

What's happening?

Best Practice on TLP KO2

NXG Stores Decrease Transport Emissions

Overview:

In the past, TLP Siemens Rail Automation (SRA) staff would order commonly used project items such as screws, bolts, etc. on an as-needs basis. This entailed two or three deliveries per week from the supplier Unipart's headquarters in Watford to the New Cross Gate (NXG) facility.

This system was replaced by a permanent Stores area at NXG, operated by an SRA Site Storeman. Approximately 200 common items are stored on-site with SRA site personnel requesting these directly as required. The SRA Storeman issues and records usage and at month end submits a used items report to TLP project buyers, who in turn invoice the supplier. Materials are restocked once per month.

This has reduced small items materials deliveries from two or three per week (sometimes more) to one per month.

Calculations and Assumptions:

Calculating exact emission savings from this initiative is difficult as sometimes small items deliveries would be couriered to site, or included in the regular large parts delivery which takes place twice a week on Tuesdays and Thursdays, or be delivered by van or truck. For calculation estimation purposes it has been assumed that each such delivery used an average-sized EU-model car running on petrol. In this case, driving from Watford to NXG (296 km) return journey would result in 140 kg CO₂-e per delivery (taken from carbon calculator at www.carbonfootprint.com/calculator.aspx).

If a conservative assumption is made that NXG Stores replaced two small parts deliveries per week, eight such journeys are now avoided per month.

Benefits:

- A saving of 1,120 kg of CO₂-e per month, or **13,440 kg of CO₂-e** per year

Meeting our Objectives & Targets:

- This initiative is aligned with TLP Sustainability Strategy *Objective 15* 'to minimise the levels of carbon generated over the whole life of TLP' and associated *TLP Delivering Carbon Emissions Reduction Policy*.



Figures 1 & 2 SRA's NXG Stores