

# Transport UK London bus electrifies its first London bus route



## Customer Story

With an end-to-end solution from Siemens and smart financing from Siemens Financial Services, London bus company Transport UK London Bus introduced a fleet of electric double-decker buses to one of their busiest routes in London, route 63. Designed to support the 29-strong EV fleet, the operator developed its Walworth depot in London to incorporate fully electric routes with power infrastructure, maintenance and charging facilities.

The company partnered with Siemens and Siemens Financial Services to acquire the total solution, from initial consultancy, through to depot redesign and retrofit, charging infrastructure implementation and optimisation, software management systems, and ongoing maintenance and optimisation.

**TUK is committed to support TFL's objective to completely decarbonize all of the bus network by 2030, saving 4.8m tons of CO<sub>2</sub>**



**End-to-end charging solution from a single expert provider including a bespoke service agreement and performance guarantees to enable seamless operation**

TUK needed to find a charging solution for its limited footprint Walworth depot that could provide enough power to keep buses running during the day, with limited time to 'top up' and then provide significant charging power to charge overnight. The maximum charging time available for the buses on this busy route is c.7hrs.

The Siemens solution was an end-end depot electrification. This comprised:

- Consultancy and depot simulation to identify opportunities to install charging solutions in the depot, whilst minimising space used.
- Installation of 34 150kW Industrial Rapid Chargers to enable sufficient charging levels were achieved over the short periods of time that buses returned to depot.
- A SIVACON S8 LV board, LV busbar and harmonic filtering to ensure the relative power needs of the depot and charging stations are met.
- A bespoke 14-year service level agreement and warranty to ensure both current and future needs at the site are met, and any charging issues are resolved quickly.

The depot management software Depotfinity supported the installation of the Industrial Rapid Chargers, which automatically optimises charging sessions within a limited headroom, reducing energy usage, maintenance costs and power levels



In order to make this solution financially manageable for TUK, Siemens Financial Services constructed a tailored, 'smart' financing package – embracing consultancy, technology, software, grid connection and ongoing maintenance. Structured across 14 years in line with the company's contract with Transport for London, the financing arrangement eliminates the need for capital to be tied up in the solution – an important liquidity advantage for TUK. The financing solution was also flexed to be sensitive to TUK cash-flow requirements, with a low-start profile ramping up over time, aligning payments with benefits for the bus operator.



With the strength of financial support through Siemens Financial Services, Transport UK London Bus was able to build its electric fleet, including depot, charging infrastructure and grid connection, while minimising capital expenditure.”

Alastair Willis, Commercial Director, Transport UK London Bus

## Talk to the team



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