



## Utilities

### Water

#### ***Irrigation Modernisation Project Goulburn Murray Water***

**Client** FutureFlow Alliance

**Location** Shepparton, Victoria, Australia

**Value** \$580,000

**Duration** 2008 - 2010

#### ***Project Overview***

The Goulburn-Murray Water Irrigation System delivers gravity fed water across Northern Victoria from Yarrawonga to Swan Hill. Due to manual operation methods, it lost up to a third of this water – estimated at 800 Gigalitres per year – and was unreliable in its delivery of water to irrigators.

The modernisation project, estimated to cost \$2 billion dollars over 5 years, aims to minimise these losses through automation of channels using radio controlled, solar powered technology to control distribution, replacement of old "Dethridge Wheel" meters with remote read and actuated meters, remediation works and channel rationalisation.

This project is being managed via FutureFlow, an alliance between Goulburn-Murray Water, Transfield Services, Sinclair Knight Merz and Comdain Constructions.

SAGE Automation was invited to form a sub-alliance with the specific intent of project managing the SCADA and Telemetry component of these works.

In March 2010, the project was recognised by the Australian Water Association Awards for Excellence, taking out the 2009 Infrastructure Project Innovation Award.



### *Project Overview*

The radio network forms a crucial backbone for the collection of system data and delivery of remote controlled signals for the control of water distribution for this region. Since March 2008 we have had a small but crucial team located at offices in Shepparton providing management and direction for the planning, integration and supervision of the new network which is the largest of its kind in the world.

In addition to the radio network, SAGE has driven the development of an integrated RTU solution for meters which has reduced the overall cost and provided the flexibility of multiple meter suppliers.

### *Capabilities Demonstrated*

- Network (water) infrastructure control and telemetry integration
- Installing remote telemetry in multiple locations
- Programming RTU and associated communication systems
- Meeting complex and unique technical requirements
- Development of integrated metering/RTUs
- Seamless interfacing with multiple stakeholders and relevant authorities
- Design and installation of low – medium voltage systems
- Project management
- Design development and design management
- Estimating, cost planning and scheduling skills
- Procurement management

***"SAGE's performance on the project has been exceptional and your expertise and professionalism invaluable"***

FutureFlow Alliance Manager – Peter Walsh

### *Project Outcomes*

- Successful delivery of all works under the FutureFlow Alliance agreement
- Project was delivered under projected budget
- Development of a communications infrastructure integral to the successful outcome of the project
- Appointment of SAGE for further works

