

Port moresby flywheel energy storage

National Highways, which oversees and improves motorways and A-roads in England, plans to trial a kinetic energy storage system to meet the rising demand for fast charging. The government company aims to ensure the charging infrastructure keeps pace with the nation's accelerating shift to electric vehicles.

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Before 2010, research on flywheels had been mainly carried out in the United States, Europe, and Japan. In recent years, the Chinese have joined the group and become a major player. In China, in addition to the research on FES supported by the Ministry of Science and Technology, major industrial groups have been developing FES prototypes for different applications. Flywheel energy storage technology in China has reached the stage of small-scale industrialization in demonstration with the support of industrial capital.

There are three trends in the future research and development of FES. Firstly, it is necessary to accumulate fatigue characteristic data for flywheel materials, identify flywheel fatigue life assessment methods, and

develop the technology to detect the strength state of flywheels. The second challenge is the heat dissipation of the MW FES motor rotor under vacuum and magnetic levitation conditions. Thirdly, it is advisable to expand the FES application modes, build more flywheel array demonstration projects, test the short-term and high-frequency advantages of flywheel energy storage, and achieve the goals of usability, durability, and cost-effectiveness.

Prof. Dr. Xingjian DaiProf. Dr. Changsheng ZhuGuest Editors

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