

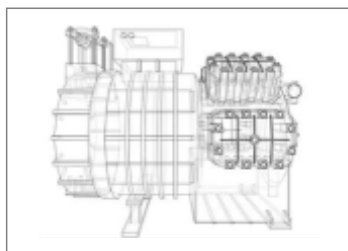
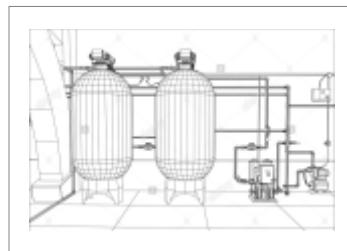
axis CONSERVE 4.0

**AN INTEGRATED HARDWARE AND SOFTWARE
IOT SOLUTION FOR SUSTAINABLE MANUFACTURING**

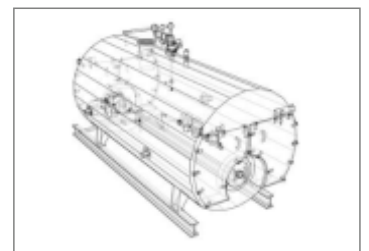
axis CONSERVE 4.0 is an Industry 4.0, cloud based, IoT enabled analytics solution for industrial utilities that delivers improved performance, significant reduction in cost, increased asset life and contributes to your sustainability objectives.



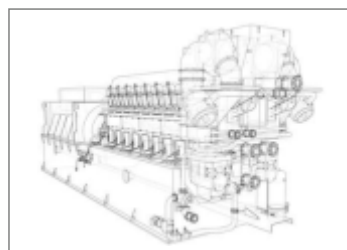
Reduce
20%
energy in compressors



Improve
5%
boiler efficiency



Reduce
15% in max
electricity demand



Eliminate
ETP
upsets

axis CONSERVE 4.0

Expertise on all basic utilities

Boiler/Thermic Fluid Heaters

- Easy identification of leakage by monitoring and comparing feedwater and steam flow rate
- Real time monitoring of efficiency drop helps in identifying and rectifying losses because of insulation damage, soot deposition etc
- Improvement in boiler efficiency through real time monitoring of flue gas - oxygen and temperature

Water/Effluent Treatment Plants

- Improve performance and life of membranes through continuous monitoring and comparison of permeate flow and temperature
- Helps eliminate ETP upsets by monitoring critical parameters such as TDS, temperatures, permeate flow etc
- Early warnings on potentially non-compliant discharges

Compressors

- Improved utilization and reduction in energy consumption through regular monitoring loading/unloading patterns
- Enhance the performance and life of the moving components by continuous monitoring of specific energy consumption

Chillers

- Insights from increase in energy consumption (kW/TR) to check for maintenance in insulation, pumps and motors
- Greatly enhance operating life and efficiency through routine monitoring of approach temperatures

Pumps*

- Insights on current drawn, temperature, vibration analysis to pre-determine potential failures/breakdowns
- Enhanced maintenance scheduling and improved energy efficiency resulting in improved pump life and cost savings

Diesel Generators*

- Savings through monitoring and alerting of theft/leakage
- Early warnings by analysing noise level variations, overheating and usual engine temperature

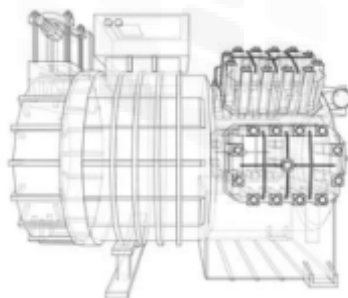
Electrical Energy/Power Management

- Reduction in energy losses through reduction in equipment idle time
- Reduction in maximum demand electricity charges through better load monitoring and scheduling
- Reduction in energy consumption through monitoring of distribution/transmission and power factor

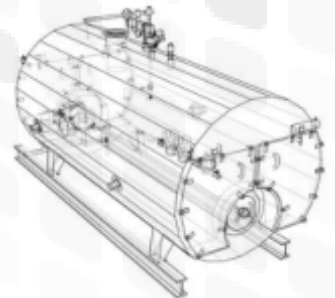
* Features that will be available in our future releases.



Compressors



Chillers



Boilers



axis CONSERVE 4.0

Empowers with actionable insights to quickly improve performance



Deviation Analysis

- Easily identify deviating parameters
- Spot inconsistencies against threshold across time periods
- Compare and analyze KPIs and parameters across equipment
- Analysis of extent, occurrences and duration of deviations



Performance Analytics

- Specific fuel/energy consumption reports
- Efficiency analysis across equipment
- Track run hours and idle hours of each equipment
- Unified reports of multiple equipment
- Daily, monthly and annual reports



Energy Consumption Analysis

- Current and historical energy consumption across equipment
- Running load versus peak load reports
- Ease of compliance with ISO:50001
- Daily reports on critical and non-critical loads



