

Project Summary



Client:

Melbourne Water

Location:

Bangholme, Victoria, Australia

24/7 Support for the PCS7 Process Control System at ETP

Project Summary:	<p>The Eastern Treatment Plant is a major waste water treatment plant for the Melbourne Metropolitan area and as such must run continuously every day of the year. Waste is treated from raw sewage to Class A re-usable water.</p> <p>In 2007 and renewed in 2013, Synertec was awarded the service support contract to provide the support for the Siemens PCS 7 (DCS) at their Eastern Treatment Plant (ETP), providing 24/7 support and project services.</p> <p>The process at ETP is divided into three major areas; Primary, Secondary and Tertiary. Synertec has and continues to be involved in the process control development and maintenance of all 3 areas.</p> <p>Synertec and its dedicated team of 9 Engineers at Melbourne Water has embraced this opportunity and has aligned its culture and values with that of Melbourne Water.</p> <p>Synertec has an established understanding of Melbourne Water's control system requirements and the challenges that a 25,000 IO, hybrid system like theirs represents due its size and the differences in both Hardware and Software installation between the primary, secondary and tertiary plants. Synertec has collaborated with Melbourne Water to;</p> <ul style="list-style-type: none">○ Generate migration plans and strategies to standardise and avoid the risks of obsolescence in these assets
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SYNERTEC

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- Proactively implement the use of new technology to improve reliability and availability of the PCS to operations, i.e. alternative hardware architectures and computer virtualisation
- Develop and implement risk mitigation strategies
- Develop management procedures; reporting, scheduling and budgeting

Synertec is keenly aware of Melbourne Water's acute focus on identifying and managing risk. The risk equation for Melbourne Water is complex and covers the full spectrum of typical risk elements including all financial, operational, technical and safety risks, which flow into the reputational risk exposure. This risk exposure is heightened due to Melbourne Water being a statutory corporation wholly owned by the Victorian Government.

Synertec has accepted the accountability at an individual and corporate level in the delivery of a high quality service while maintaining its own OH&S standards.

For example:

- Synertec has implemented an emergency 2 tiered on call process that has never during the life of the current partnership agreement failed to deliver on minimum response times;
- Synertec has implemented hundreds of Work Orders and downloads without disruption to Melbourne Water's service delivery;
- Synertec has implemented numerous safety related processes to manage and protect staff and physical assets.

Over and above the operations and maintenance Synertec is actively involved in the upgrade and CAPEX on site, such as:

- Waste Gas Burners Upgrade
- Digester Compressor Upgrade
- Hot Water Boiler Upgrade
- Grit & Screenings Upgrade
- 84EH Upgrade
- Blowers 8 & 9 Upgrade
- Alarm Rationalisation
- 6.6kV Upgrade



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	<ul style="list-style-type: none">• Odour Control Facility Stage 2• PCS7 Version Upgrade• Aspen Historian Upgrade• As-built PCS Site Drawings• Tertiary Treatment Plant Integration• OPS Surge Vessel Control• Time Synchronisations
Technologies:	PCS7 and Aspen IP21