

PROJECT DATA

Terminal Storage Mini-Hydro



CLIENT	SA Water/Hydro Tasmania Joint Venture
PROJECT LOCATION	Adelaide, South Australia
DATE OF PROJECT	Commissioned October 2003
SERVICES PROVIDED	<ul style="list-style-type: none">• Feasibility study;• Preliminary Design;• Detailed Design;• Construction and Commissioning

Hydro Tasmania entered into a Joint Venture arrangement with SA Water in South Australia to develop mini-hydro projects on their water supply assets. The Terminal Storage Mini-Hydro project is the first of 8 potential projects developed under this arrangement.

The project consists of a 1.9MW six-jet vertical axis Pelton turbine utilising treated water sourced from the Murray River. This fully enclosed scheme utilises energy currently dissipated through a valve as water is transferred from the Anstey Hills Water Treatment Plant in the Adelaide Hills down to the Terminal Storage tank in Adelaide's northern suburbs.

Services provided by Hydro Tasmania Mini-Hydro Solutions to the Joint Venture include:

- *Feasibility Study* – completed a feasibility study on the Terminal Storage mini-hydro including engineering, commercial and operational optimisation studies, network connection negotiation, and assistance with preparation of the development business case.
- *Preliminary Design* – The feasibility level arrangement was developed to preliminary design level and a technical specification was prepared.
- *Detailed Design* – Mini-Hydro Solutions carried out detailed design of the civil works including drawings and specifications.
- *Construction and Commissioning* – In conjunction with Tycos Tamar, Hydro Tasmania has let subcontracts to fabricate, construct, install and commission the works. Hydro Tasmania will provide full supervision and quality control.

The project was successfully commissioned in October 2003 and is currently providing renewable energy to the local community of the northern suburbs of Adelaide.



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