# Saur: Val D'Europe Nord Pumping Station Potential Savings Available via optimisation of Pumping Schedule & Refun

6%

COST

A

400

REDUCTION

0% RE

GET

600

part of



170

ALSAVINGS

**E**riventa

FI.

1200

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## **PUMP TESTING SERVICE**

## WHY TEST?

Typically 2 hours per pump



## **DELIVER CRITICAL OBJECTIVES:**

Minimise Energy Consumption Maximise Reliability Prioritise And Target Maintenance

## WHY TEST?

Typically 2 hours per pump

#### PRIMARY MEASUREMENTS

- Suction temperature (mK)
- Discharge temperature (mK)
- Suction pressure (m)
- Delivery pressure (m)
- Electrical power (kW)

#### **REAL-TIME DATA**

- Pump efficiency (%)
- Motor power (kW)
- Flow rate (MLD)
- Pump head (m)

#### **PROVEN DELIVERABLES**

- Pump refurbishment business case
- Detect pump wear & cavitation
- Oversizing & impeller trim requirements
- Measured system curve

#### **PROVEN TECHNOLOGY**

- Methodology to international standards BS EN ISO 9906 & ISO 5198
- Typical Accuracy of Efficiency ±0.5% and Flow rate ±1.0%
- All sensors calibrated to international standards
- Measurements not impacted by site factors

#### Equivalent to an on-site factory acceptance test

## KNOW WHAT'S HAPPENING IN YOUR STATIONS

Combining our products and services, our Pump Testing Service can immediately and accurately measure the real efficiency of an installed pump. It provides the same accuracy as a pump manufacturers test facility - but with the advantage of real operating conditions

## **READY TO GO IN THREE EASY STEPS:**





## **RAPID, LOW-RISK DEPLOYMENT**

Once you've selected your site, our cable-free and easy to install FREEFLOW4.0 pump monitoring system (as shown below) can be up and running in around 1 hour per pump, at low risk and with minimal disruption to existing operations.

Deployment includes the temporary installation of precision temperature and pressure measurement in both suction and discharge pipework. Measurement over the pumps operating range typically takes 1-2 hours.





## **AUTOMATED PUMP TEST SOFTWARE**

As the data is acquired using our Windows 10 pump testing software, each data point is captured and the real-time pump test point can be viewed against the OEM curves. The statistical uncertainty of each data point is also shown and a csv data log-file recorded.

The software includes an automated pump test report output which provides the user with a comprehensive summary of the condition and hydraulic performance of the pump.





## **RESULTS TO DRIVE SAVINGS**

Following deployment, we provide a comprehensive report outlining best practice recommendations, realistic payback calculations and a business case for moving forward – all backed by precision measurement and innovative analytics.

We appreciate payback often relies on the ability to implement recommendations quickly. Here, our consultants can assist with extra workload by helping to liaise with pump suppliers regarding pump specifications for example.



## **OPTIMISE YOUR UTILITY, ONE STATION AT A TIME**

### See how Saur let Pump Optimisation as a Service flow through its network, delivering outstanding results

Starting with a station pilot and scaling to 66 stations and an entire network, we achieved a less than 12-month payback for Saur, the multi-national water utility company.

Get in touch if you want to hear more about the work we implemented and how we achieved such amazing results.

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