

CITY OF HICKMAN

Fulton County, Kentucky

MUNICIPAL GOVERNMENT

The Municipality of Hickman, Kentucky, sought better use of taxpayers' dollars through energy conservation measures such as water and gas automatic meter readers, water treatment facility upgrades and energy-efficient light-emitting diode (LED) streetlights.

CHALLENGE

- Cost – Reduce energy and maintenance costs from water and gas meter reading, water treatment facility and street-lighting through energy efficiency upgrades
- Improve Technology – Take advantage of automatic and remote-controlled meter reading technology now available
- Safety – Detect and stop leakages as quickly as possible as well as improve visual acuity and roadway safety
- Accuracy – Help taxpayers conserve gas, water and energy while lowering bills through accurate and immediate usage reports
- Fiscal Responsibility – Provide minimal impact to budget while achieving comfort and energy conservation goals so city government can focus on taxpayers' needs and public policies, save money on energy and funnel saved dollars to pay off the project



80%

reduction in maintenance costs

1st

City in Kentucky to go completely LED with street lighting

61%

Projected annual energy savings

1,170

Water meters replaced with AMR technology



"The improvements that we plan to make to our water and natural gas meters as well as the automatic meter reading will ensure that our citizens have the most accurate utility readings," said Mayor David Lattus. "These new readings will reduce time on the road, increasing the efficiency and accuracy of reading customers' bills, enhancing our ability to quickly detect and stop leaks, and providing customers with daily information on water use so that they can improve their efforts to conserve."

SOLUTION

- Replace 1,170 water meters with automatic meter reading technology
- Replace 797 residential gas meters and 12 commercial meters with automatic reading technology
- Install new supervisory control and data system with remote access for greater control and monitoring of the water treatment facility
- Installation of new high efficient service pump for cost savings and replacement of dehumidifier and facility exhaust
- Replace all 416 streetlights with new LED streetlights to help reduce energy consumption by an estimated 61%
- Reduce maintenance cost since LEDs are a solid-state technology (no moving parts) and last up to four times longer than the Municipality's existing streetlights

RESULTS

- Major energy conservation upgrades without raising taxes
- By leveraging existing spend to fund the needed upgrades, the city limited the capital investment from \$2.4M to having the project completely paid for in savings

- New technology enhanced the city's ability to detect and stop leakages reducing waste and bills
- Provide taxpayers with daily usage reports to help them self-monitor and address conservation and cost
- Hickman is the first city in Kentucky to go completely LED with streetlighting
- Projected annual energy savings of approximately 61%, or \$220,000
- Reduction in maintenance costs by 80%

"As a leader in utility infrastructure systems and energy efficiency, we're committed to assisting the city of Hickman in these energy upgrades," said Brandon Marcum, Harshaw Trane Account Executive. "We're proud to help the city become the first city in Kentucky to be completely illuminated with LED roadway lighting while delivering savings and providing additional funds to the city."