



## Peter Mangan

Director, Technical Services

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Peter has demonstrated accomplishments in Transmission, Distribution and Generation system protection, earthing and dynamic analysis for power utilities, generating plants and industrial and mining sites.

He also contributes Information Management system design skills for large scale Engineering Analysis and Knowledgebase systems. Peter brings engineering and data management skills and disciplined work ethics, gained from over 30 years experience in the Electricity Supply industry, to support the technical integrity and delivery of engineering projects.

### Specialist Areas

- Protection scheme design, modelling and analysis, forced outage investigations, coordination and relay setting design and application;
- System Earthing analysis and design;
- System Dynamic modelling and analysis;
- Substation secondary system design.
- Professional Information Technology services in the areas of:
- Power system application specification, data modelling and development;
- Knowledge database system specification and development;
- Training and support for Engineering Analysis applications.

### Significant Projects

- Responsible for the protection coordination associated with the 132kV interconnection of the Sabah East Coast regional 66kV, 33kV and 11kV networks, the reinforcement of the Sabah West Coast 132kV, 66kV to 33kV transmission systems, and the 275kV interconnection of the East and West coast grids;
- Jointly responsible for the design, configuration and setting of the control and protection for the major 275kV, 330kV Queensland transmission projects involving the ABB hybrid plug and switch bay system, PASS. In particular the Blackwall, Strathmore, Loganlea substations and the 330kV NSW interstate connector.

### Qualifications, Professional Membership & Industry Involvement

- M.ITSt. - Data Management (Postgraduate), University of Queensland (2002),
- B.Eng. - Electrical Power, Queensland Institute of Technology (1983),
- B.Sc. - Computer Science, University of Queensland (2004),
- Cert. IV - Assessment and Workplace Training, NEXT Training Pty Ltd (2004)
- Member of the Institute of Engineers Australia (2004),  
Registered Professional Engineer Queensland (2005),  
Member Australian Computer Society (2005)



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*Hill Michael is a specialist electrical networks and strategic engineering firm. Focused on the application of engineering expertise in the context of organisational and project strategy, Hill Michael is a leading advisor to owners of electricity supply networks and those wishing to connect to them. Established 1987.*