VENTANA - IOT DATA MONITORING AND ANALYSIS PLATFORM

HVA
SYSTEMS LTD

OVERVIEW

- IOT data gathering, monitoring and analysis platform
- Web browser access - available anywhere, anytime
- Unlimited data points and storage period
- Measured parameters can be monitored (Temperature, pressure, power, flow, humidity, gas levels, speed, meters etc.)
- Used for :
  - Remote monitoring
  - System optimisation
  - Remote meter reading
  - Fault alarms
  - Carbon reporting and monitoring
  - Controls commissioning
  - District heating monitoring
- Integration with third party BMS and control systems

BACKGROUND

Initially developed as a tool to support the commissioning of HVA's BMS systems (a function so useful we don't think it's possible to effectively commission control systems without it), it's worth was immediately apparent as a standalone product. Integrating with third party controls, BMS systems and bespoke data capture systems, it provides an immensely powerful data gathering, analysis and monitoring system for a broad range of applications.

If a parameter can be measured – Ventana can monitor it.

SOLUTION

Motivated by a passion for energy reduction through effective system design and controls, HVA developed Ventana, an IOT data capture and analysis platform. System data is first captured on site, typically by the monitoring via local standard communication protocols. This data is uploaded to the Cloud and presented through via web browser. The graphical nature of the interface is configurable to customer requirements.

Data storage is almost unlimited providing the ability to record multiple parameters at short intervals and for long periods. Ideal for checking performance over long periods and for assessing the impact of system changes. By utilising standard industry communication protocols, Ventana is capable of integrating with most third party control systems. The monitoring of 7 sites for one customer using Trend based controls has facilitated significant system improvement and energy savings.

This was installed and running within 2 weeks of receiving the go ahead making it very fast, much more capable and extremely cost effective against OEM solutions.

The capability to integrate with utility meters (water, gas, electric, heat) enables Ventana to monitor and report on a systems' carbon usage.

An additional fuel monitoring system allows remote management and monitoring of bulk fuel stores, e.g. oil boiler and biomass boiler systems.

Email alarms can be set up to alert system operators in the event of a fault or if parameters are out of scope.

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RESULT

Ventana is being used on an increasing number of sites to provide remote monitoring, optimisation, fuel usage and system alarms. As a commissioning tool, it has proven to be invaluable and the ability to integrate with many existing control systems makes it very powerful and versatile.

With the drive towards Carbon Reporting (and reduction), Ventana provides an ideal platform for data collection and the ideal tool to track carbon reduction.
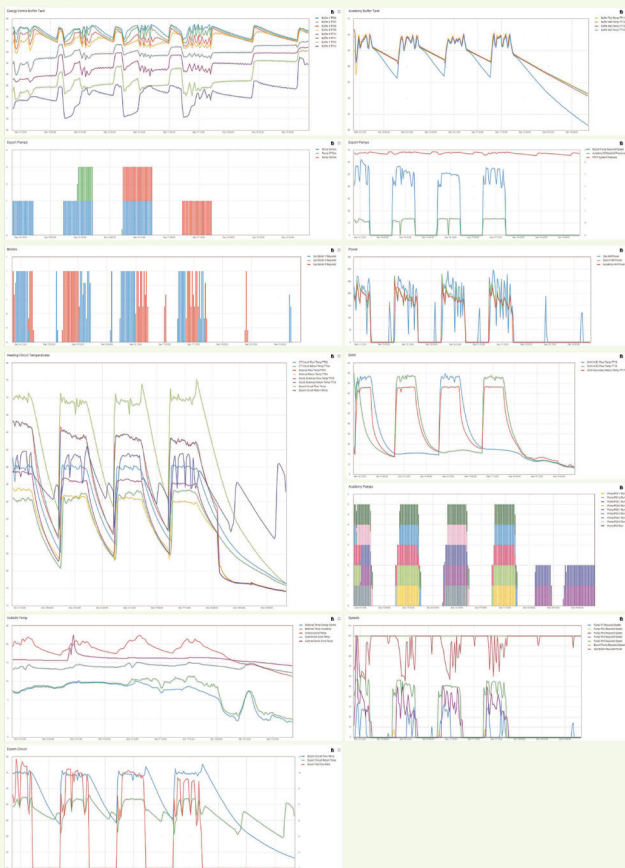
CONTACT

For further information on this case study or to find out how HVA Systems can help your organisation, please contact **enquiries@hvasystems.co.uk** or call **0771 3628116**.