

CASE STUDY: TMO HIGHWAYS

TMO HIGHWAYS GO GREEN WITH LZA550 SOLAR, DRIVING BIG ENVIRONMENTAL AND COST SAVINGS



WHERE:
SUFFOLK

WHEN:
2023

WHO:
TMO HIGHWAYS

"The savings in fuel, wages, and battery changes have been welcomed by both our team and our client. The Nissen LZA550 Solar lights are a genuine game changer for the traffic management industry. As an environmentally responsible company, we'll be looking to use them at every opportunity – ensuring our future purchasing decisions focus on innovative, sustainable solutions or, at minimum, products with clear recycling options at the end of their lifecycle."

Ben Green, Operations Director of TMO Highways

THE CHALLENGE

TMO Traffic Highways Ltd are fully committed to reducing their environmental impact. As an ISO:14001 accredited business, they recognised that weekly battery changes and the vehicle mileage involved were a major contributor to CO2 emissions, fuel costs, and wasted resources across the Traffic Management industry.

When awarded a year-long contract with BAM Nuttall in Suffolk, Operations Director Ben Green (TechIOSH, AIEMA, NCRQCert) saw an opportunity to trial a new solution that could significantly cut emissions while improving efficiency.

THE SOLUTION

TMO worked closely with BAM Nuttall to gain approval for the trial of the Nissen LZA550 Solar Lights. Over a 12-week period, the lights were monitored using the Trackit247 Ltd tracker service provided by ITS, which tracked battery levels and performance remotely.

The results were impressive:

- No battery changes required
- No low-voltage warnings
- Consistently strong voltage levels (12.7–13v)
- Zero breakdowns or communication failures

By eliminating weekly battery swaps and the associated travel, the technology delivered both operational savings and a measurable environmental benefit.

THE RESULTS

In the first 12 weeks:

- 611kg of CO2 saved
- £48 electricity saved
- 912 vehicle miles avoided

Predicted over one year:

- 2,648kg of CO2 saved
- £208 electricity saved
- 3,952 vehicle miles avoided

And this was achieved with just a single 2-way set of Nissen LZA550 Solar Lights.

Ben Green, Operations Director of TMO Highways noted:

"The savings in fuel, labour, and battery costs have been a real win for both our business and our client. The Nissen LZA550 Solar lights are a game changer for the traffic management industry, delivering results while supporting our sustainability commitments. As a responsible company, we'll be adopting this technology at every opportunity – ensuring future investments focus on innovation, efficiency, and environmental benefit."

Want to see the difference for yourself? Contact the team today at hireandsales@its.uk.com to arrange a demonstration.