

Yallakool Weir System

Stand Alone Solar Power System

Key Elements

- A refurbished weir & fishway system.
- Electrical switchboard and instrumentation.
- Stand alone 3kW solar power system with generator backup.
- Fully automated control system with telemetry RTU/SCADA monitoring capability.

Background

Yallakool weir controls water flow from the Stevens weir pool into the Yallakool creek. State Water intended to refurbish the existing weir which was deemed to be a safety risk for the operators and the community.

Project Scope

The existing weir is to be refurbished with an integrated fishway for environmental conservation. The site is a remote location with no accessible mains power. Therefore a stand-alone power system was also required to power the weir & fishway gates.

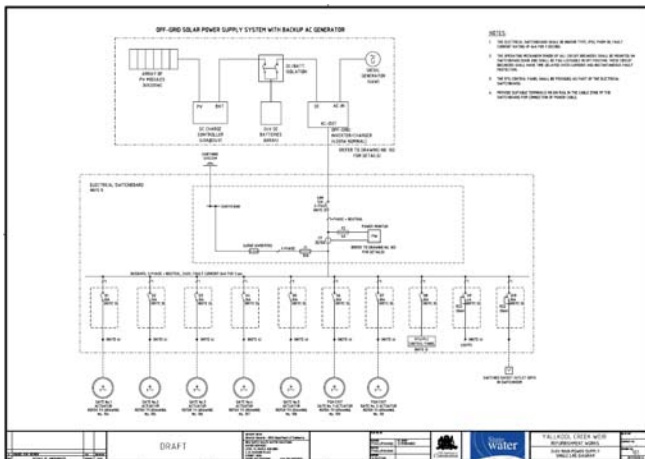
Our Role

Water Services role consisted of supplying power from a stand alone solar PV system with battery & generator backup including provisions for remote monitoring & control via Telemetry.

Water services provided detailed electrical design and documentation, for all electrical aspects of the Yallakool weir & fishway system.

Outcomes

The outcome will be a fully automated weir system that could operate independent of the mains power improving the reliability of water flow to the community.



Single Line Diagram

Location: **Deniliquin, NSW**
 Client: **State Water**
 Project Description: **Weir & Fishway System**
 Total Project Value: **Approx. \$ 2M**
 Consultancy Fees: **\$ 26,500**
 Year Completed: **To Be Completed**



Existing Weir

Water Services

Principal Engineer

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Public Works
 NSW Water Solutions