



# LED Demonstration Project Informational Brochure May 2011

**Mayor James R. Fouts**  
One City Square –Suite 215  
Warren, MI 48093  
(586) 574-4520  
City of Warren, MI

**UPDATE:** On November 15, 2011, City Council approved the addition of new LED street lights on Ryan Rd. from 9-10 Mile and 11-12 Mile; on Martin Rd. from Sutherland Ave to Hayes Rd.

## Project Summary

The City of Warren, in conjunction with the County of Macomb, received a \$171,895 Energy Efficiency and Conservation Block Grant Program (EECBG) grant from the State of Michigan last February to establish a Light Emitting Diode (LED) street light demonstration project to conserve energy and save municipal costs. The City of Warren will save \$28,845.24 per year as a result of replacing 245 traditional street lights with LEDs. Warren was one of 17 awarded the LED demonstration project out of 85 applicants.

Traditional light sources produce emissions which create harmful effects in the environment including global warming, acid rain and smog. Installation of LED lighting offers the opportunity to reduce carbon dioxide, sulfur dioxide and nitrogen oxide emissions.

Street lighting costs the city approximately \$250,000 per month. Energy costs are anticipated to increase at a rate of 3% per year. New technology offered in LED lighting can reduce energy consumption by over 50% while improving light effectiveness.

“Rising street lighting costs is something cities need to address,” Fouts said. “This project saves taxpayer money and saves energy, which is good for the environment. It’s a ‘win-win’ for Warren residents.

### GE Cobra Head Evolve Street Light



Project Area	(Number of lights)	* Energy Savings Kilowatt Hours
1) Ryan Road, 10-11 Mile	(83)	102,140
2) Martin Road, Van Dyke to Sutherland Ave.	(74)	76,280
3) Van Dyke, 11-12 Mile	(45)	55,377



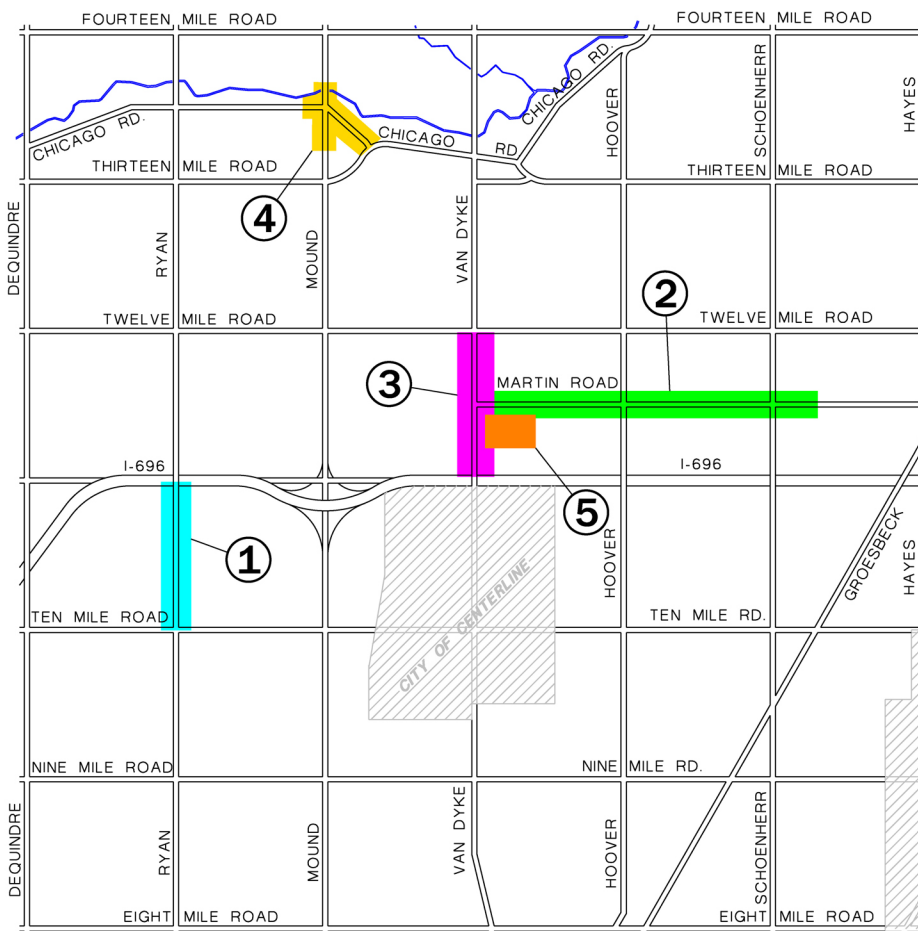
### LED Optical Solutions- Powered by LEDOS- LED Bulb- [www.ledoscorp.com](http://www.ledoscorp.com)

Project Area	(Number of lights)	* Energy Savings Kilowatt Hours
4) Chicago and Mound	(26)	9,828
5) Farnum, Evelyn, Busko	(17)	6,426



\* Energy savings statistics provided by DTE Energy

## LED Demonstration Project Areas



### Warren LED Demonstration Project Budget:

City of Warren DDA Contribution:	\$44,504.00
LED Grant (City of Warren portion)	\$147,190.00
DTE Contribution	\$54,000.00
<b>Total Project Cost</b>	<b>\$245,694.00</b>
City of Warren Investment:	\$44,504.00
- "Your Energy Savings" rebate:	\$39,460.00
<b>Total City of Warren Investment</b>	<b>\$5,044.00</b>

**Warren’s Annual Savings: \$28,845.24**

**Return on investment: Two and a half months!**

This project was funded by the City of Warren Downtown Development Authority and the American Recovery and Reinvestment Act of 2009. The Michigan Energy Office, now a part of the Michigan Strategic Fund, awarded the Energy Efficient & Conservation Block Grant funds to projects that will create and retain jobs, save energy, and reduce greenhouse gas emissions.