ABB launches all-new intelligent transformer control and monitoring system

Transformer Electronic Control (TEC) - for "intelligent" transformers with optimized utilization and increased lifetime

Barcelona, May 26, 2004 – ABB, the leading power and automation technology group, has highlighted an innovative intelligent transformer control and monitoring system called Transformer Electronic Control (TEC) at Power-Gen Europe 2004. TEC gives energy suppliers accurate status information on their power transformers.

TEC provides information that helps utilities to optimize transformer operation and to extend transformer life. TEC also cuts costs by reducing maintenance requirements and increasing availability. To control and monitor the transformer, TEC obtains all data needed from just a few multi-purpose sensors. The complexity added to the transformer system is therefore minimal.

To achieve the goal of making power transformers "intelligent" and reduce maintenance requirements, ABB developed and integrated a common electronic interface that exchanges information with the devices used to control and monitor the transformer. The TEC software creates a virtual model that mirrors the actual performance of the transformer and compares the simulated and actually measured values. The system detects discrepancies and indicates potential malfunctions as well as monitoring normal wear and tear of the transformer and its auxiliary devices.

TEC features include optimized cooling control, temperature and overload calculation and forecasting, hydrogen and moisture in oil measurement, real-time status monitoring and availability determination, as well as an online user interface that provides access to detailed information and documentation. Environmental tests, hardware and software functionality tests and on-site tests around the world have demonstrated that the TEC system is an outstanding solution for substation applications. The system complies with all relevant EMC standards and environmental requirements for outdoor transformer applications.
ABB (www.abb.com) is a leader in power and automation technologies that enable utility and industry customers to improve performance while lowering environmental impact. The ABB Group of companies operates in around 100 countries and employs about 113,000 people.

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