

Battery Power System (BPS)

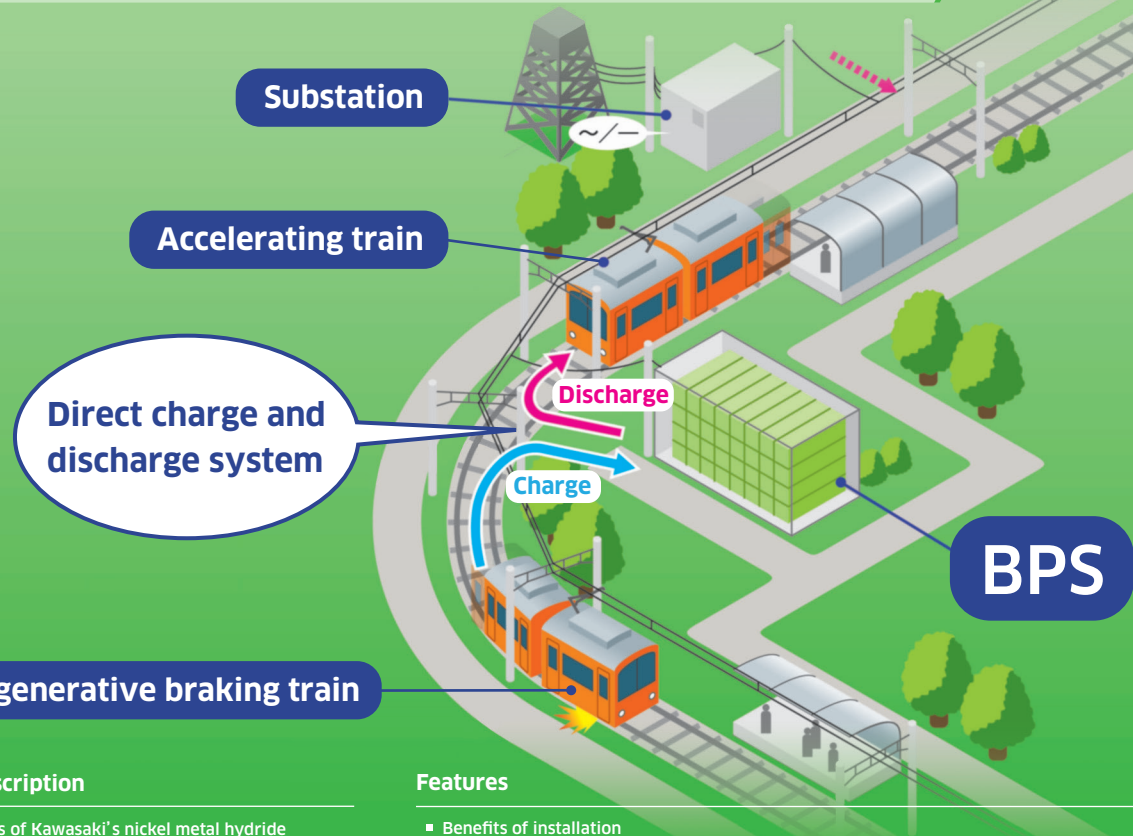
Introducing a cutting-edge high-performance battery with energy-saving potential and no electrical noise emissions

Kawasaki's wayside battery power system (BPS) utilizing GIGACELL® contributes to CO₂ emissions reduction. The fact that the BPS does not generate electrical noise emissions, it can be used for application in railway operations as an environment-friendly solution.



2023
Kawasaki
Ecological Frontiers
S class

Initial registration: 2014



Product Description

The BPS consists of Kawasaki's nickel metal hydride GIGACELL®, which connects directly to the main DC power line (i.e., an overhead catenary line or third rail) without any inverters or converters, and as a result, it has the advantage of high response time during power load fluctuations in the railway system, as well as ensuring safety during operation.

Features

- Benefits of installation
Energy savings, peak demand reduction, regenerative energy use, line voltage drop prevention, substitution for substations, and provides emergency power to move trains when main power fails
- System features
Direct connection to the main power line without inverters or converters, facilitating good cost performance, high energy conversion efficiency, high charging and discharging efficiency, and no noise