

CITY OF EUDORA, KANSAS

LED Streetlights Energy Efficiency Upgrades

Project Value:

\$1,535,502

Annual Savings:

\$52,218

Additional Annual Revenue:

\$116,460

IMPROVEMENT DETAILS

- Upgraded 2,300 water meters through the City to electron meters
- Replaced more than 200 water meter pits
- Installed new composite meter lids
- Coordinated meter installation to communicate via Automatic Meter Infrastructure with City's electric meters
- Upgraded all street lights in City to LED
- Upgraded all interior and exterior building lighting to LED technology
- Installed internet-based HVAC controls in all City-owned buildings
- Obtained long-term financing at historically low interest rates
- Completed project with positive cash flow beginning in Year 1

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GOALS AND CHALLENGES

The City of Eudora sought to replace its aging electro-mechanical water meter infrastructure with modern electronic meters. The City recognized that it was losing more than \$100,000 in annual water revenue, but needed a partner to design and manage the City-wide upgrade.



Eudora turned to Willdan to lead the development and implementation efforts. In addition, the City asked Willdan to upgrade other City infrastructure to reduce operating costs and maximize savings for the City.

SOLUTIONS AND OUTCOME

Working closely with the City to identify system preferences and goals, Willdan successfully developed and implemented a project that replaced all 2,300 water meters in the City. The new system consisted of Sensus iPearl meters, complete with new composite lids. In addition, more than 250 existing pits and setters, along with dozens of failed valves, were replaced to eliminate outdated infrastructure.

Elsewhere, Willdan upgraded street lights – as well as building interior and exterior lighting – to LED technology. Internet-based HVAC controls were also added city-wide.

With Willdan as its turnkey partner, the City completed all upgrades without the need for any up-front capital and a positive cash flow from Year 1.