

INFORMATION

ENERGY

Community programme for rational use of energy (RUE) (1)

75/74

The Commission's 22 point action programme of priority measures designed to promote a rational use of energy within the Community makes a wide ranging analysis and proposals of energy use within the Community including the domestic, transport, industrial and energy sectors. Implementation of the programme could lead to a saving by 1985 of 15 % of Community needs, which means some 240 Mtoe(2). Annual growth in energy consumption would be reduced from 3.8 % to 3 % between 1973 and 1985.

The Commission believes that the results of the rational use of energy programme - on the economic, environmental and social level - can only be positive. This programme has been elaborated taking into account employment effects, which should in the present programme not be negative. Rational use of energy measures should be regarded as investments which will benefit the environment by reducing waste.

The Commission estimates that the implementation of this rational use of energy programme will allow a saving of \$ 22 milliard in 1985. The major part of such a saving would result from a reduction in oil consumption, some 120 Mtoe in 1985. An import saving, the result of reduced oil imports, worth \$ 8 Mrd. will also result.

(1) COM(74) 1950

(2) Mtoe=Millions of tons of oil equivalent; 1toe=1,4 tce(tons of coal equivalent)

POTENTIAL ENERGY ECONOMIES FROM THE COMMISSION'S
RUE PROGRAMME

SECTOR	1985 Internal Consumption *) Mtoe -Estimate without RUE	Realisable economy (Mtoe)	% by sector	1985 Internal Consumption Mtoe with RUE
Domestic	516	90	18	426
Transport	217	35	16	182
Industry	541	84	15	457
Energy industry	<u>186</u>	<u>11</u>	<u>6</u>	<u>175</u>
Total Energy Consumption	1460	220	15	1240
Non-Energy Consumption	<u>140</u>	<u>20</u>	<u>14</u>	<u>120</u>
Total	1600	240	15	1360

*) bunkers and exports to third countries not included.

The 22 point actions programme - actions chosen for their ease of implementation, high degree of resulting energy economies, and viability - leads to major energy economies in domestic, transport and industrial sectors.

In the domestic sector, RUE calls for action in thermal insulation, regulated ventilation, regulated heating, maintenance of heating systems, hot water production efficiency, and energy efficient appliances and installations. Measures in these areas would account for an 18 % energy saving 1985. Insulating layers in roofs can, for example, reduce heat loss by more than 10 %. Double glazing reduces heat loss by almost 5 %.

In the transport sector, the action programme outlines six areas of major importance for energy savings: ignition timing and carburettor setting; vehicle construction; promotion of diesel engines; the heating of public transport vehicles; private and public urban transport; urban traffic flow. The Commission estimates that effective measures in the transport sector will allow a 16 % energy economy in 1985. The energy efficient motorist can by careful, regular servicing of his car to maintain optimum ignition timing and carburettor setting reduce fuel consumption by 5-10 %.

Combustion efficiency, residual heat recovery, plant insulation, operating plant efficiency, production processes, combined production of heat and power and the recycling of materials are seven areas of industrial interest singled out by the rational use of energy policy. Efficient combustion, for example, can reduce fuel consumption by 5 to 10 %. The industrial sector can contribute a 15 % (84 Mtoe) energy economy in 1985 if the RUE programme is followed.

It is proposed that the energy industry itself becomes more energy efficient. Three actions in particular are detailed in the action programme: efficiency of plant; combined production of heat and power; the recovering of residual heat. In terms of 1985 energy consumption at least a 6 % (11 Mtoe) saving in the energy industry is realisable if these three actions are pursued.

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