



**Project Title:** Prefeasibility Cost Estimates  
20 MW Pump Turbine, Tobique Narrows Generating Station

**Client:** NB Power

## Project Description:

NB Power requested GEMTEC Limited to undertake a prefeasibility cost estimate for installation of a 20 Mw pump turbine in the existing Tobique Narrows development built in the 1950s. The work consisted of alternative layouts of the new turbine/power house complex; coffer damming requirements; and assessment on the impacts to the existing highway crossing the dam and to the existing fishway. Costs were estimated for layouts on each side of the existing dam. Cost estimates included; dewatering; intake structures; penstock; powerhouse mechanical and electrical equipment; roadway modifications; access; fishway modifications; and switchyard modifications. An allowance was also provided for costs associated with legal and regulatory approvals.

