

## Capital Cost for Wanapitei Project

Estimated Capital Cost for Low Head and Small Hydro Development (0-5 MW) (per Kilowatt of installed capacity)*	<u>Per Xeneca Proposal</u> <u>(2.8 MW)**</u>		<u>FRDA</u> <u>estimates</u>	
		<u>@ \$5,000</u>	<u>@ \$9,000</u>	
Civil	45%	6,300,000	11,340,000	7,950,000 - road - 16 km @ \$50,000/km = \$ 800,000 - at least 1 bridge = \$250,000 - construction of 3 dams = \$6,900,000
Electromechanical	35%	4,900,000	8,820,000	6,860,000 Average of \$5,000 to \$9,000 columns
Transmission	8%	1,120,000	2,016,000	4,500,000 transmission line - 20 km @ \$225,000/km
Engineering and Approvals	12%	<u>1,680,000</u>	<u>3,024,000</u>	<u>2,532,000</u> Average of \$5,000 to \$9,000 columns
Total Capital Cost		<u>14,000,000</u>	<u>25,200,000</u>	<u>21,842,000</u>

\* Breakdown of estimated capital costs based on Hatch Energy. Natural Resources Canada - Low Head Hydro Market Assessment. 2008. Volume 1 - main report - final. Tables 5.1 and 5.2

\*\* Xeneca's proposal is based on a generating station having a total installed capacity of approximately 2.8 MW

Note: The footnote to Table 5.1 states: "Actual cost estimates for individual projects must always be developed on a site-specific basis. Costs for remote sites could be significantly higher due to unavailability of skilled labour and expensive transportation of goods and materials."

**It should be noted that the Allen & Struthers, Wanapitei River site is extremely remote, and capital costs could exceed the higher estimates presented in the above calculations.**