

PROJECT DATA

Calculation of Marginal Loss Factors for Woolnorth & Musselroe Wind Farms

CLIENT	Hydro Tasmania, Power Delivery Group
PROJECT LOCATION	North West & North East, Tasmania
DATE OF PROJECT	April 2003 - May 2003
SERVICES PROVIDED	Project management, and complete economic and technical analysis.

Calculation of the MLFs for the wind farm at Woolnorth, 50km northwest of Smithton, and Musselroe 50km north-east of Derby, for installed capacities of 70 and 140MW .

Involved modeling the entire Tasmanian transmission network, major load centres, hydro generation and thermal support. The hydraulic model distinguished the modes of operation of the major hydro schemes, their annual variation in output and the correlations between schemes and weather patterns. The power output and efficiency of these schemes was co-coordinated with the proposed operation of the Basslink cable.

The probability distributions annual output weighted MLFs were calculated to reflect the variations in the operation of Hydro Tasmania schemes and the annual variations in the wind profile.



Head Office
4 Elizabeth Street
Hobart, Tasmania 7000
GPO Box 355, Hobart
Tasmania 7001, Australia
PHONE 1300 360 441
FAX +61 3 6230 5460
EMAIL
consulting@hydro.com.au
Hydro Tasmania is a business
of the Hydro-Electric Corporation
www.hydrotasmaniiconsulting.com.au