

AQUAVISTA™

DIGITAL SERVICES



New vision for your water treatment



Today's operators of water and wastewater treatment facilities face an array of challenges:

- reducing capital expenditures
- optimizing energy and chemical consumption
- improving operating efficiency and stability
- minimizing maintenance and preventing costly downtime
- reducing non-compliance events and limiting environmental impact
- ensuring equipment monitoring
- getting a coherent view of operating status

WE KNOW WATER

Veolia Water Technologies is the only company in the world that provides you with solutions for all water processes:

- wide range of technologies
- water treatment expertise
- digital tools
- many global and local references
- local field service network
- 160 years of experience

AQUAVISTA™, intelligent water management

AQUAVISTA™ offers a wide and flexible range of digital solutions that responds to your challenges. From operators to management, AQUAVISTA™ provides you with a tool to efficiently manage connected water treatment equipment and plants.

The data is aggregated and can be enriched through a suite of intelligent water process applications and algorithms. It is securely stored in the cloud and accessible to you any time, anywhere, on any device through a single private and secure portal.

All features are available to you in real time, providing a full dashboard overview of all information needed to make the right business decisions for your plant.

AQUAVISTA™ digital solutions can be implemented for Veolia and non-Veolia technology, a range of equipment, existing or new industrial and municipal water treatment plants for all applications: drinking, waste and process water.

AQUAVISTA™, all-in-one water digital service



Through our modular offer, you have the flexibility to choose the service level to meet your needs.

AQUAVISTA™ Portal

A customer portal for remote monitoring and reporting with a complete overview of all your data

KEY FEATURES

- real-time remote monitoring of equipment data
- dynamic alarm management
- event notification, e.g. outstanding maintenance
- automatic report generation
- information on service contracts / reports
- archive of all service and sales orders
- access to equipment documentation, performance document, calibration certificates, O&M manuals, parts lists and training videos, etc.

ADDED VALUE

- improvement of preventive maintenance through dynamic alarm management
- access to data from multiple sites via a single point of entry
- 24/7 managed service
- convenience, transparency and simplified operations



Different mode of visualization available in AQUAVISTA™ Portal

AQUAVISTA™ Insight

A data driven performance optimization tool

KEY FEATURES

- key operational information overview in form of dashboard
- analysis of a plant's operational and financial performance
- global benchmarks to compare performance across different sites
- scenario planning as a basis for optimization

ADDED VALUE

- A dashboard for managers, operators and engineers, to make informed business decisions.
- simple overview over key performance indicators
 - continuous optimization of the operation
 - predictive maintenance
 - global benchmarking to apply successes throughout various sites



Beyond regular KPI monitoring, view of advanced analytics to improve business decisions in AQUAVISTA™ Insight



AQUAVISTA™ Plant

A real-time performance optimization solution for water treatment facilities

KEY FEATURES

- suite of intelligence software features operating in real-time
- an automated state-of-the-art plant overview
- online optimization & forecasting tool
- plant KPIs to monitor the plant's performance
- document management
- state of the art plant overview

ADDED VALUE

- increased stability of the plant
- facilitated compliance
- optimized use of operator time, focus on other added-value tasks



AQUAVISTA™ Plant is installed at over 100 water treatment plants and installations worldwide.

Recorded impacts up to:

- 40% higher biological capacity
- 100% increase in hydraulic capacity
- 25% energy reduction for aeration
- 75% energy reduction for grit chamber aeration
- 75% reduction in energy use for internal nitrate recirculation
- 100% reduction in chemical use
- 20-50% in overall cost savings

AQUAVISTA™ Assist

Access to Veolia's process experts for readily accessible assistance

KEY FEATURES

- network of Veolia experts to support operations
- advice in a timely manner, enabled by data and a communication platform
- community management where operators can communicate and share knowledge with other operators and Veolia process engineers
- online training platform

ADDED VALUE

- operators can request support from Veolia (site visit, online assistance for maintenance service, troubleshooting, emergency support)
- risk mitigation to address your challenges (compliance, plant shutdown, etc.)
- peace of mind for the operation team
- continued learning and sharing of experience



View automatically calculated KPI's from process and operation from AQUAVISTA™ Plant User Interface

Run on today's most secure cloud-based systems



End-to-end security

Best-in-class security is fully integrated into AQUAVISTA™, from data acquisition and transfer to aggregation, analysis and reporting. Veolia Water Technologies is committed to protecting the integrity of physical devices, networks, programs and data from attack, damage, or unauthorized access.

This commitment is backed by:

- policies & procedures - compatible with your corporate security policies
- network infrastructure - hosted on a secure Amazon Web Services infrastructure
- user management & accountability - unique user logins, configurable user rights different to different devices, connection audit trail
- utilization of Transport Layer Security encryption to secure customer and process data

The AQUAVISTA Digital Trust targets three sections of your digital landscape:



PHYSICAL SECURITY
Data acquisition



NETWORK SECURITY
Data transfer



CLOUD SECURITY
Data aggregation & data analysis

Customer feedback



We have had AQUAVISTA Plant for more than 10 years; we reduced the chemical consumption by 25% when we started using AQUAVISTA Plant and we can optimize the process so we have had a higher hydraulic capacity. I can optimize the plant's process so we get the best effluents of the plant."

Karin Refsgaard, operation manager - (BlueKolding - Denmark)



Access to an interface that centralizes water quality histories and allows us to view all these main parameters on a single page - temperature, conductivity, resistivity - provide a guarantee of traceability; as well as access to the calendar of events, allowing us to view the history of alarms. We become more efficient! We can immediately provide all the information requested during the COFRAC audits."

Dr David-Paul De Brauwere, hospital practitioner at the Biochemical & Molecular Biology laboratory - (CHU Nîmes - France)

Resourcing the world

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