

measurable savings



West St. Paul installation expected to yield 45% in annual energy savings

GE's LED street lighting fixtures put to test in major utility initiative in Minnesota

THE SITUATION

Xcel Energy, a major U.S. electricity and natural gas company, researched LED fixtures as a source to light up roadways. It wanted to monitor performance of the technology so it could use the data to develop an LED program with each of the eight Western and Midwestern states it serves.

THE SOLUTION

As one of the largest utility-initiated implementations of LED street lights in Minnesota, GE's Evolve™ LED Scalable Cobrahead fixtures were installed in West St. Paul, chosen as a pilot location for its street light distribution, fixture types, adjacent vegetation and proximity to Xcel Energy's service center.

"These new LED systems have improved the quality of light that our residents rely on to navigate our streets at night. With the help of Xcel Energy and GE Lighting, our community is seeing the promise of a new technology that can yield significant savings. The preliminary data is promising, and other cities—large or small—should keep a keen eye on the results."

- John Zanmiller, Mayor, West St. Paul

Xcel Energy replaced more than 500 high-pressure sodium fixtures (100-, 150- and 250-watt) with GE's Evolve LED Scalable Cobrahead fixtures in West St. Paul—a move expected to reduce annual energy use by 45%.

Noting advancements in LED technology—from light distribution patterns, designs of fixtures and heat-sink efficiency—Xcel Energy officials are looking forward to results with GE Lighting's Scalable Cobrahead fixture.

Many of its municipal customers are seeking ways to reduce costs, so Xcel Energy is sharing recommendations based on its findings.

For more information, visit gelighting.com.



OPERATING IMPACT

- Estimated 45% savings in annual energy usage
- Maintenance needs decreased



ENVIRONMENTAL IMPACT

The LED upgrade helped reduce waste, mercury and lead.



imagination at work