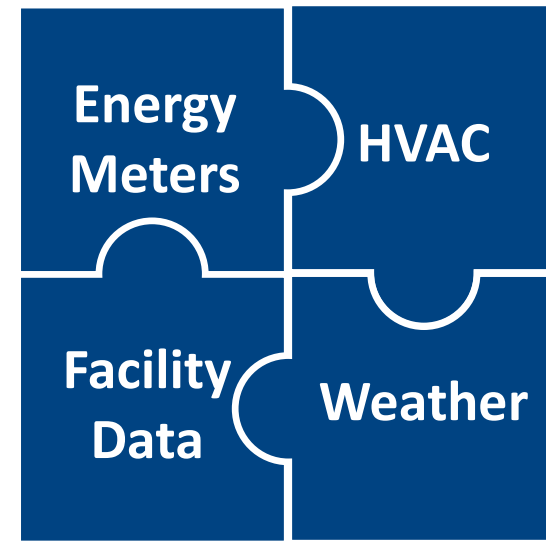# ATS facilityCARE

ATS' facilityCARE

is an ongoing commissioning and advanced analytics service that examines building energy and equipment data to identify issues, faults and opportunities for improved system performance and savings. This service combines ATS' years of facility expertise and SkyFoundry's SkySpark technology to provide a solution that catches and addresses energy waste and system issues as they happen.

Facility managers face many challenges to run their buildings as efficiently as possible; rising energy costs, shrinking budgets and limited manpower. However, the greatest hurdle is the lack of time to uncover and address all the known and unknown problems throughout their facilities. Modern building automation systems provide a tremendous amount of data regarding operations, the problem is not a lack of data, it's how do you sort through the data white noise to find the operational changes that offer the biggest payback for your time and energy. facilityCARE takes the guess work out by telling building operators what is worth paying attention to and where their efforts will have the greatest impact.

Using ATS' library of analytic rules, facilityCARE is able to distill information to operators without having to hunt through alarms, graphs, trends and spreadsheets from various automation systems. As an ATS facilityCARE user you have the added benefit of a continuously improving analytic rule set and algorithms that are customizable to your needs. When the library of rules finds a correlation or matching condition, a "spark" is automatically

generated to notify the team of the problem. facilityCARE is scalable and is being used to provide relevent and practical data for single buildings, whole campuses and across entire global real estate portfolios. From a single building meter to an entire enterprise system's building automation system, facilityCARE maximizes the existing infrastructure of your facility to create actionable intelligence that will save energy and improve the operation of your facility.

Energy Meters | HVAC | Facility Data | Weather

facility
Continuous Commissioning
Advanced Fault Detection & Diagnostics
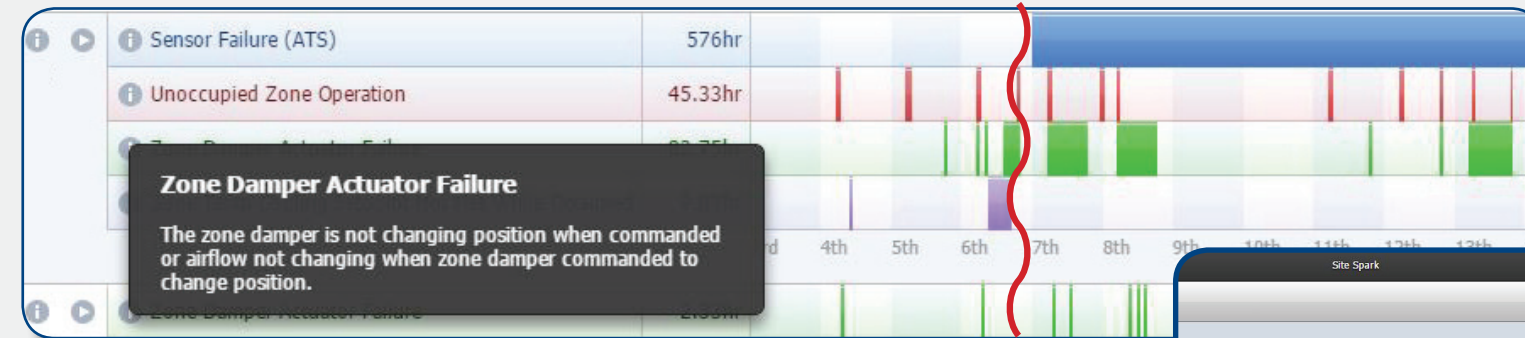**R**eporting
Energy Analytics & Alarming

facilityCARE Features

- Dedicated ATS Energy Engineer support.
- Secure cloud based or onsite application hosting.
- Increased efficiency and lower operating costs.
- ATS Standard Analytics Library.
- Custom analytic rules.
- Key Performance Indicators.

