Anomalies Detected

Should you believe your SCADA?

Case study: Inefficient operation of cooling system due to incorrect SCADA functionality.

Problem: During the transition from summer to winter mode, one of the cooling system pumps frequency converter failed to accept SCADA command to lower the frequency from 40 Hz to 25 Hz. Frequency converter continued to operate in the previous mode, while SCADA indicated that the command had been executed.

Solution: Through a comprehensive analysis of the system energy consumption and its operating modes using the HiPerWare platform, an incorrect reaction to a SCADA command was identified. The problem was attributed to human error, as the frequency converter during regular maintenance had been set to keep at least 40 Hz frequency.

Result: HiPerWare's in-depth analysis of technical operations and SCADA parameters enabled the identification of the incorrect behavior and subsequent adjustments in line with the company's requirements. As a result, the solution ensured the proper functioning of all utility systems, prolonged the lifespan of these systems, and reduced energy consumption of the pump by 35%.