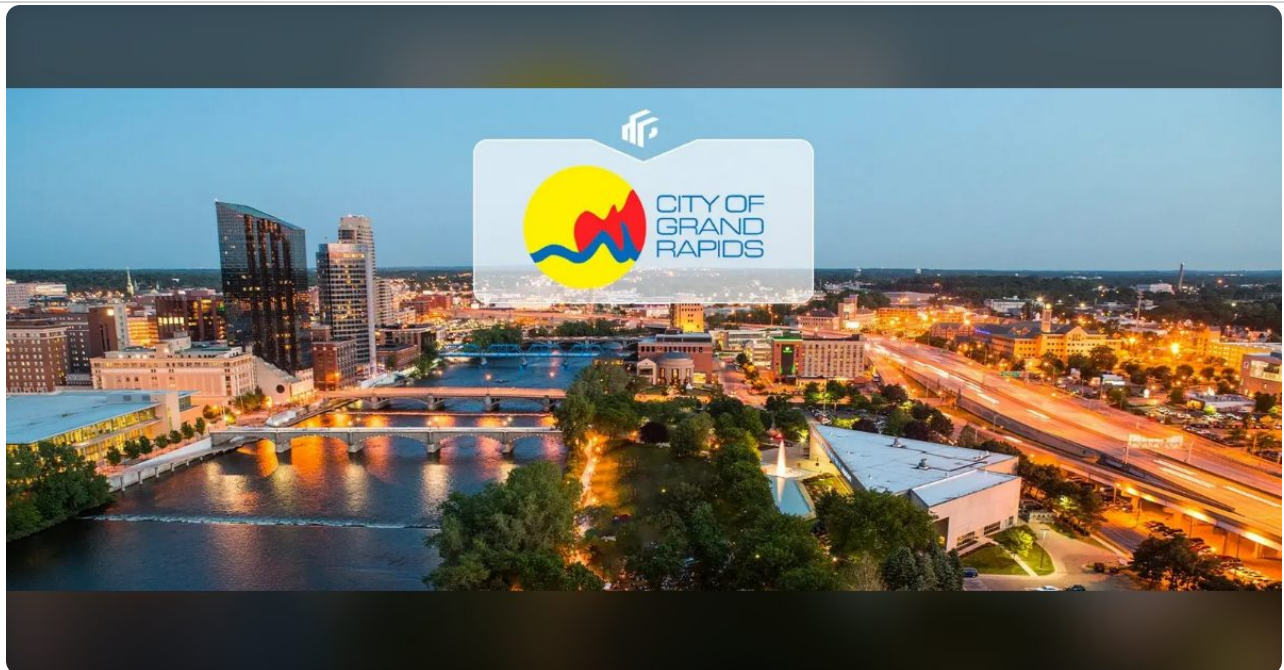


GRAND RAPIDS, MICHIGAN, UNITED STATES · 2023-2024

Grand Rapids, Michigan: 18,037 streetlights on one platform

Michigan's second-largest city added a wireless control node to every streetlight in its LED conversion, giving one office real-time control and per-fixture fault reporting across roughly 45 square miles. The rollout is complete.



PUBLISHED OUTCOMES

18,037

WIRELESS SMART CONTROL
NODES INSTALLED ON
STREETLIGHTS [↗ \(HTTPS://WWW.
RCRWIRELESS.COM/20230725/INTERNE
T-OF-THINGS-4/GRAND-RAPIDS-MICHIG
AN-APPOINTS-DIMONOFF-TO-INSTALL-S
MART-CITY-STREET-LIGHTING-NETWOR
K\)](https://www.rcrwireless.com/20230725/INTERNE-T-OF-THINGS-4/GRAND-RAPIDS-MICHIGAN-APPOINTS-DIMONOFF-TO-INSTALL-SMART-CITY-STREET-LIGHTING-NETWORK)

\$350,000

PROJECTED ANNUAL
ELECTRICITY SAVINGS ONCE
FULLY OPERATIONAL (USD) [↗ \(HTTPS://WWW.WGVUN
EWS.ORG/NEWS/2024-01-18/GRAND-RA
PIDS-ALMOST-DONE-WITH-LED-STREETL
IGHT-CHANGEOVER\)](https://www.wgvunews.org/news/2024-01-18/grand-rapids-almost-done-with-led-streetlight-changeover)

