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**Turbo Power Systems**  
(“TPS” or the “Company”)

**TPS’ revolutionary 3 in 1 technology - powering electro-diesel trains!**

**A highly flexible and scalable power conversion solution**

Another important win for TPS this year! We have been awarded a new contract by Brush Traction (A Wabtec company) to deliver Auxiliary Power Supply Units (APS) for the newly refurbished GWR fleet of Class 769 Flex trains owned by Porterbrook. These trains will run on both electrified & non-electrified routes, operating on Heathrow Express services and between Reading - Gatwick.

The solution provided by TPS is designed to meet the requirements for tri-mode operation, this way allowing the train to use power from three different sources:

- Diesel-alternator set
- Third rail
- Overhead line equipment

This innovative technology is primarily designed to provide power for existing equipment and also for the new Air-Conditioning (HVAC) units. Our solution can lead to significant savings and, potentially, a Lower Carbon Footprint for the operator.

Focused on providing high levels of efficiency, the Auxiliary Power Supply Units (APS) designed by TPS will be configured for a motor alternator replacement application, using power from either one of the three sources. These APS units will then filter any fluctuations in the power sources and will provide a clean electricity supply to the equipment on the train.

Our APS unit within these trains presents a series of advantages, some of which include: a higher flexibility in operation, increased reliability and a robust design which can endure severe rail environment and space constraints. Our APS units are manufactured using a technology that allows the magnetic components to be significantly reduced in size and weight, this way allowing our auxiliary power units to be mounted in a single underfloor enclosure.

Other key benefits associated with these systems include high conversion efficiency at which they operate, and this greatly reduces the equipment’s power losses, leading to a greener power conversion solution. These APS units also include an intelligent monitoring system which records events and conditions reported by the system.

In recent years many changes and challenges have been shaping the rail industry, some of which relate to urban growth, digitalisation, the need for high-speed transport and the different energy sources designed to power trains. Here at TPS our highly experienced team are constantly innovating and gracefully embracing these challenges by designing and incorporating cutting-edge

technologies into our products. TPS has a pedigree of successfully developing APS units for rolling stock platforms for more than 30 years.

Building on the success of our fruitful relationship with Wabtec, this new project represents an important milestone in our ongoing collaboration and shows that our expertise in delivering highly reliable and efficient power conversion systems is key to developing best-in-class solutions for the rail industry.

Carlos Neves, Chief Executive Officer, commented:

*"I am extremely pleased that after many years of successfully collaborating with Wabtec on several projects, we have now won this promising new contract with Brush Traction. We are confident that this contract is only the beginning of a rewarding partnership. We aim to fully demonstrate our capabilities by delivering an innovative and sustainable solution which will help Brush Traction to reduce carbon footprint and save costs."*

For further information, please contact:

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Turbo Power Systems (TPS) is an innovative and progressive company that specialises in the design and manufacture of integrated power electronics and high-speed electrical machines solutions for Transportation, Energy, Industrial and Defence sectors. TPS have the experience and capability to manufacture bespoke energy-efficient solutions to meet extremely challenging requirements, whilst offering high quality designs for varied customers across the globe.

[www.turbopowersystems.com](http://www.turbopowersystems.com)



## TURBO POWER SYSTEMS

*Powering Intelligent Solutions*

Brush Traction (A Wabtec company) is a respected manufacturer and maintainer of freight and passenger rail vehicle services, equipment and components to rolling stock owners, operators and maintainers. Brush Traction forms a part of the Wabtec Group and is based in Loughborough, Leicestershire, situated alongside the Midland Main railway line. They provide their customers with a one-stop solution, offering a wide range of rail vehicle services and products.

[www.wabtec.com](http://www.wabtec.com)