



About Derceto

Derceto is the leading provider of energy management software for water utilities worldwide. Our award-winning Aquadapt software integrates with existing management systems to help utilities make operating decisions that reduce energy consumption – typically one of their highest costs after personnel. Aquadapt also contributes to improved water quality and greater consistency of operations.

By applying our smart water software, deep industry knowledge and an outstanding commitment to support, Derceto makes it happen – delivering energy savings of 10-20 percent, along with significant gains in water use efficiency and quality.

Aquadapt is a mature and field-proven solution. Since its first implementation in 1999, the software has been continuously improved, taking in the learnings and varying operational requirements of water utilities in North America, the UK, Korea and Australia.

Software development is based in Auckland, New Zealand, with sales and support offices in San Francisco, Toronto and London. The Auckland-based development and support team comprises an award-winning group of professional water industry engineers, optimization specialists and automation control professionals. The Auckland team works with customers and Derceto's people and partners based around the world to deliver a potent combination of on-the-ground consulting and support with highly responsive remote online monitoring and support.

Reducing energy costs

Aquadapt schedules pumping to occur at the cheapest possible time, taking advantage of time-of-use or real-time electricity tariffs. Aquadapt also predicts peak electrical demands and in many cases can avoid peak demand charges altogether.

Aquadapt analyzes the network and pump curves, operating pumps higher on their efficiency curves so they use less energy to move more water. This also yields significant carbon footprint reductions. ▶



“I have no problem recommending Derceto. They’ve delivered exactly what they promised. The system is reliable. Derceto staff are responsive in working with us as our network has expanded. They understand our system, get daily reports and keep a constant eye on it.”

Michael Doherty,
Network Control Manager, Unitywater, Sunshine Coast, Australia



“We’ve been really impressed with the whole Derceto team. It’s amazing to me that they could come into our business, grasp all the fundamentals, and implement such a sophisticated solution so quickly and to such a high degree of accuracy.”

Neal Spivey,
Director, Water Production Division, Gwinnett County DWR,
Atlanta, Georgia, USA.

◀ Aquadapt identifies the lowest-cost source of water within constraints and finds the lowest-cost delivery path by efficiently balancing gravity flow opportunities or identifying the shortest possible route.

Improving operational efficiency, quality and reliability

Aquadapt continuously adapts to system changes to achieve maximum efficiency, quality and reliability. Embedded hydraulic, physical and logical models, and calibrated pump curves, enable the optimum operation solution to be calculated – from the multitude of combinations of water sources, flow rates, pumps, and valve settings – while maintaining defined constraints such as number of starts, flow rate changes, pressures and turnover and storage requirements.

Aquadapt keeps the water flowing even when real-world problems such as field unit failures, SCADA data flatlines, pump start failures and other operational issues cause crises in the distribution

system. Where unusual or emergency conditions make meeting demand difficult, Aquadapt predicts the shortfall, calculating expected storage levels up to 48 hours ahead and providing operations staff with accurate predictions to allow them to manage problems before they become critical.

Future proofing the operations team

As senior operators retire or leave the business valuable operational knowledge and experience can be lost. Aquadapt, as an automated, ‘expert’ system, assists all operators to be more effective and efficient, capturing operational knowledge and providing a comprehensive training environment for new operators.

Informing strategic decision making

Negotiating energy hedging contracts and energy tariffs, moving to the real time energy market, or making significant changes to the physical network – all these carry great potential for gain,

but also significant risk. Aquadapt provides a platform to test potential scenarios, assess the value and impact of alternative outcomes, and supply critical information for negotiations and strategic decision support.



Derceto

Sustainable Water Distribution

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