Avoid the three main failure modes of electrical power critical assets.

- Poor Connections
- Insulation Degradation
- Partial Discharge
- Air Dielectric Breakdown
- Humidity

SOLUTION
IntelliSAW CAM platform offers real-time, continuous monitoring with non-invasive, wireless, passive sensors.

APPLICATIONS
Critical Assets in the 1kV - 60kV range:
- Switchgear
- Bus Ducts
- Generator Circuit Breakers
- Transformers
- Rectifier Stacks
- Capacitor Banks
HOW IT WORKS

Temperature Monitoring
Wireless, passive Surface Acoustic Wave (SAW) sensors are directly mounted to critical measurement locations while antennas are mounted to the walls of the asset. RF interrogation signals between monitoring unit and sensors are used to determine the temperature.

Partial Discharge Monitoring
Ultra High Frequency (UHF) antennas acquire electromagnetic radio waves in the 50 MHz to 2 GHz range. Data is analyzed against power line frequency to determine surface discharge (corona) and internal discharge (PD) levels.

Humidity Monitoring
Rugged humidity and ambient temperature sensors mounted in asset enclosures or bus ducts are wired back to a monitoring unit.

Data Analysis & System Integration
Complex data is distilled down to trendable, actionable information. Data can be viewed locally on an HMI and transmitted to a SCADA system or historian for recording and reporting.

INCREASE PROFITABILITY

<table>
<thead>
<tr>
<th>INCREASE PROFITABILITY</th>
<th>INCREASE RELIABILITY</th>
<th>INCREASE SAFETY</th>
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<tbody>
<tr>
<td>Reduce manual rounds / truck rolls</td>
<td>Optimize asset performance</td>
<td>Predict and prevent</td>
</tr>
<tr>
<td>Lower maintenance cost</td>
<td>Fast identification of problems</td>
<td>Improve response time</td>
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<tr>
<td>Minimize downtime</td>
<td>Proactive planning and repair</td>
<td>Monitor limited access areas</td>
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<tr>
<td>Extend life of the asset</td>
<td>Avoid catastrophic failures</td>
<td>Keep employees, facility, community, and environment safe</td>
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IntelliSAW system deployment
ROI is less than 1 year.