

Case Study

Reducing Downtime in HVAC Systems Argus in Chillers, Centrifugal Pumps and AHU Blowers



Case Brief

Customer Requirement

The Chiller plant in the utility building includes Air handling units, Pumps, Compressors and exhaust air units totalling 76 assets. The maintenance team do not have a condition monitoring team to predict the health condition of the assets and deputed SANDS to assess the health condition of the assets.

Solution

All the bearing points were analyzed using ARGUS Sensors. The vibration data spectrum was analyzed in-depth and found that 19 assets were in marginal health level and 8 assets in critical health level. Defects frequencies indicated structural looseness, pulley eccentricity, belt looseness and misalignment in the assets. A detailed diagnostic report was submitted along with recommendations and solutions.

Result

The maintenance engineering team performed corrective actions as per SAND's recommendations. All the assets were normal health level post corrective actions. This resulted in a machine downtime reduction of 30% with visible savings on manpower cost, maintenance cost & spare replacement costs.

About Us

Signals & Systems (India) Private Limited, known by the brand name SANDS, is primarily a technology company, developing and manufacturing niche-technology products using embedded technology for the Industrial segments, Generation, Transmission & Distribution segments of the Power Industry. On the Services front, we specialize in Meter Data Analytics for Power Distribution companies, to curb energy thefts and help in revenue protection. We also undertake online testing of energy meters on behalf of the utilities as part of the regulatory requirements.

 +91 8056020558

 sales@sandsindia.com

 www.sandsindia.com

 15/D-19, Third Main Road, SIPCOT IT Park, Siruseri, OMR, Chennai-603 103

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