

ContainerPower Energy Solutions

Configuration of West Asia Super Electric Rail



Overview

How to meet the power supply requirements of future electrified railways?

To satisfy the power supply requirements of future electrified railways under various extreme conditions, one is actively promoting existing TPSs to constantly develop in the trends of electronic-type, continuous-type, improving the power supply reliability and resilience.

What is West Rail?

West Rail was conceived as a result of the 1994 Hong Kong Government Railway Development Strategy. The report found that a new railway was required to meet the transport demands of Hong Kong's rapidly developing western corridor portion of the New Territories. This railway was envisaged to provide:

Will Hong Kong expand its railway network to North West New Territories?

By the end of 2003, the project will become a reality, and Hong Kong will have expanded its railway network into the North West New Territories with a safe, efficient and environmentally responsible mode of transport between the NWNT and urban Kowloon.

How many electrified railways will China have in 2035?

With economic growth, the scale of electrified railways around the world is expanding. Especially in China, it is estimated that by 2035, the Chinese national railway network will reach approximately 200,000 km, of which the proportion of electrified railways will reach 90% .

Does Hong Kong need a high-capacity rail system?

Hong Kong's rapidly growing population, especially in the North West New Territories, requires a new, high-capacity rail system to cater for the estimated level of public transport demand.

How can a railway energy system be self-consistent?

In addition, TSSs, renewable energy generation stations, energy storage stations and railway power distribution systems can effectively form a railway integrated energy system [60, 61, 62, 63, 64]. Thus, self-consistent railway energy management is realized, and a resilient TPS is erected.

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