

BAYSWATER FRANCIS TURBINE PROJECT

Shown below is a 900kW Francis turbine leaving our works to be shipped to Bayswater Thermal Power Station, Muswellbrook NSW, complete with all associated equipment including draft tube, interconnecting pipework, hydraulic system, and complete electrical and control system. This project is a turn-key package for the design, manufacture, installation of commissioning of all electrical and mechanical equipment for the plant. Civil work was performed by the main contractor prior to our arrival.



To the left is a view of the Bayswater Mini Hydro Station, located at the base of a cooling water outlet dam, over an existing valve outlet structure in order to minimise civil work. The turbine will be used to control the outlet flow from the dam, where the demand is within the operating range of the turbine. The HV switch cabinet can be seen in the foreground; a removable roof section is being lifted out beyond in preparation for installation of the turbine. The plant is fully automated, and is controlled from the power station control room some 10 km away.

To the right is a view of the turbine during installation, with the main inlet valve shown in the foreground. The turbine locates between the two existing sleeve valves, above the discharge canal. The unit generates electricity from energy that was previously wasted through the sleeve valves.

Installation is now fully completed, and commissioning will commence shortly.



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