

Large Metro County Energy Study

The county retained AHP to investigate the mechanical equipment and energy usage at the former county jail building in order to lower energy consumption and operating costs.

The building is no longer used as a jail and is only partially occupied. With the current building usage and occupancy, the air conditioning equipment is oversized, the space is over ventilated and the system is very inefficient.

AHP recommended several energy conservation measures to improve efficiency and reduce energy costs:

- ❖ Provide variable frequency drives on existing fans and air handling units.
- ❖ Modify exhaust fans to reduce building exhaust to match current conditions.
- ❖ Upgrade air handling unit controls to improve performance and add night setback.
- ❖ Install energy recovery equipment to recover waste heating and cooling in exhaust air.
- ❖ Add outside air pretreatment.

Energy cost savings resulting from improvements will recover capital investment in less than three years.

Completion Date

November 2005

Project Delivery Method

N/A