



Efacec Digital Asset Management Solutions

Intelligent engineering services for power transformers

Join the digital age with this new Efacec solution, powered by Doble Engineering Company.

Efacec and Doble have joined forces to develop and offer an exceptionally comprehensive and modular digital asset management solution supported by deep and wide-ranging expertise.

The Portuguese company has worked with Doble to create a range of online condition monitoring and diagnostic packages to meet the needs of all customers in key energy sectors (Transmission, Distribution, Renewables, Industrial and Power Generation).

This joint solution boosts asset management of high-quality, condition-based power transformers to a new level, combining the aggregation of relevant synchronized data together with expert critique and high-quality condition-based field transformers..

This solution has been designed to be fitted to existing or new power transformers, to help you better understand the real condition of your power transformers while enabling optimized management of their performance.

Learn more about the brains behind this solution...

Efacec and Doble have been trusted providers of highly customized solutions to the global transformer community for decades.

ABOUT EFACEC

With more than 70 years of experience, Efacec holds a leading position in the power transformers market. The company build, manufacture and install these critical components for customers around the world, always with dedicated field force and support. Adding to all this, Efacec has a considerable knowledge of shell, core and mobile transformers designs, characteristics that are an additional quality assurance to the company's customers.

ABOUT DOBLE

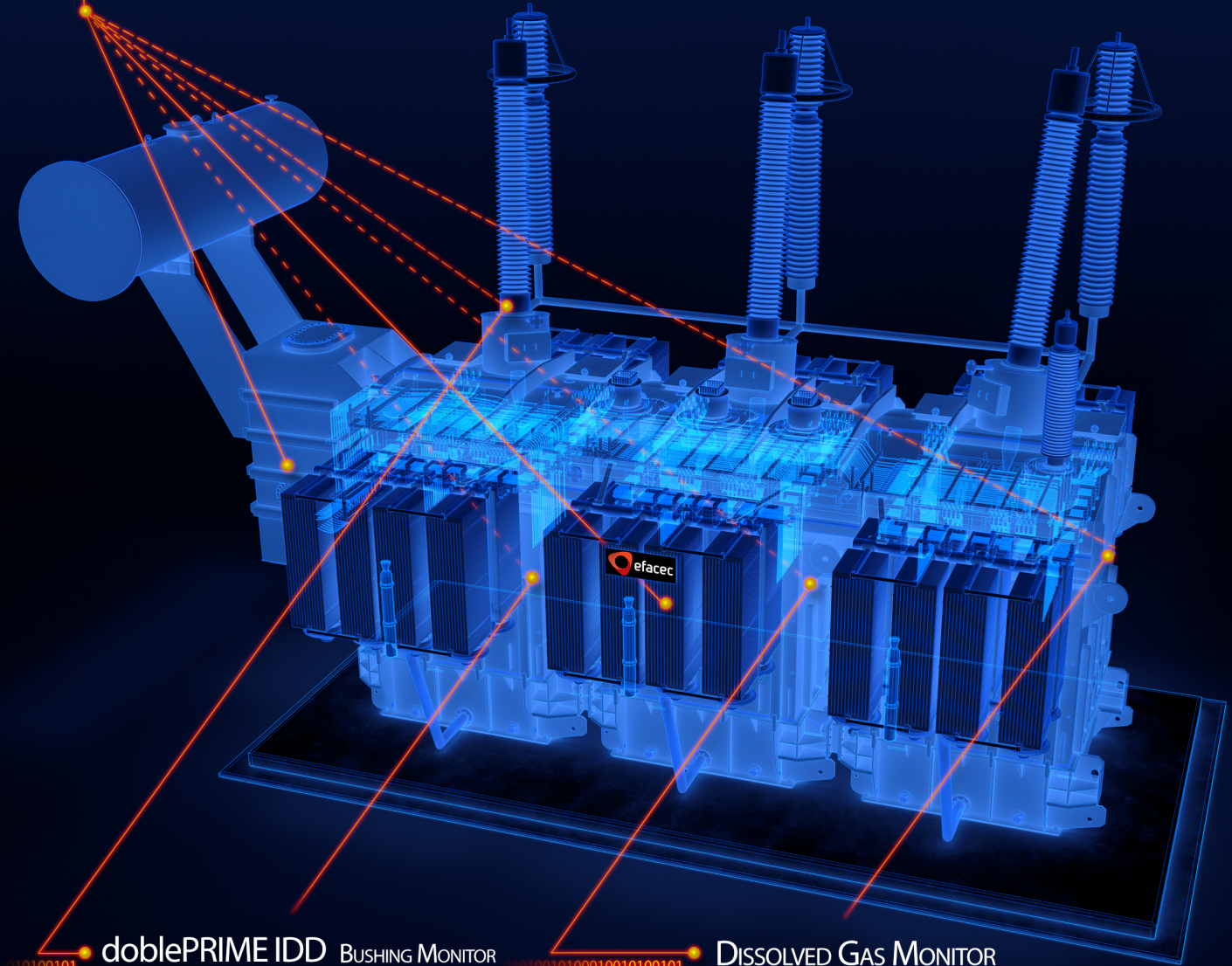
Founded in 1920, Doble with nearly a century of power industry expertise and over 20 years practical real-world experience with online condition monitoring systems. Doble has many documented examples of condition monitoring saving transformers from catastrophic failure – through detection of bushing deterioration, DGA variation, and escalating partial discharge.

EFACEC SYSTEM POINT AND dobleARMS®

A centralized data management solution to provide a comprehensive view of the entire asset fleet. All packages are supported continuously by true transformer experts. The different combinations of monitoring modules have been chosen carefully to create a scalable system which provides flexibility into the future.

EFACEC SMART AGGREGATOR AND doblePRIME™

Collates analog and digital inputs to bring in contextual data for more complete and comprehensive decisions: load, temperature and more. All data is accessible through a simple web interface or easily integrated into a centralized data management solution. These units are an important piece of architecture bringing in true modularity capabilities enabling progressive investment approaches.



doblePRIME IDD BUSHING MONITOR

World leading bushing monitor measuring parameters directly related to bushing failure, including individual bushing leakage current waveforms and harmonics. Bushing saves preventing catastrophic transformer failure have been documented and shared with the industry.

DISSOLVED GAS MONITOR

Highly accurate and reliable Dissolved Gas Analysis (DGA) monitor, from hydrogen and carbon monoxide to full multi-gas, we can recommend multiple analysers with the best performance in the industry. Some of the analysers may be interchangeable enabling progressive monitoring strategies dependent on the criticality advised by the offline measurements.

FIBER OPTIC HOT SPOT MONITOR

Offers direct, real-time, and long-term monitoring of power transformers windings or other internal components, enabling Efacec recognised thermal analysis. This is exclusively applicable to new transformers or to complete refurbishments.

doblePRIME PD-GUARD

Combines partial discharge (PD) severity trending for PD detection with detailed diagnostics to allow for interpretation of the signals recorded. Documented detection of PD sources in transformer main tank and tap changer have been shared with the industry.

➔ For more information or to schedule a demo please contact: efasset@efacec.com