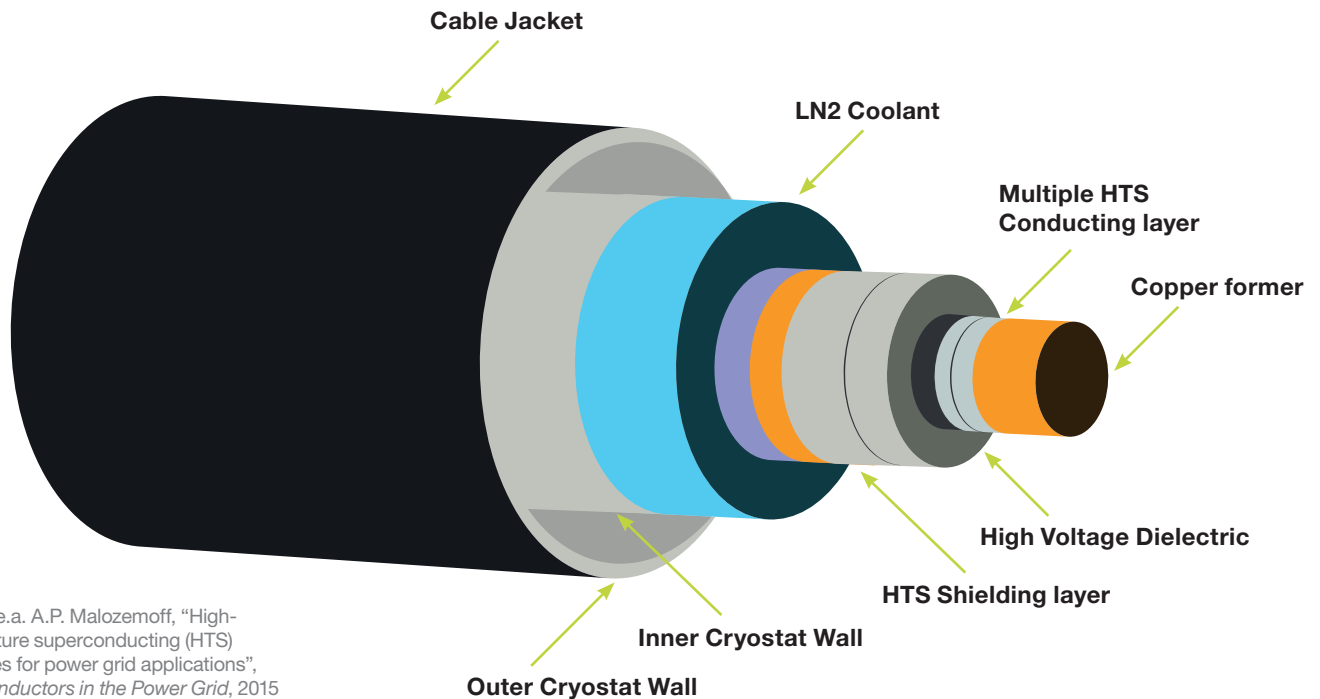


WESTERN POWER DISTRIBUTION SUPERCONDUCTING CABLES – NETWORK FEASIBILITY STUDY



Source: e.a. A.P. Malozemoff, "High-temperature superconducting (HTS) AC cables for power grid applications", *Superconductors in the Power Grid*, 2015

Project Description

This project aims to investigate the feasibility of the use of superconducting cables on WPD's network to release additional capacity in areas where new substations cannot be built or suitable adaptations cannot be made.

The projects consists of the following three work packages:

- Overview of Superconducting Cable Technologies and Cost Benefit Analysis.
- A case study of installing a demonstration cable in WPD's network.
- Learning overview and recommendations.

Areas of Work

Areas that require additional capacity but do not allow the implementation of traditional solutions due to land availability, cost or other constraints will have the biggest benefit from a superconducting cable technology implementation. This would typically represent a dense, urban environment. Therefore, cities such as Birmingham, Bristol, Cardiff and Nottingham will be considered.

Project Partners: University of Bath



FOR MORE INFORMATION CONTACT:

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