

City of Phoenix Energy Conservation Program
Annual savings, 1978–1989, at major municipal facilities

Facility	Estimated Energy Savings (kWh)	Energy Use without Savings (kWh)	Cost Avoidance (Dollars)	Energy Savings (%)
Human Resources Dept.	847,524	1,927,284	79,667	44
Municipal Building	5,776,977	13,572,977	543,036	43
Cultural Centers	1,742,941	4,152,501	163,836	42
Libraries	2,642,179	6,951,008	248,365	38
Police Department	6,887,013	13,501,944	647,379	34
Service Center	474,556	2,153,524	44,608	28
Fire Stations	430,230	3,772,016	40,442	11
Other Downtown Buildings	4,465,897	9,529,643	419,794	47

The 1989 Summer Institute on Energy and Design was held in July at the University of Washington in Seattle in cooperation with the university's School of Architecture. Nine faculty-led workshops were presented during the institute. About 60 architectural educators and guests participated in the workshops, lectures, field trips, and presentations.

City-wide Energy Conservation: Phoenix, Arizona

As a result of skyrocketing oil prices throughout the 1970s, the city of Phoenix, Arizona, made a firm commitment to energy conservation. Since 1978, Phoenix has saved more than \$30 million through a comprehensive energy conservation program costing \$4.5 million. A series of annual DOE grants provided a \$652,000 supplement to the city's investment through the Urban Consortium Energy Task Force. These DOE grants resulted in more than \$3 million in

energy savings and cost avoidance since 1981. The projects focused on energy savings in the areas of wastewater treatment, water treatment and pumping efficiency, and heating and cooling efficiency in municipal buildings. In 1983, the city established the Energy Conservation Reinvestment Plan to reinvest 50% of general fund energy savings into new projects.

In 1989, the city successfully completed two projects: it demonstrated a small-scale cogeneration project that incorporated thermal energy storage and absorption cooling, which reduces the use of CFCs (chlorofluorocarbons), and a district cooling assessment project, which is ready for implementation.

Phoenix has also participated in workshops sponsored by the Energy Task Force to help other cities develop conservation programs. The Phoenix program demonstrates that city-wide energy conservation is feasible and economically sound.