

CONSTRUCTION PLANS AND SPECIFICATIONS

FILE: FED

TITLE: Energy and Utility Conservation

POLICY:

Orange County Public Schools is committed to energy and utility conservation. The goal is to minimize district utility consumption and cost, while maintaining a healthy learning environment. The district will monitor and practice stewardship to conserve utilities and cost.

(1) Monitoring and reporting

District Energy Administrators will monitor and report consumption and cost by:

- (a) Setting and scheduling acceptable temperature and operating time guidelines.
- (b) Developing utility budgets by work location, and conducting billing audits
- (c) Maintaining a utility data base for all schools and work locations
- (d) Monitoring and communicating consumption and trends to schools and work location staff. Energy Administrators contribute to student, staff and public energy awareness through educational programs.
- (e) Monitoring energy controls operation. Conducting after-hours inspections to validate energy controls operation, schedule compliance and work location conservation practices.

(2) Implementing green building practices and sustainable design

- (a) The district building program designs and builds using green building practices and sustainable design when constructing new or renovating existing facilities, evaluating design features based upon life cycle cost analysis, maximizing energy efficiency and minimizing operating costs. Building features to conserve energy should include the most efficient practices in the following areas:
 - (i) Thermal insulation
 - (ii) Thermal windows and doors with appropriate reflective coatings, oriented to minimize energy consumption
 - (iii) Reflective roofing materials to minimize heat load on A/C equipment
 - (iv) Automated building controls
 - (v) High efficiency cooling and heating physical plant equipment, and the use of energy recovery systems
 - (vi) High efficiency interior and exterior lighting
 - (vii) Renewable energy systems, such as solar, biomass or wind applications where cost benefit demonstrates a favorable return

- (viii) Water conservation methods and devices, including the use of drought tolerant landscaping

The district identifies cost savings opportunities through technology and best-practices.

The school district may enter into an energy performance-based contract to significantly reduce energy or operating costs of an educational facility through investment in infrastructure using improved technology or other energy conserving measures.

Savings generated through energy conservation measures may be reinvested in facilities to generate further energy cost savings.

LAWS IMPLEMENTED:

Section 1013.23, 1013.31, 1013.44, Florida Statutes

ADOPTED: 11/17/08