

# **GOVERNOR'S ENERGY EFFICIENCY RECOGNITION**

## **City of North Newton City Hall**

North Newton's Vision Statement speaks of "respect for physical environment". These principles support construction of environmentally friendly green buildings--a concept that incorporates a building complete life cycle aimed at better use of energy, water, and construction materials.

Benefits come through better siting, design, construction, operation, maintenance, and eventual removal of the old structure. This concept was emphasized -- and strongly embraced by the architect and construction company -- in the design and construction of North Newton's new City Hall, a single-story structure of 4100 square feet.

Building green of the new City Hall began with the removal of the old structure and use of the same site for the new building. Much of the interior of the old building was donated to Habitat for Humanity. The structural and exterior components were reassembled at another location thereby minimizing landfill deposits.

The old concrete floor slab was preserved. Recycled materials were used extensively in the cellulose insulation in walls and attics, the porcelain tile floors, the acoustical tile, carpeting, and manufactured stone. Extensive use was made of fly ash to lessen demand for new concrete.

Many heating and cooling efficiencies were incorporated in the rebuilding -- such as of insulated concrete forms in wall construction, automatic illumination sensors light fixtures, space occupancy, and air quality sensors, low E window glass, computer designed sun shades on exterior walls and shelves on interior walls that enhance control of sunlight.

The green features of North Newton City Hall have added a small costs over "standard" construction technology. It is expected that these costs will be recovered in relatively few years through reduced operation expenditures.