

SIEMENS

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Transforming future trends into innovations

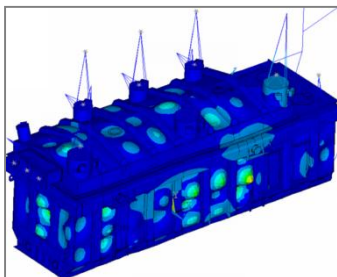
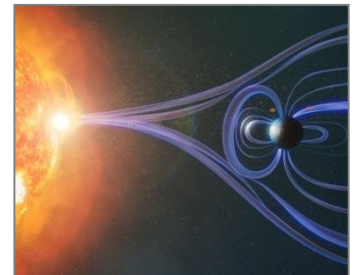


Fit for the future?

Let us inform you about environmentally friendly and more fire resistant insulating liquids, their advantages and our ongoing development regarding **alternative fluids**.

Able to withstand?

We know ways to prevent damage from outer space for your transformer. **Geomagnetically induced currents (GIC)**, which are a risk for electric infrastructures all over the world, could be no longer a danger for your grid.

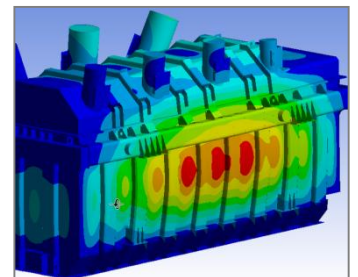


Hear the difference?

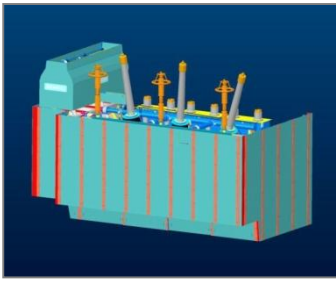
Low-noise large power transformers, are they possible? Yes, they are. We, as the industry leader in low-noise transformers, are able to provide the world's most compact designs to meet customers specifications and regulatory requirements.

Safety first?

Transformers are safe, long-lasting high-voltage converters, in principle. But one thing could never be excluded: transformer failures in operation like a tank rupture. **High-safety tank design** reduces the probability of a tank rupture, minimizes damage to the environment and losses for our customers.



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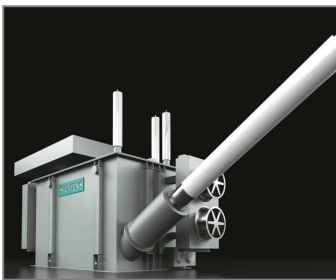


Feel protected?

Transformers and reactors are vulnerable to malicious attacks, especially those carried out with high-powered ballistics. To increase network safety and reliability, Siemens has investigated ways to produce **bullet resistant transformers**.

Annoying DC?

Even small DC in the grid can heavily affect transformers in terms of increased noise, no-load-losses and reactive power. The **Direct Current Compensation (DCC)** offsets the effects of direct current on transformers and restores the “low noise” to your “low noise transformers”.

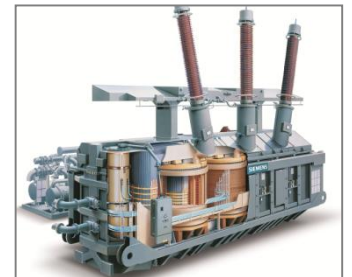


Mobile and flexible?

How to prevent operational risks, protect against vandalism and excessive heat and react in case of an emergency? Our solutions for power transformers could help you to achieve peace of mind in **grid resiliency**.

A whole lifetime?

To complete our portfolio we also offer service packages and **online monitoring systems** as well as long-term-service contracts with additional warranty time, a so called “all-round carefree package” for your transformer or reactor over its complete lifecycle.



Please note that there are other topics, which are also worth talking about like **stray flux, short circuit, low partial discharge,...**



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