

Trends in new technology developments for asset management of pipe-type cable systems

SC B1 Insulated Cables – PS2 – Q2

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Trends in new technology developments for asset management of pipe-type cable systems

•PS2 – Q2: With the increased interest in retrofitting fluid-filled cable systems (pipe-type in particular) with extruded cables, what trends in technology are necessary to enhance the application, including high-stress dielectric designs, temperature performance, bonding system design and the necessary accessories?

Analysis and classification of different asset management strategies for fluid-filled cable systems

Replacement of HPFF cables, terminations, and joints with the same technology

Traditional approach until the introduction of Laminated Paper Polypropylene (LPP) insulation

Replacement of HPFF cables and their accessories with LPP technology

Thinner wall than Kraft paper
Can increase ampacity of the line in existing pipe-type infrastructure using a larger conductor

Partial conversions of HPFF to solid dielectric technology by utilizing transitional products

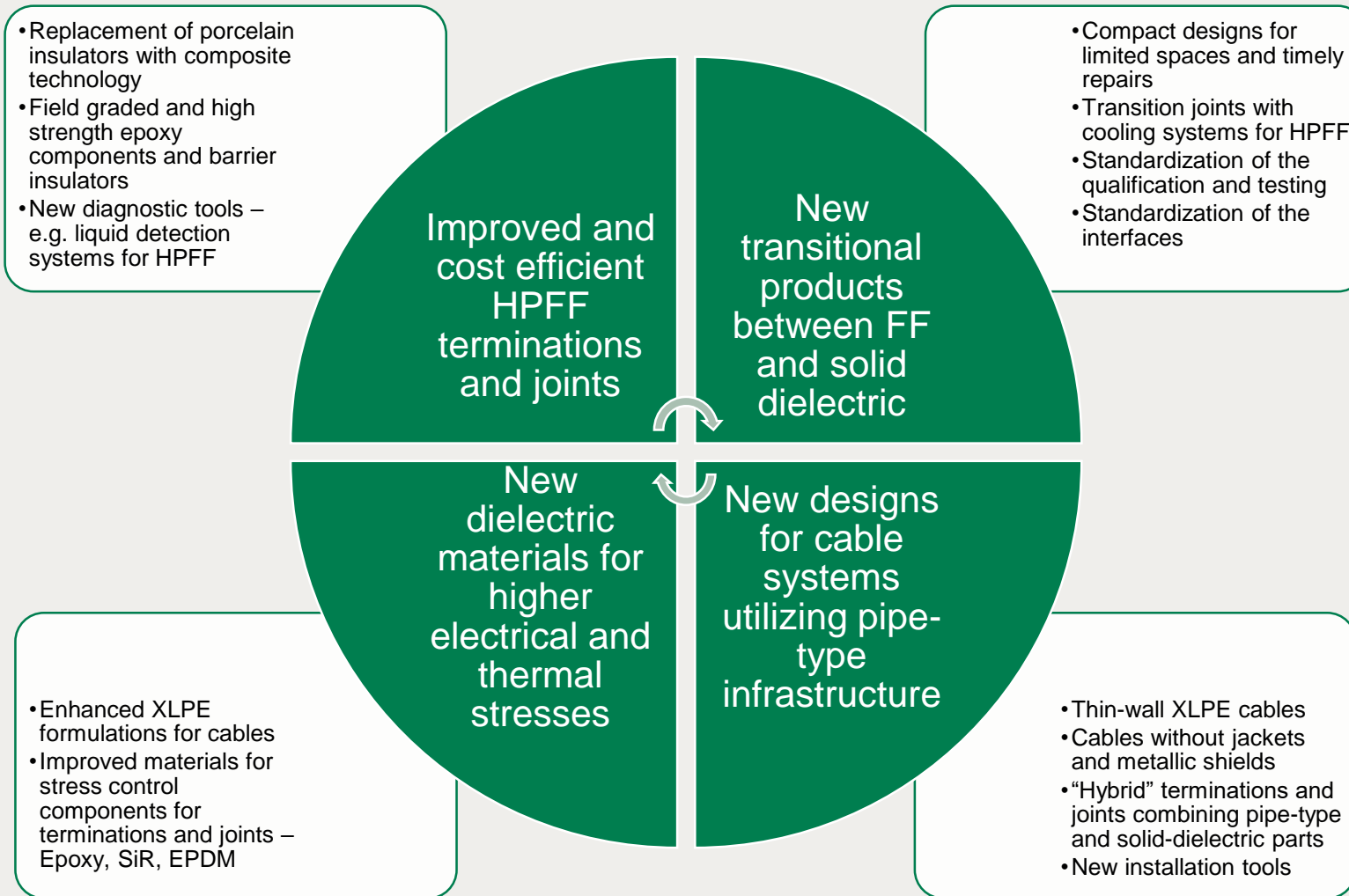
Replacing one or several segments of HPFF or SCFF circuit with solid dielectric technology

Full conversions of HPFF circuits to solid dielectric

Early days of adoption
Challenge: match or exceed the ampacity of existing HPFF system
Different new technologies and approaches, pilot projects

Group Discussion Meeting

Trends in new technology developments



Group Discussion Meeting