



Name:	Lower Wyong River to Mardi Dam Transfer Water Pumping Station No.1	Client:	Wyong Shire Council and NSW Department of Commerce
Owner:	Wyong Shire Council	Site Location:	Wyong, NSW
Value at Completion:	Approx. \$150,000	Year Completed:	2008

Project Description: The Motor Control Centre for the Pumping Station was manufactured utilising the Elsteel Techno modular, type tested switchboard system to IP54 and mounted on a custom manufactured HD Galvanised plinth.

The main bus system was rated at 2500Amps at 35kA for 3seconds.

The MCC also included 2 x 560kW rated soft starter sections c/w bypass operation, PLC Control Section and Auxiliary Starter/Distribution Sections. Also manufactured was 2 x 175kVAR PLC controlled Power Factor Correction Cubicles.

- Technical Highlights:**
- Design and CAD drawing of SLDs and Schematic Drawings
 - Design and CAD drawing of MCC GA & Layout Drawings
 - Manufacture of SCA c/w 2500A bus system & PLC control
 - Manufacture of 2 x 175kVAR Power Factor Correction Panels
 - Factory Acceptance Testing & Commissioning
 - Site installation and commissioning

PROJECT PROFILE

Personnel:	Switchboard Manager: Brett Dunning Project Designer: Paul Dent	
Special Project Achievements	The SCA was required to be installed with in a space restricted area with in the existing Pump House. The SCA was designed and manufactured to minimise the required floor space while still maintaining adequate area for the installation and cooling of the 2x 560kW soft starters.	
Quality Standards Applicable	AS/NZS 3000, AS/NZS 3439.1	
Specific OH & S Requirements	IP2X Touch Protection, Type 2 Co-ordinated Soft Starters	
Referees:	Graeme Davies Project Officer NSW Dept. Commerce Ph: 02 4350 0608	Sean Macauley Technical Officer Wyong Shire Council Ph: 02 4350 3170

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