

Success Story : Smart Transformer Monitoring with ND45 and SCADA

Customer Overview :

A prominent industrial manufacturing facility operating on high-capacity power transformers to support its energy-intensive production processes. Recognizing the critical role of these transformers in maintaining uninterrupted operations, the facility sought to enhance its monitoring capabilities to prevent potential failures and associated downtime.

Problem Statement :

The facility faced challenges in proactively monitoring the health of its transformers. Traditional monitoring methods lacked real-time insights into key parameters such as internal temperatures, load variations, and the operational status of auxiliary systems like cooling fans and dampers. This limitation increased the risk of unforeseen transformer failures, leading to costly production halts and significant financial losses.

Solution Approach :

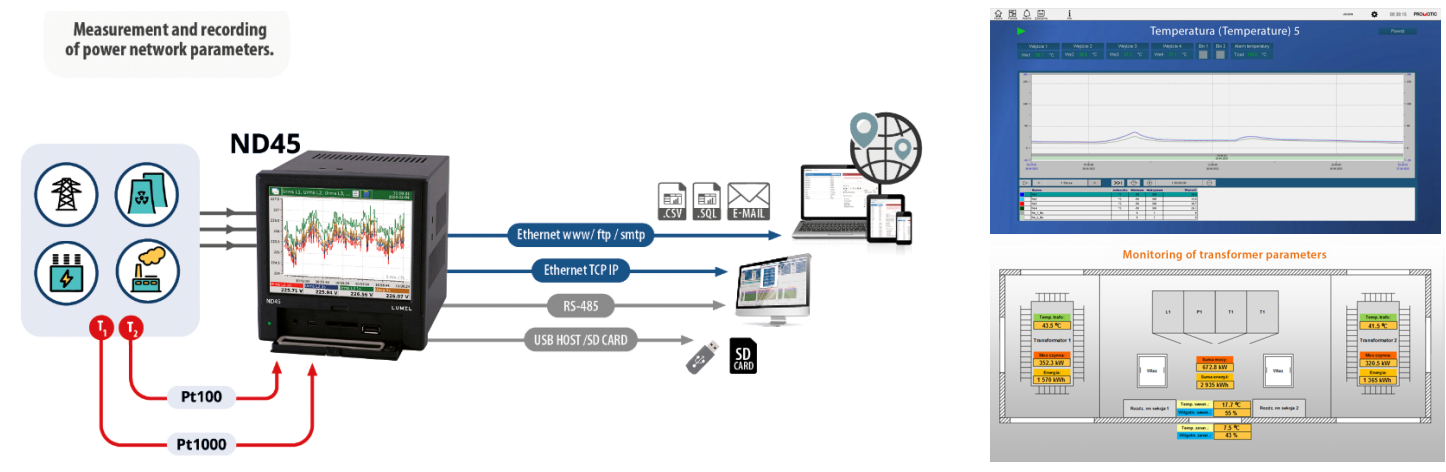
To address these challenges, the customer collaborated with us to implement an advanced transformer monitoring solution.

Sifam Tinsley Instrumentation Inc.

Address: 2105 Barrett Park Dr, Unit 105, Kennesaw, GA 30144
Tel.: 800-879-6171 | **E-mail:** info@sifamtinsley.com | **Web:** www.sifamtinsley.com

Solution Approach :

- **ND45 Analyzers Deployed :** Installed at key transformer sites to monitor 500+ power quality parameters like voltage, current, power factor, and harmonics.
- **SCADA Integration :** Linked with Promotic SCADA for real-time data visualization, remote monitoring, and control of transformer performance.



Results and Impact

- Real-time Health Insights
- Extended Transformer Life
- Optimized Maintenance Planning
- Improved Asset Reliability
- Regulatory & Safety Compliance

By leveraging our advanced monitoring solutions, the customer significantly improved the reliability and efficiency of its transformer operations, setting a benchmark for modern energy infrastructure management.

Sifam Tinsley Instrumentation Inc.

Address: 2105 Barrett Park Dr, Unit 105, Kennesaw, GA 30144
Tel.: 800-879-6171 | **E-mail:** info@sifamtinsley.com | **Web:** www.sifamtinsley.com