

## Transformer service

# On-site transformer repair TrafoSiteRepair™

Get your transformer back in service in record time.

Combining more than 700 years of transformer manufacturing experience, Hitachi Energy is in a unique position to offer services for all brands of core and shell type transformers. Hitachi Energy on-site transformer repair solution provides greater speed of repair by bringing state-of-the-art factory capabilities to your site.

Hitachi Energy is ideally positioned to get failed or at-risk transformer assets fully up-and-running in record time because of access to original design files and documentation of technologies used over the last half century; as well as because of the current common design, manufacturing and quality practices used by Hitachi Energy transformer factories throughout the world.

Before recommending whether a transformer should be repaired on-site, repaired in a workshop, or replaced, Hitachi Energy performs technical and economical analysis of the transformer. The TrafoSiteRepair is often the best solution when transportation presents a challenge, as well as for difficult cases where infrastructure no longer supports the transportation of large power transformers.

### Bringing state-of-the-art factory capabilities to on-site

The same quality control requirements which apply in the factory are applied in the field:

- Strict quality control of materials
- Environmental control for critical processes
- Extremely high standards of workmanship
- Drying of the transformer using Hitachi Energy Low Frequency Heating (LFH) technology

### Hitachi Energy on-site transformer repair (TrafoSiteRepair™)

Typically consists of the following steps: disassembly of the transformer, replacement of the windings, refurbishment of the core, drying of the active part, and high voltage testing.

The following capabilities can be tailored to meet individual circumstances:

- If the customer does not have a repair facility, Hitachi Energy will arrange one. This will include building a temporary controlled environment for working on the transformer



- If there is no installed heavy lifting capability, Hitachi Energy will make arrangements to bring it to site. A core and coil assembly up to 400 tons can be handled on-site under Hitachi Energy expert supervision
- Hitachi Energy's experienced and skilled operation teams will work on-site during the different phases of the project. Throughout the project a supervisor will coordinate all activities
- Hitachi Energy provides full sets of special tools and fixtures
- Maintaining the dryness of the insulation is paramount for quality control. All windings are manufactured, dried and oil impregnated at the transformer factory. The final drying of the active part achieves a moisture level of <1%. The windings are specially packed, shipped, stored and ready for assembly on-site. Active parts are dried using LFH technology
- Testing of the assembled transformer is carried out using Hitachi Energy's mobile high voltage transformer test system (TrafoSiteTesting)

**Hitachi Energy**  
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