

Leading Edge Trend of Battery-driven Railway Electric Vehicles

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Development of the battery mounted type railway vehicle is progressing markedly. This paper overviews a variety of vehicle development cases that have been ongoing at home and abroad to date, and describes the current state of battery and peripheral technology, as well as the direction of future technology development. First, the development examples of the current-collection and storage hybrid vehicles in a new era driven by the storage device which has advanced rapidly since the early 21st century will be presented. In addition, the new trend of battery technology itself indispensable to such vehicle, and the battery peripheral technology that is the fundamental point in the vehicle design will be outlined.