We are in the business of reducing energy, cost and emissions. We offer class-leading pump efficiency measurement and pump optimisation expertise to industry. We also have a proven track record in the reduction of cost, energy and emissions, with services ranging from in-situ pump performance testing and real-time pump monitoring, through to network optimisation and turnkey engineering projects.

Our offices in the UK and Asia are well placed to support the modern water industry – primarily through our portable and installed pump performance monitoring products, which are manufactured in the UK and exported globally.

To deliver excellence in our optimisation projects, we aim to work with local partners who know clients’ sites and have established relationships. This leads to greater efficiency, less cost and excellent ongoing support.

*About Riventa*

We offer class leading pump efficiency measurement and pump optimisation expertise to industry. We also have a proven track record in the reduction of cost, energy and emissions, with services ranging from in-situ pump performance testing and real-time pump monitoring, through to network optimisation and turnkey engineering projects.

Our offices in the UK and Asia are well placed to support the modern water industry – primarily through our portable and installed pump performance monitoring products, which are manufactured in the UK and exported globally.

To deliver excellence in our optimisation projects, we aim to work with local partners who know clients’ sites and have established relationships. This leads to greater efficiency, less cost and excellent ongoing support.

*About Riventa*

We offer class leading pump efficiency measurement and pump optimisation expertise to industry. We also have a proven track record in the reduction of cost, energy and emissions, with services ranging from in-situ pump performance testing and real-time pump monitoring, through to network optimisation and turnkey engineering projects.

Our offices in the UK and Asia are well placed to support the modern water industry – primarily through our portable and installed pump performance monitoring products, which are manufactured in the UK and exported globally.

To deliver excellence in our optimisation projects, we aim to work with local partners who know clients’ sites and have established relationships. This leads to greater efficiency, less cost and excellent ongoing support.

*About Riventa*

We offer class leading pump efficiency measurement and pump optimisation expertise to industry. We also have a proven track record in the reduction of cost, energy and emissions, with services ranging from in-situ pump performance testing and real-time pump monitoring, through to network optimisation and turnkey engineering projects.

Our offices in the UK and Asia are well placed to support the modern water industry – primarily through our portable and installed pump performance monitoring products, which are manufactured in the UK and exported globally.

To deliver excellence in our optimisation projects, we aim to work with local partners who know clients’ sites and have established relationships. This leads to greater efficiency, less cost and excellent ongoing support.

*About Riventa*

We offer class leading pump efficiency measurement and pump optimisation expertise to industry. We also have a proven track record in the reduction of cost, energy and emissions, with services ranging from in-situ pump performance testing and real-time pump monitoring, through to network optimisation and turnkey engineering projects.

Our offices in the UK and Asia are well placed to support the modern water industry – primarily through our portable and installed pump performance monitoring products, which are manufactured in the UK and exported globally.

To deliver excellence in our optimisation projects, we aim to work with local partners who know clients’ sites and have established relationships. This leads to greater efficiency, less cost and excellent ongoing support.

*About Riventa*

We offer class leading pump efficiency measurement and pump optimisation expertise to industry. We also have a proven track record in the reduction of cost, energy and emissions, with services ranging from in-situ pump performance testing and real-time pump monitoring, through to network optimisation and turnkey engineering projects.

Our offices in the UK and Asia are well placed to support the modern water industry – primarily through our portable and installed pump performance monitoring products, which are manufactured in the UK and exported globally.

To deliver excellence in our optimisation projects, we aim to work with local partners who know clients’ sites and have established relationships. This leads to greater efficiency, less cost and excellent ongoing support.
On-site pump efficiency testing
When conducting a detailed site inspection, thorough pump testing provides a cost-effective means of identifying pumps and systems that have the highest return on investment potential. Our engineers would visit your site to carry out an in-situ pump test, characterizing the current condition of the pumping system and any system characteristics that may be discovered that can lead to major improvements in overall operating efficiency and pump lifecycle costs. Our technology can provide the following:

