



### **Service & Product Provider Partner**

#### ***Johnson Controls, Inc.***

3021 West Bend Drive, Irving, TX 75063

Business: Energy Services Company  
Sandie Sparks, Assurance Performance Specialist  
Phone: 972-868-3631 / Fax: 972-869-9421  
Email: Sandie.g.sparks@jci.com

### **Customer**

#### ***Midlothian Independent School District***

601 East Avenue E, Midlothian, TX 76065

Business: K-12 School District  
Steve Duffee, Energy Manager  
Phone: 972-775-1148 / Fax: 972-775-1942  
Email: Steve\_duffee@midlothian-isd.net

**Texas school district saves \$4.2 million in energy, water and operational efficiencies.**

### **Project Scope**

This 15-year performance contract with Johnson Controls (JCI) provides school facility improvements funded by the energy, water and operational savings that they create.

### **Project Summary**

Johnson Controls installed Metasys<sup>®</sup> building management system with 250 digital controllers for enhanced facility management services and replaced 134 HVAC units, 10,000 lighting fixtures, and 520 water fixtures. In addition, JCI reviewed utility bills and procedures and developed best practices for ongoing operations and provided training and continuous measurement, verification and performance assurance.

- **Energy Savings**

Electric energy savings of 22.55kBtu/ft<sup>2</sup>-yr and fossil fuel savings of 11.35kBtu/ft<sup>2</sup>-yr were achieved.

- **Investment**

Midlothian ISD entered into an Installation Contract with JCI in the amount of \$2,672,462 and a 15 year service contract amounting to \$295,282.

- **Financial Return**

Total guarantee project benefits of \$4,292,418.

- **Other Benefits**

Utility bill audits by MISD and Johnson Controls and run-time exception reporting found over \$9K in additional savings. Through the project improvements, a \$137,000 rebate from the local utility company, and the tireless efforts of the teachers and students to make their schools more energy efficient, the average energy performance rating of Midlothian Schools is 91 (on the ENERGY STAR 1-100 scale), and six were in the top 25%, earning them the prestigious ENERGY STAR label.

### **Monitoring & Verifying Energy Savings**

The Measurement and Verification (M&V) Methodology that was employed for this project is consistent with the International Performance Measurement & Verification Protocol (IPMVP), Concepts and Options for Determining Energy and Water Savings, Volume I revised March, Option B.

### **Distinguishing Value**

Johnson Controls played a leadership role in helping the school district achieve energy savings and emissions reductions. The company met with district officials throughout the process, facilitated the rebate from the local utility and continues to take responsibility for assuring the project's success – even coordinating a ceremony with local district officials and EPA representatives to present the six ENERGY STAR labels.

