

Detroit Metro Region Freeway Lighting System

Operations and Maintenance



Client:	Michigan Department of Transportation
Location:	Detroit, MI
Building Type:	Municipal
Contract date:	2015
Surface Area:	145 miles

The 145-mile modernization project of the Detroit Metro Region's existing freeway lighting system helped increase highway safety conditions for the travelling public and lowered the energy consumption through implementation of 15,000 energy efficient LED lights. ENGIE was involved with this project from the first stages of development, advising the design-build team on operational efficiencies, data collection systems, and improved lighting system.

First public lighting project structured as a P3 in the United States, the Michigan Department of Transportation benefits from ENGIE's 23-years' experience in operations and maintenance of infrastructure in the North American market.

Mandate

ENGIE's scope of work includes maintenance management and coordination by means of a new call center and Web-access MMIS system to repair defective lights. ENGIE's team provides routine maintenance inspections and life-cycle optimization of the lighting system (existing and improved) of 145 highway miles including bridges and tunnels. Throughout the 15-year operational term, the team is committed to a guaranteed energy reduction of 15,000 fixtures that make up the lighting system. Specifically:

- Operations and maintenance of existing and new lighting equipment
- Maintenance Management Information System (MMIS) tracking for repair and maintenance calls
- Energy management
- 24/7 call center services
- Participation in the phases of design, construction and commissioning