## LOW FREQUENCY HEATING SYSTEM (LFH)



Time saving and reliable new drying technology for transformers



- Drying up to "3" different transformers together\*
- Minimum depolymerization aging of insulation
- Up to 40% lower energy consumption costs\*\*
- Minimum 50% shorter drying process time\*
- Higher and accurate moisture reduction

\*: Values are determined considering a transformer plant with distribution transformer production which has a power capacity range between 250 kVa and 30 MVa. Please consult to our company for different working conditions.

\*\* : Values are given referring to a distribution transformer plant which was using continuous heating system with electrical energy before implementation of LFH system.



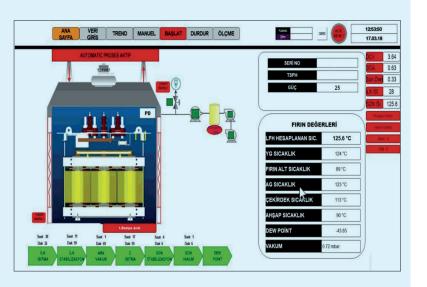
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## **Innovation Story**

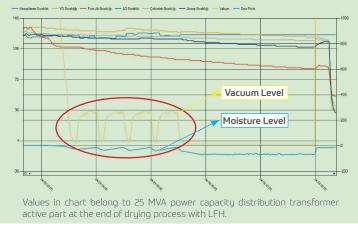
Old technology used for elimination of moisture inside the transformers was continuous external heat energy source utilization. However experiences showed that this type of technology has low efficiency and high consumption of energy. LFH system provides much more certain moisture reduction by using the combination of temperature and vacuum.



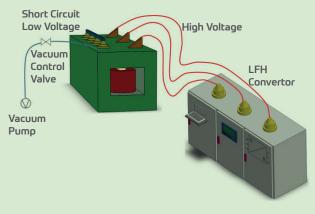
## Working Principle

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Active part of transformers must be heated under vacuum for an optimised drying process. However according to electrical laws under vacuum, the breakdown voltage is much more lower than under atmospheric pressure. Therefore thanks to low frequency technology, short circuit voltage can be



applied to the transformer without any harmful impact. Thus high current flow with low voltage is provided on both LV & HV windings. In conclusion heat energy which is needed for drying is generated by the transfomer itself.



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