

Killeen-Fort Hood Regional Airport

36%

Reduced energy consumption



Challenge

The KFHR Airport wanted to conduct detailed engineering assessment to identify opportunities for reducing energy consumption.

Solutions

CVAL conducted the implementation of efficiency strategies as indicated below. These detailed engineering assessment has identified opportunities to reduce energy use by 36% at the client's facility.

Lighting Retrofits

Comprehensive replacement of indoor and outdoor fixtures with high efficiency LEDs. Improved controls to conserve use.

Evaporative Cooling Units

Retrofit existing air-cooled chillers with evaporative cooling unit to pre-cool the air and improve heat exchange.

HVAC Optimization

Fine-tune mechanical equipment to operate at maximum efficiency with updated controls.

Enhanced Ventilation Control

Convert ventilation fans to match airflow to heating and cooling needs.

Escalator Energy Conservation

Reduce escalator speed when not in use to save motor energy.

Building Details

- **Location:** Killeen, Texas
- **Building Type:** Full-Service Airport
- **Building Height:** 3 story
- **Year Built:** 2004
- **Building Area:** 98,000 sqft
- **Energy Assessment:** March 2016
- **Efficiency Measures:** 5
- **Investment:** \$660K
- **Operational Savings, \$/yr :** \$131K (34%)
- **Rebate Potential:** \$45K
- **Simple Payback, years:** 4.7