- Real-time pump performance monitoring
- Power demand monitoring
- Energy efficiency assessment
- Thermodynamic measurement ISO 9906
- Conventional measurement
- Electrical drive efficiency
- Diameter change
- Variable speed drive
- Pump scheduling
- Control loop enhancement
- Electrical drive efficiency
- Fan efficiency optimisation

Network optimisation
How we optimise networks is built on the foundation of real-time hydraulic measurement – not assumptions. From optimisation of a single service reservoir over a 24-hour period to sub-networks consisting of multiple pumping stations, storage and demand. Network Optimisation can improve pump operation whilst reducing risk to supply. Our Technology can provide the following:

- Hydraulic model construction
- Demand Prediction Models
- Multi-Objective Optimisation Algorithm
- Operational Optimisation
- Capital Decision Support / Future Planning
- Off-line or Real-time Systems
- SCADA Integration
- Security of Supply Assessment

Consultancy services
We offer a consultancy service that we tailor to meet client objectives and budget. It can include:

- Pump refurbishment
- Efficiency enhancing coating
- Pump replacement / renewal
- Efficiency enhancing coating
- Diameter change
- Pump refurbishment
- Air entrapment in the pump
- Pump ragging
- Main burst / leak
- Detect and alarm
- Pump monitoring and protection

Our services provide an information-driven approach to investment decisions, including:

- Pump refurbishment and modification
- Site services and installation
- New pumps, motors and drives
- Pump refurbishment and modification
- Tariff management
- SCADA and PLC integration
- Energy/cost minimisation
- Real-time operator guidance
- Real-time pump performance
- Fault isolation
- Monitoring

Our Technology
Our technology unlocks the full potential for our clients to meet station and network demand at least cost.

FREEFLOW, ECOFLOW, and PROFLOW are site-installed products that deliver real performance gains in a wide range of pumping applications.

ECOFLOW™
LOW-COST PUMP PERFORMANCE MANAGEMENT
ECOFLOW is the solution for medium-sized pumping stations with typical energy consumption of between 10kW and 400kW. A pump performance monitoring system that measures head, power, pump efficiency and flow rate from a site installed flow-meter in real-time.

- Suitable for both low and high head applications
- Secure pump / system information online
- Automatic reporting tools providing essential KPI’s
- Monitoring by motor we can also calculate flow rate
- Suitable for lower head applications
- Cardiac pump / system information online
- Automatic reporting tools providing essential KPI’s
- Monitoring

FREEFLOW™
LOW-COST PUMP PERFORMANCE MANAGEMENT
FREEFLOW is the solution where precision is essential, such as medium to large pumping stations with high energy consumption (400kW and above) and where demand is variable. A thermodynamic measurement system where head, power, pump efficiency and flow rate are monitored in real-time.

- Suitable for higher head applications
- Real-time operation with trending and fault logs
- Secure pump / system information online
- Automatic reporting tools providing essential KPI’s
- Monitoring

PROFLOW™
PRECISION PUMP PERFORMANCE MANAGEMENT
PROFLOW is the solution for detecting the onset of pump, motor and system failure, in real-time. It provides a service that delivers the tools for pump performance, failure and faults in the most demanding of applications. A pump performance monitoring and protection system that monitors head, power, pump efficiency and flow rate (from a site-installed flow meter) in real-time.

- The same benefits as ECOFLOW above, plus
- Detect and alarm
- Main burn / fault
- Pump rogging
- An enhancement in the pump
- Blockage / corrosion in the-main

Accuracy is at the heart of how we work
Our product technology is able to measure the efficiency and head of the pump to an impressive accuracy of up to 0.5%. By simply measuring the power consumed by the motor we can also calculate flow rate. The extremely precise measurements will enable you to measure current pump performance characteristics, identify areas for refurbishment and energy saving opportunities, as well as risks and reliability issues, such as suction problems.

- Conventional Measurement
- Thermodynamic Measurement
- Calibration Process
- Pumping System Energy Assessment

Contact us today to discuss your requirements.

FREEFLOW, ECOFLOW, and PROFLOW are site-installed products that deliver real performance gains in a wide range of pumping applications.