

INDUSTRIAL WASTE HEAT

The *CFE* is developing practical co-generation systems at its thermodynamics laboratory in Baja Entalpia. A related promotion program is fostering the adoption of these technologies by industry.

WIND ENERGY

The *CFE* is experimenting with a number of different wind generator types, including a 100 kilowatt horizontal-axis design. It is focussing on lowering production costs by using advanced materials.

ANAEROBIC SLUDGE

The *CFE* has conducted laboratory experiments that suggest that sewage treatment plants can reduce their electricity consumption by up to 70 percent by generating electricity from their own sludge. This system will reportedly improve the quality of the treated water as well.

Except for natural gas, these alternative forms of energy are being promoted mainly for use in private installations, rather than those operated by the *CFE*. In 1993, the *CFE* had installed geothermal capacity of 748 megawatts, which produced some 2.6 percent of the nation's electricity. Although geothermal capacity is projected to increase by about 24 percent by 1999, the Commission's 1994 annual report does not mention any ongoing programs to encourage its development.

CFE INSTALLED CAPACITY BY TYPE

| | 1994 | | Projected 1999 | |
|--------------|---------------|------------|----------------|------------|
| | Megawatts | Percentage | Megawatts | Percentage |
| Thermal | 17,694 | 54.1 | 18,081 | 41.2 |
| Hydro | 8,859 | 27.1 | 10,900 | 24.8 |
| Dual | 1,400 | 4.3 | 9,250 | 21.1 |
| Coal | 2,600 | 7.9 | 3,300 | 7.5 |
| Geothermal | 830 | 2.5 | 1,030 | 2.3 |
| Nuclear | 1,350 | 4.1 | 1,350 | 3.1 |
| Total | 32,733 | 100 | 43,911 | 100 |

Source: Comisión Federal de Electricidad (CFE), Federal Electricity Commission.