

TfL awards RES Power Solver Upgrade to ENOTRAC

Transport for London Ltd (TfL) is planning to upgrade the power solver component of its railway engineering simulator (RES) to include greater functionality while ensuring compatibility with the existing system. The new software will allow modelling of complex non-linear power devices such as rectifier-inverters, inverters, wayside & trainborne energy storage devices, wayside resistors, permanent magnet motors, etc.

Following a stringent bidding process, ENOTRAC has been selected to develop the technical requirement specification and the software architecture specification, code the new power solver and provide assistance on integrated testing. ENOTRAC's engineers will draw on their experience of FABEL, ENOTRAC's railway simulation software, to deliver a solution that meets all of TfL's requirements. Particular emphasis will be placed on software performance, with multi-threading and parallel computing heavily featuring in the software solution to be developed.

RES is a comprehensive railway simulation software platform owned and maintained by London Underground Ltd (LUL), which is part of TfL. RES' user base consists primarily of members of the Performance Engineering Team within LUL, as well as performance engineers from LUL or its suppliers working on major upgrade programmes. All are key stakeholders in this project.

TfL is the integrated body responsible for London's transport system. Its role is to implement the Mayor's Transport Strategy for London and manage the transport services across the capital for which the Mayor has responsibility. TfL also manages a 580km network of main roads, all of London's 6,000 traffic signals and regulates taxis and the private hire trade. Everyday, TfL oversees up to four million journeys on the Tube on a weekday.

ENOTRAC is a world-leading specialist engineering consultancy with expertise in rolling stock, system assurance, electrification/energy engineering and asset management. Our team of specialist engineers have successfully delivered over 600 technical assignments in over 20 countries across 4 continents.