## **SIEMENS**

## Press

Erlangen (Germany), November 26, 2020

## Siemens powers zero-emission double decker buses in London

- Charging technology for 37 new electric buses installed at West London depot
- Fully electric-enabled bus garage incorporates power infrastructure, maintenance and charging facilities
- Supplying 11 megawatt hours to 37 double-decker buses daily

In partnership with Tower Transit, a bus operator in London and part of the SeaLink Travel Group, Siemens Smart Infrastructure provided the charging infrastructure for 37 new fully-electric double decker buses in London. Westbourne Park garage, on the Great Western Road, is the operator's first depot in London incorporating fully electric routes with power infrastructure, maintenance and charging facilities. Bus routes 23 and C3 operate from the Westbourne Park site, with the first few Optare Metrodecker zero-emission double-deckers already in operation, the remaining fleet is expected to be in service in the next months.

"Helping Tower Transit deliver its first depot for fully-electric routes, with these iconic double decker buses, is an important milestone for both the operator and London, as progress continues to be made with improving the air quality and lives of people in the capital. The work at Westbourne Park reinforces Siemens' growing reputation as one of the world's leading providers of electrical infrastructure and transport solutions, which are paving the way towards the electrification of the transport sector," said Matthias Rebellius, managing board member of Siemens AG and CEO of Smart Infrastructure.

The volume of traffic in London makes it one of the most polluted places in the UK. The conversion of the Westbourne Park depot is part of the capital's plans to deliver

Siemens AG Communications Head: Clarissa Haller Werner-von-Siemens-Straße 1 80333 Munich Germany

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greener and cleaner transport for all Londoners. The Metrodecker electric vehicles (EVs) deployed by Tower Transit will save more than 1,800 tons in greenhouse gas emissions well-to-wheel in each year of operation versus a Euro VI bus.

At the refitted Westbourne Park garage, Siemens provided 34 AC and four DC Sicharge units (AC22 & UC200) supplying a total charging power of 2 megawatts. The Siemens infrastructure is sited on the 180-metre elevated bus deck extension that was built over railway lines as part of the Crossrail project in 2017. Buses are recharged primarily overnight or during operational breaks via the AC22s. The high-power UC200 DC charging-units provide fast charging; transferring power three times faster, compared to AC charging technology, so vehicles can be charged during shorter periods of parking time.

As well as commissioning the installation, Siemens is providing a comprehensive preventative maintenance program and ongoing 24/7 service level support for the infrastructure. When electrifying depots there are a number of challenges to overcome: integrating with existing infrastructure, solving any grid or power demands and aligning the route and vehicle characteristics to support the most optimum vehicle and infrastructure solution.

Samuel Ribeiro, Chief of Staff at Tower Transit, said: "As part of a global transport group, we are committed to delivering safe, sustainable and innovative transport solutions, which includes electric buses in Australia, and the recent establishment of the world's first hydrogen bus consortium. We are pleased to have been working together with Siemens to deliver this milestone project for Tower Transit and SeaLink Travel Group, aligning with industry best partners to showcase our innovative, result-driven capabilities with the introduction of 37 zero-emission buses to our fleet and supporting TfL to continue to improve the air quality in London."

Claire Mann, TfL's Director of Bus Operations, said: "As part of our aim, to tackle London's air-quality crisis, we are continuing to grow our electric bus fleet, which is already one of the largest in Europe. To support this growth, we need the right infrastructure in place. This new charging facility at Westbourne Park is another step in the right direction. Not only do electric buses reduce emissions but they also provide customers with smoother, quieter journeys and the new double deck Optare

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buses on routes 23 and C3 will come with the latest safety features and include USB chargers at seats."

The Optare Metrodecker electric bus is the world's first zero-emission double decker. It is designed and built at Optare's facility in Sherburn near Leeds.

London's electric bus fleet of more than 380 electric buses is one of the largest in Europe.

This press release as well as press photos can be found at <a href="https://sie.ag/3lon1ev">https://sie.ag/3lon1ev</a>

For more information about Siemens Smart Infrastructure, see www.siemens.com/smart-infrastructure

For more information about charging systems for ebuses, see <a href="https://www.siemens.com/ebus">www.siemens.com/ebus</a>

## **Contact for journalists**

Anna Korb

Phone: +49 9131 173 663 7; E-mail: anna.korb@siemens.com

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Siemens Smart Infrastructure (SI) is shaping the market for intelligent, adaptive infrastructure for today and the future. It addresses the pressing challenges of urbanization and climate change by connecting energy systems, buildings and industries. SI provides customers with a comprehensive end-to-end portfolio from a single source — with products, systems, solutions and services from the point of power generation all the way to consumption. With an increasingly digitalized ecosystem, it helps customers thrive and communities progress while contributing toward protecting the planet. SI creates environments that care. Siemens Smart Infrastructure has its global headquarters in Zug, Switzerland, and has around 72,000 employees worldwide.

Siemens AG (Berlin and Munich) is a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for more than 170 years. Active around the world, the company focuses on intelligent infrastructure for buildings and distributed energy systems and on automation and digitalization in the process and manufacturing industries. Siemens brings together the digital and physical worlds to benefit customers and society. Through Mobility, a leading supplier of intelligent mobility solutions for rail and road transport, Siemens is helping to shape the world market for passenger and freight services. Via its majority stake in the publicly listed company Siemens Healthineers, Siemens is also a world-leading supplier of medical technology

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and digital health services. In addition, Siemens holds a minority stake in Siemens Energy, a global leader in the transmission and generation of electrical power that has been listed on the stock exchange since September 28, 2020.

In fiscal 2020, which ended on September 30, 2020, the Siemens Group generated revenue of €57.1 billion and net income of €4.2 billion. As of September 30, 2020, the company had around 293,000 employees worldwide. Further information is available on the Internet at <a href="www.siemens.com">www.siemens.com</a>.

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