

SMART POWER TRANSMISSION THROUGH SUPERCONDUCTING TECHNOLOGY

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Abstract:

A Superconducting Integrated Power System (SIPS) based on high temperature superconductor (HTS) technology a vision that requires a commitment over several decades to achieve the full benefits of the technology. Large applications in building smart cities and naval architecture. Components that are evaluated in this document include HTS DC power cables, cryogenic coolers, thermal insulation, energy storage, superconducting power protection approaches, cryogenic power electronics, and cryocooling systems.

Keywords:

Superconducting Integrated Power System , high temperature superconductor ,DC power cables .