1,000

FIXTURES CONVERTED PER
MONTH DURING THE
ROLLOUT [↗ \(HTTPS://WWW.WGVUN
EWS.ORG/NEWS/2024-01-18/GRAND-RA
PIDS-ALMOST-DONE-WITH-LED-STREETL
IGHT-CHANGEOVER\)](https://www.wgvunews.org/news/2024-01-18/grand-rapids-almost-done-with-led-streetlight-changeover)

The situation

Grand Rapids is Michigan's second-largest city: roughly 188,000 residents across about 45 square miles. Its streetlights were being converted to LED, which fixes the energy bill but not the blind spot behind it. A converted fixture still has no way to say it has failed. The city learns about a dark pole when a resident calls it in, or when a crew happens to drive past it after dark — and it learns nothing at all about the fixtures nobody happens to look at.

Converting without adding control also spends the truck roll twice. A crew is already at every pole, with the fixture open. That is the cheapest moment in the asset's life to add anything to it, and it does not come around again for fifteen years.

What was deployed

Every streetlight in the conversion received a wireless smart control node: **18,037 of them**, forming a connected network reporting into the Dimonoff | SCMS urban asset management platform.

The platform is where the network is now operated from. City staff configure, monitor and meter each fixture from one place, set output remotely instead of dispatching to change it, and receive alarms and notifications when a fixture fails rather than waiting for a report. That last part is what changes the maintenance economics: crews are routed to poles the system has already identified, instead of driving a route to find out.

The contractor ran at about 1,000 fixtures a month, weather permitting, and the city projected **\$350,000 a year** in electricity savings once the network was fully operational. The rollout is finished: all 18,037 nodes are installed, and Grand Rapids runs the network from the platform today.

Why it matters for your network

Grand Rapids is the case for adding control *during* the LED conversion rather than after it. The node goes on while the crew is already at the pole and the fixture is already open — one truck roll doing two jobs.

The alternative is what most cities discover a few years later: a fully converted LED network that still cannot report an outage, and a second capital project to retrofit control onto fixtures nobody wants to touch again. If your LED conversion is funded and not yet built, this is the deployment to look at, because the window for doing it this way closes when the last fixture is closed up.

We are thrilled to be part of this landmark project in Grand Rapids, Michigan. The implementation of our smart street lighting solution represents a significant step towards building a more intelligent and eco-friendly urban landscape.

Bernard Têtu, Founding President, Dimonoff [↗ \(https://www.rcrwireless.com/20230725/internet-of-things-4/grand-rapids-michigan-appoints-dimonoff-to-install-smart-city-street-lighting-network\)](https://www.rcrwireless.com/20230725/internet-of-things-4/grand-rapids-michigan-appoints-dimonoff-to-install-smart-city-street-lighting-network)

DEPLOYMENT

Platform	Dimonoff SCMS
Coverage	Citywide, roughly 45 square miles
Control	Remote configuration, monitoring and metering, per fixture
Maintenance	Alarms and notifications on fixture failure, for routed crews

SOURCES

- [RCR Wireless - Grand Rapids, Michigan, appoints Dimonoff to install smart-city street-lighting network](https://www.rcrwireless.com/20230725/internet-of-things-4/grand-rapids-michigan-appoints-dimonoff-to-install-smart-city-street-lighting-network) (https://www.rcrwireless.com/20230725/internet-of-things-4/grand-rapids-michigan-appoints-dimonoff-to-install-smart-city-street-lighting-network)
- [WGVU - Grand Rapids almost done with LED streetlight changeover \(January 2024\)](https://www.wgvunews.org/news/2024-01-18/grand-rapids-almost-done-with-led-streetlight-changeover) (https://www.wgvunews.org/news/2024-01-18/grand-rapids-almost-done-with-led-streetlight-changeover)
- [WOOD TV8 - Grand Rapids to install new smart streetlights](https://www.woodtv.com/news/grand-rapids/grand-rapids-to-install-new-smart-streetlights/) (https://www.woodtv.com/news/grand-rapids/grand-rapids-to-install-new-smart-streetlights/)
- [Dimonoff - Grand Rapids, Michigan to Launch New Smart Street Lighting Project with Dimonoff](https://www.dimonoff.com/news/grand-rapids-michigan-project/) (https://www.dimonoff.com/news/grand-rapids-michigan-project/)