Transformer Service Success Story
TrafoSustainableRetrofit™ - Mobile Substation
Improving performance naturally

Mobile substations are an important tool for utilities providing an alternative pass for the energy supply when a substation needs maintenance in their main equipment, as well as in emergencies.

Compact, flexible and environmentally friendly
High flexibility of connections, voltage and power ratings and light weight are essential requirements for the application of a mobile substation. Therefore, engineering efforts are dedicated to producing very compact transformers with easy reconnection capabilities and higher power rating which is possible to transport over an agile trailer.

With a challenging need for power increase in an already compact transformer and a rising concern about the risk of environmental impact transporting a transformer filled with non biodegradable fluid could imply, the utility elected ABB as a partner to develop an alternative solution.

ABB completely retrofits the old 145 kV mobile substation with high temperature solid insulation and BIOTEMP®, biodegradable and less flammable fluid with superior stability. The main tank, bushings and tap changer of the 15MVA transformer as well as the auxiliary transformer were all filled with BIOTEMP® in the first mobile substation which runs 100% on vegetable oil.
For more information please contact:

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