



Case Study
 Nottingham Council's
 Electric Bus Project
 January 2015

Charging ahead with Nottingham Council's electric bus project

Electrical installers EIC approached MWA Technology to supply electricity panel meters for EON's Nottingham Council Electric Bus Project.

The problem MWA found when we arrived on site was that the current, manual system was suffering from transcription errors and consuming extensive management time when cleansing data, thus costing excessive money. Meters were required to gather data on the consumption of electricity at the Charging Bollards at two bus terminals; Sherwood and Queen's Drive. EON later decided they also needed to identify what bus was at which charger, for what duration, the energy consumed and track mileage.

The first solution suggested was a Multi-Cube Meter System, designed for multiple meter applications. The system provides the following benefits include:

- A high density system – simplified wiring and many advanced features.
- Modular design – future expansion, greater flexibility and massive space saving benefits.
- Auto-rotation feature – allows the meter to correct any incorrectly installed transformers.

“It's possible to save up to 50% per metered point and enjoy up to 80% reductions in cabling, connection and space; all of which were essential to this project.”

The secondary solution offered were Active Transponders (In collaboration with trusted contacts and specialist IT solution designers, manufacturers and integrators EGS)

- Identify the vehicle and the charging point location.
- Determine the amount of charge the vehicle has consumed.
- Provide bus operators with notice of a fault with the bus when charging.
- Connect wirelessly to a data logger to maintain the database and charge information of each vehicle.

The successful collaboration, between MWA Technology and EGS Technologies, ensured that each of the client's requirements were successfully addressed. Thanks to the increased level of easy and accurate monitoring, this solution gives back control and saves the client both time and money.