

## Street Lighting Intelligent Management

### Project Title

*Street Lighting Intelligent Management*

### Project Location

*Road System in Minneapolis, Minnesota*

### Total Project Cost (all funding sources – all years – for all capital costs)

*\$10,000,000*

### Request for state funds in 2010

*\$2,000,000*

### Additional state funds to be requested for subsequent project costs/phases in 2012

*\$2,000,000*

### Additional state funds to be requested for subsequent project costs/phases in 2014

*\$2,000,000*

### Non-state funds available or to be contributed to the project (list the dollar amount and sources- federal, city, private or other)

Federal: \$0

City:

*City funds in 2005-2008 \$0*

*City future funding: \$4,000,000*

Other: \$0

### Project Description and rationale

*The \$2 Million being requested for 2010 would fund the first phase of the proposed project that would allow control of the City's street lighting system's consumption rates by implementing a new network technology. The annual estimated energy savings are 20%. Street lighting energy consumption currently costs the City \$4 million annually.*

*This project will allow a user, or program, control of the City's street lighting system from anywhere, delivering light intelligently based upon real-time conditions. Through a wireless network and existing power lines, the user can efficiently and effectively control the operation of all street lights maintained by the City of Minneapolis from one central location, mobile or stationary. There are significant cost savings realized in conjunction with this type of control.*

*The City of Minneapolis maintains and operates approximately 20,000 street lights. The City relies on public call-ins to identify street lights that are not operational. Scheduling maintenance crews to address these calls is challenging for maximizing maintenance crew efficiency. The Project/technology proposed would allow maintenance staff to assess and program "lights out" in a more efficient manner by identifying the outages through the network prior to a public call-in. This would allow maintenance staff to schedule the actual day in which the street light will be repaired. There will also be savings realized in crew efficiency by programming maintenance activities to a specific geographical area.*

**Regional Benefit**

*Reduction in energy usage will reduce the City of Minneapolis' carbon footprint.*

**Identify total cost for each of the following:**

*Land Acquisition: \$0*

*Pre-Design: \$0*

*Design: \$500,000*

*Construction: \$9,500,000*

**Project Schedule**

*This is a multi-year project.*

*Phase 1*

*Construction start in 2010*

*Construction Complete in 2010*

*Phase 2*

*Construction start in 2012*

*Construction Complete in 2012*

*Phase 3*

*Construction start in 2014*

*Construction Complete in 2014*

**Project Contact**

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