
URANIUM	0.0	0.0	0.9	1.5	3.3
HYDRO	87.0	92.6	82.9	77.4	76.1
OTHERS	1.8	1.9	2.3	2.9	4.0
NET IMPORT	0.0	-0.2	10.6	11.3	9.2
PUBLIC GENERATION IN RELATION TO TOTAL	91.9	94.2	84.6	82.4	81.9

INSTALLED CAPACITY FOR GENERATION - %

SPECIFICATION	1970	1980	1990	2000	2003
<b>TOTAL - GW</b>	<b>11.05</b>	<b>33.47</b>	<b>53.05</b>	<b>73.71</b>	<b>86.51</b>
HYDRO	80.0	82.6	85.9	82.8	78.4
PUBLIC UNITS	76.8	80.9	84.7	81.5	77.0
SELF-PRODUCERS	3.2	1.7	1.2	1.3	1.4
THERMO	20.0	17.4	14.1	17.2	21.6
PUBLIC UNITS	14.7	10.4	9.1	11.6	15.8
Average efficiency - %	25	28	28	30	35
SELF-PRODUCERS	5.4	7.0	5.0	5.5	5.8
Average efficiency - %	33	42	40	39	41

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