Benchmarking

- Quickly benchmark equipment parameters
- Improve operating practices



Alerts/Notifications

- Timely alerts for immediate action
- Know critical variations to reduce wastage, improve efficiency and prevent breakdowns
- Notification on any device, anytime and anywhere



Easy Onboarding

- Seamless integration with multiple makes and models
- Easy and swift onboarding of industrial equipment
- Realize value quickly with pre-defined models
- Pre-configured industrial equipment templates



Consolidated Dashboards

- Easy access dashboards specific to users
- Unified access to multi-plant/unit level dashboards
- Hierarchical views – section and equipment level



Data Security and Protection

- Secure and encrypted data exchange from edge to cloud
- Role based access control to information
- Zero data loss through data replication
- Hosted on ISO 27001 certified Cloud provider
- Edge storage to protect from network failures



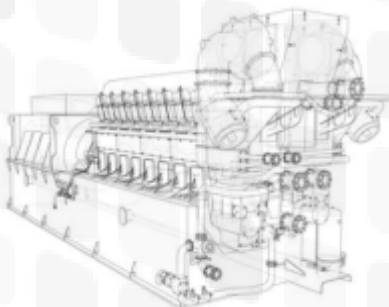
Reports

- Easy access to KPIs and trends
- Download reports in easy access formats
- Subscription to automated email reports

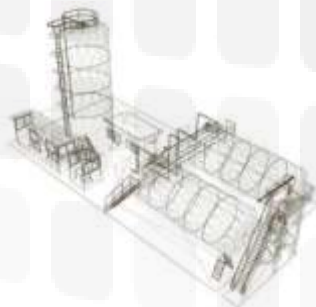


Business System Integration

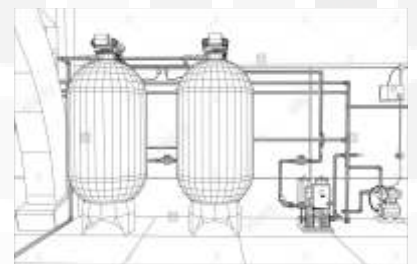
- Easy integration with MES and ERP
- On demand access to service ticketing/maintenance systems



DG Sets



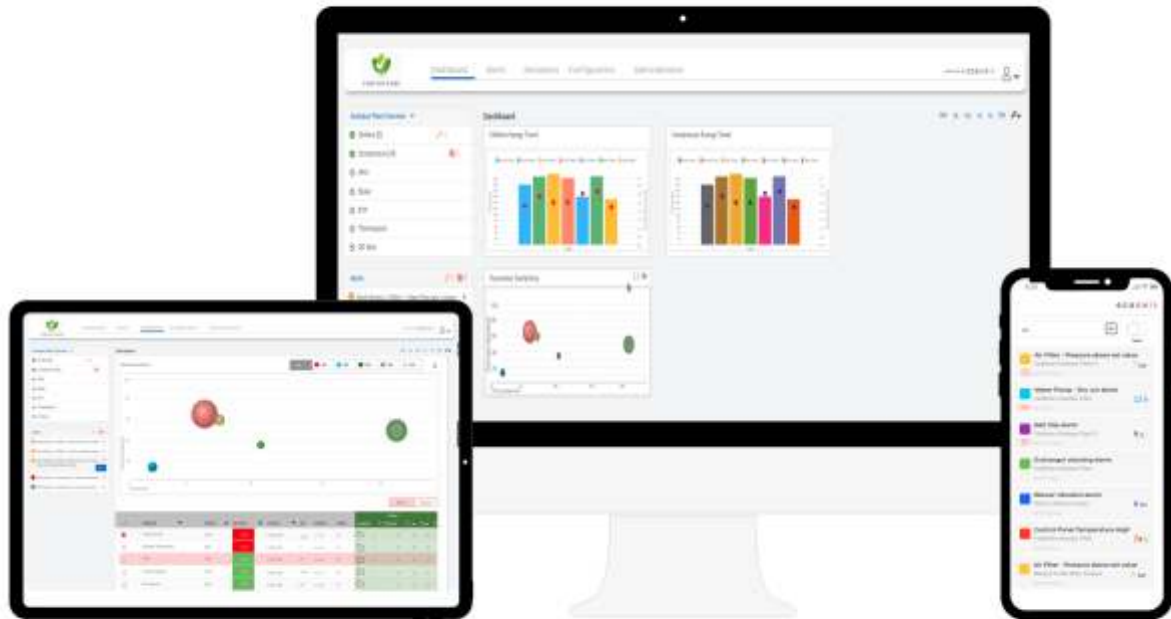
Thermopacks



ETPs and more



Anywhere anytime on any device



EcoAxis is a pioneer in the Industrial Internet of Things (IIoT). We have deep experience, expertise and commitment towards developing intelligent and actionable insights to deliver business value. EcoAxis delivers end to end solutions all the way from consulting, data acquisition, edge computing, BigData processing, operational and business analytics to machine learning - delivered via our cloud based framework SuperAxis.™