



Powering Intelligent Solutions

Press Release

15 Feb 2018

Turbo Power Systems Ltd (TPS) wins Contract with Bombardier Transportation (BT) to Supply Innovative Power Conversion System for London Underground (LU)

15 Feb 2018 – Newcastle Upon Tyne, UK
Press Release

- Bombardier Transportation (BT), Sweden has placed a multi-million pound order with TPS to provide Auxiliary Power Supply (APS) equipment for 680 cars of London Underground's Central Line.
- TPS's scope is to design and supply a cutting edge, innovative, efficient and compact APS system that will enable BT to deliver a high-quality traction system for LU.
- The technology embedded in these APS units will significantly improve energy efficiency of the trains and reduce the total cost of ownership for LU.



A pioneer in Rail Power Electronics, TPS have been awarded a multimillion pound contract by BT to design and supply a new APS system for Central Line's fleet. The scope of work is to design, manufacture and supply APS equipment for 680 cars and this contract will run until 2024.

Housed in a compact, under-floor mounted enclosure, all APS components are naturally cooled and require minimum maintenance. The equipment is designed for increased availability and can withstand severe rail environment, such as extreme temperatures, space constraints and high vibration. TPS' auxiliary power units

are built with an intelligent monitoring system that records events and conditions sent by the control system. These units also come with portable test equipment software which enables the train maintainer to easily diagnose the system from their laptop.

The APS units also incorporate an innovative DC-DC Power Module using cutting edge Silicon Carbide (SiC) technology which can sustain much higher voltages and can be switched at a much higher frequency, hence equipment can be made smaller with improved reliability.

Carlos Neves, Chief Executive Officer, commented:

"I am extremely pleased that after 2 years of a true collaboration effort between TPS and Bombardier we won this significant project with London Underground. This contract proves that our sustainable investment on R&D in innovative technologies was adequate and allows us to fully demonstrate our capabilities. The long-term goal for TPS is to exceed expectations developing innovative and sustainable solutions that, in this case, will help BT and LU to reduce carbon footprint and minimise the energy used by the Tube network.

About Turbo Power Systems (TPS):

TPS is a world class niche and specialist supplier of innovative power and energy conversion solutions for Transportation, Energy, Industrial and Defence markets. TPS offer design, development, qualification and manufacturing of high speed permanent magnet machines and power electronics, from kW to multi MW and from 3,600 rpm to 160,000 rpm. TPS also offer complete turnkey support - design, manufacturing to installation and through life support of products.

Within the rail sector, TPS offers solutions for both new build and refurbishment projects and cater to various rolling stock platforms including Locomotive, Monorail, Light Rail, Intercity/Urban, Highspeed and Metro.

TPS is a global company with successful project execution in countries like UK, USA, Canada, Netherlands, Turkey, Brazil, China, Middle East and Malaysia.

For further information, please contact:

Turbo Power Systems, www.turbopowersystems.com

Ioana Briciu, Marketing Team - ibriciu@turbopowersystems.com | +44 (0) 191 482 9278

Main office number -Tel: + 44 (0) 191 482 9200