

**QUALIFICATIONS**

Master of Management
Diploma in Business Administration
Master of Engineering (Electrical)
Bachelor of Engineering (Hons) (Electrical)
Confederation of British Industry Scholar

CURRENT POSITION

Managing Director,
Direct Current Consulting

**PROFESSIONAL
MEMBERSHIPS
AND AFFILIATIONS**

Fellow of the Institution of Professional Engineers, New Zealand
Chartered Professional Engineer (New Zealand) and International Professional Engineer Registrant
Senior Member of the Institution of Electrical and Electronics Engineers, U.S.A.
Member of CIGRE, Regular Member for New Zealand/Australia, SC 14 (1988-1996)
Member CIGRE Working Groups B4.60 & B4.53

EXPERTISE

- control system design and testing
- control system replacement
- transmission capacity upgrades
- factory testing
- transformer thermal modelling
- cable and overhead line dynamic ratings
- wind-farm connections
- STATCOM specification and testing
- commissioning
- regulatory frameworks and economic principles for transmission services
- experienced in:
 - Power system frequency control
 - Network reactive power control
 - Transmission planning
 - System operation
 - Dynamic cable rating
 - Variable line rating
 - Expert evidence and expert witness

John Gleadow

AFFILIATE

Summary of competencies

A power electrical engineer and consultant with more than 30 years industry and utility experience. Previously a senior manager at a transmission utility followed by leading position at the national electricity regulator in New Zealand.

Expert in the design, specification and testing of High Voltage Transmission Systems, High Voltage Direct Current (HVDC), Power Electronic and System Protection Schemes

Detailed knowledge of the regulatory frameworks and economic principles relating to the provision of transmission services.

Review of major transmission system enhancements including both capital expenditure and economic justification.

Recent project experience

- Clayton Utz/Hydro Tasmania. Expert witness for dispute/compulsory arbitration on Basslink dynamic capability (2013).
- Transpower New Zealand Ltd. Support for P3 HVDC Project and other technology upgrade projects. Advice on transmission system planning (2012-2013).
- Origin Energy (Australia) and PNG QLD. Advice and management of feasibility studies for Purari River HVDC transmission between Papua New Guinea and Australia (2010-2012).
- Ofgem (UK). Advice on technology and performance of HVDC connections for tranche 3 off-shore wind power development (with SKM) (2012).
- Fichtner/SNEL. Advice and supervision for re-commissioning of the Inga-Kolwezi HVDC link in the Democratic Republic of Congo (2012 – 2013).
- Transend Networks (Hobart, Tasmania). Advice on Electricity Market and technical issues relating to Basslink HVDC link including testing and commissioning (2005-2006).
- BPL(NGC UK subsidiary)/Hydro Tasmania (Hobart, Tasmania). Independent review and evaluation of Basslink System Protection Scheme design (2002-2005).
- Electricity Commission of New Zealand, Director Transmission – (2004-2009). Established Grid Reliability Standards, Transmission Pricing Methodology and the Grid Investment approval. Expert witness at Environment Court hearings

Referee/s

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