

Hydro Nation Water Innovation Service

Exploring the Marketplace for Clearwater Controls' Pump Control and De-ragging Systems

Key market differentiators have been investigated between Clearwater Controls' pump control and de-ragging systems, DERAGGER+ and DERAGGER PRO, and other systems on the market.

Clearwater Control's signature product is the DERAGGER+, a multi-award-winning compact retro-fit device that eliminates wastewater blockages in real time. This technology is relatively new and has been installed widely in Scotland but to a much lesser extent in England and Wales.

The DERAGGER PRO is a complete station controller designed for uninterrupted operation of pumping stations and which provides comprehensive fault-finding diagnostics. Its intelligent interface provides a simple way to control equipment with no special training, and it future-proofs systems, offering redundant failure protection and will reduce overall costs.

THE CHALLENGE

Marketing intelligence support was requested to compliment the on-going product trials and product approval. This work had the objectives of understanding and documenting the current range of wastewater pumping station controllers, which represent potentially competing products. Clearwater

Controls needed the information to assist with their value proposition and to confirm clear differentiation between DERAGGER+ and DERAGGER PRO, and other systems on the market.



THE SOLUTION

A market survey was carried out to support Clearwater Control in their engagement with potential users of the DE-RAGGER+ and DERAGGER PRO technologies. The final document provided an introduction to the pumps control and de-ragging market with an overview of key features and UK water industry use and experience. The comprehensive list of features reviewed included blockage detection, auto-reverse,

insulation tests, wet well cleaning, control to fixed wet well level, surrogate flow measurement, energy monitoring, energy optimisation, pump performance monitoring, run most efficient pump, tariff management, logging of pump stats, storm detection, time to spill, auto reset/remotely reset, dry run protection, on board telemetry, modular control system and user interface.



“HNWIS is pleased to be working closely with Argent Energy. We see this success as a great example of how the innovation service can support Scottish companies within the Hydro Nation agenda”

Dr Leo Carswell, HNWIS

OTHER DEVELOPMENTS

Clearwater Controls have recently received funding from Scottish Enterprise to run a

collaborative project with WRc and a group of UK water utilities to share data on the performance and operation of the DERAGGER technology under real conditions. This project is on-going and includes WRc Approval of the DERAGGER + and PRO. Discussions are also on-going for Scottish Enterprise to support a full-network trial of DERAGGER + in Australia, in partnership with a global engineering company.

The Hydro Nation Water Innovation Service

The Hydro Nation Water Innovation Service (HNWIS), established by the Scottish Government through Scottish Enterprise and Highlands and Islands Enterprise, identifies innovative companies, particularly SMEs, and supports them along the innovation path from concept to commercialisation. The partnership, HNWIS, AECOM, WRc and UK Water Ltd is delivering a three-year programme.

Learn more: hnwis.scot

Clearwater Controls

Clearwater Control launched in 2011 as the research and development division of ID Systems (UK). They are based in Grangemouth, Scotland, and have clients across the UK, United States and Canada.

Learn more: clearwatercontrols.co.uk