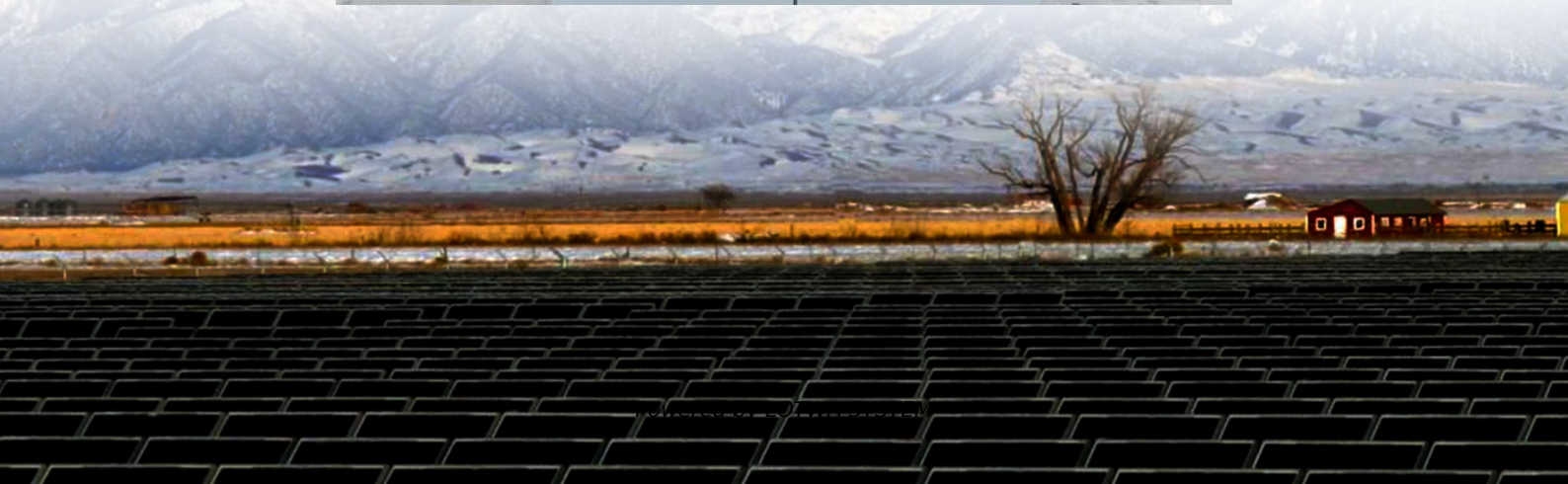
ŁOTWA SYSTEM

Long-distance transmission project energy storage vehicle equipment manufacturer



Overview

What is a long-distance transmission scenario?

Long-distance transmission scenarios often employ high-voltage or ultra-high voltage methods to minimize energy losses . Hydrogen can be transported through diverse means, including trailers, ship and pipelines. As transportation distance increases, the cost of trailers transportation rises significantly.

What is the main challenge to long-distance superconducting transmission?

The cooling system poses the primary challenge to long-distance superconducting transmission. The limited cooling system capacity necessitates multiple cooling stations to collaborate with one another in order to accommodate long superconducting cables .

Is Superlink a challenge to long-distance superconducting transmission?

The SuperLink project conducted by NKT in Munich, which possesses a capacity of 110 kV/500 MW and spans 12 km, is currently in progress but has not yet reached commercial operation . The cooling system poses the primary challenge to long-distance superconducting transmission.

What cooling systems are used in superconducting transmission systems?

Engineering cooling systems currently in use include liquid nitrogen evaporative cooling and Brayton refrigeration. Refrigerators used in superconducting transmission systems can be classified into two categories based on the different heat transfer mechanisms within the working fluid: recuperative cycles and regenerative cycles , .

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