

Key research themes:

Control and signalling; energy efficiency; freight transport and circular economy.

SHORT LIST

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Category: Rail

Country: Spain

Professor Juan de Dios Sanz Bobi has been researching railway technology since 1992. He has contributed to different activities and projects supported by the EU. The EU funded project E-LOBSTER (Electric LOsses Balancing through integrated SStorage and power Electronics towards increased synergy between Railways and electricity distribution networks, 2018-22) explores the potential of electrified transport networks such as light railways to enhance distribution grid stability by providing ancillary services and inter-exchanging electricity. UPM and the Spanish Railway Foundation work together to identify the standardization gaps and marketability actions. The proposed solution encompasses the integration of high-power flow Electric Storage with smart Soft Open Points providing flexible control. The hardware and software control platform will be demonstrated at TRL 6 in one substation owned by Metro de Madrid. He has contributed to Shift2Rail as member of the Scientific Committee.