- Organize and visualize massive amounts of facility data.
- Identify opportunities quickly, efficiently and automatically.
- Respond faster and better informed to issues.
- Reports and visualizations tailored to your needs.
- Leverage existing systems.

facilityCARE in Action

Overridden Damper

ATS facilityCARE identified and solved a costly issue within a large Seattle office building before it showed up on their electric bill. A VAV primary air damper was found to have been incorrectly overridden open. As a result, the zone was simultaneously heating and cooling. This issue had not caused any temperature complaints yet and would not likely have been caught if a "spark" indicating the unnecessary reheat had not been sent.
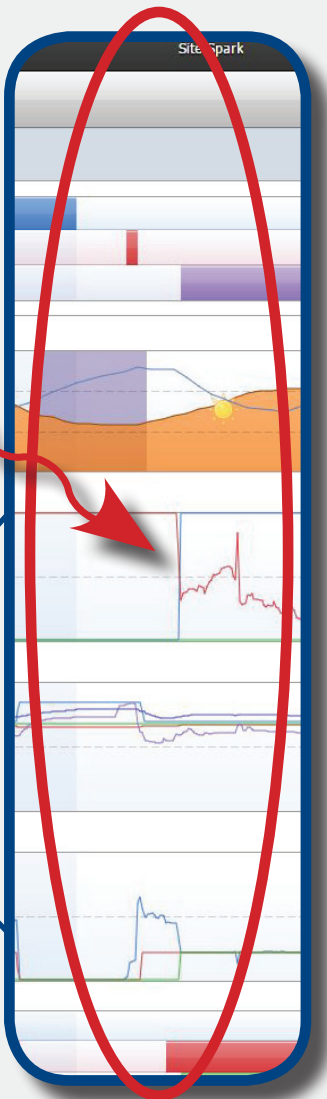
| Sensor Failure (ATS) | 576hr |
| Unoccupied Zone Operation | 45.33hr |

Zone Damper Actuator Failure

The zone damper is not changing position when commanded or airflow not changing when zone damper commanded to change position.

Spark notifications for associated VAV. Red line denotes the start of the simultaneous heating and cooling as well as the forced open damper.

Equipment view of VAV Spark showing the damper as it is forced open.

Override corrected. Unit now following proper operation.

facilityCARE Process

facilityCARE is a process-based service that combines leading edge SkySpark technology and ATS Energy Engineering expertise to proactively identify energy waste and system inefficiencies. Each step feeds into the next and develops a feedback loop for continuous facility improvement.

Track 05
The ATS Account Manager will track the actions taken and the energy faults corrected.

01 Monitor
facilityCARE software, SkySpark, continuously monitors the operation of HVAC and metering systems. The software identifies energy and cost saving opportunities by combining automated analytic libraries with custom analytic rules to produce efficiency and maintenance actions.

02 Analyze
An ATS Energy Engineer will analyze the site data, energy alarms, and faults on a monthly basis and identify areas for corrective action.

Act 04
The ATS service team or onsite facility engineering team will implement the plan of action to resolves issues before they become costly or detrimental to facility operations.

Plan 03
The Energy Engineer will review findings and recommendations with the onsite engineer. Together ATS and the onsite team will determine a course of action addressing issues uncovered during the analysis.

About ATS

ATS, established in 1986, specializes in custom engineered and installed Building Automation Systems control solutions for buildings' mechanical and electrical systems, allowing owners to reduce energy consumption and maximize effectiveness of facilities management personnel. ATS has offices and provides services in Washington, Idaho, Montana, Colorado, Wyoming and Alaska. Contact your local ATS representative to find out how you can start running your building more efficiently and economically. Visit www.atsinc.org to find the location near you.

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