

PRAHLAD TILWALLI

Principal Consultant

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Prahlad joined Hill Michael in November 2007 and has more than 30 years experience in transmission electricity utilities in the area of planning, operation, protection and substation design. He has worked in many countries including India, Bahrain, New Zealand and Australia.

He is considered by his industry peers as a specialist in Power system modeling including dynamics, strategic transmission network planning, development of grid vision, generator connection studies, due diligence studies, substation controls and protection.

Prahlad's fields of expertise provide the ability to bring practical design integration into transmission network planning, power system modeling and analysis, and training engineers in the use of power system software.

Specialist Areas

- Power System Studies: Load flow studies, fault studies, Transient stability studies and small signal studies
- Power system software development.
- Development of Control System models for PSS/E application and SIMULINK
- Generator connection studies
- Transmission Network Planning
- PSS/E training

Significant Projects

- Connection studies for connecting GUNNS co-generation plant to Tasmanian grid
- Connection studies for connecting Studland Bay wind farm to Tasmanian grid
- High level grid vision studies for Transend, Tasmania
- Due diligence of post commissioning tests on Gordon (Tasmania) generators
- Tuning of Gordon Power system stabilizer
- Conducted training on the use of Power system software PSS/E
- High level grid-vision studies for New Zealand transmission network
- 10 Yr System security forecast (SSF) studies for New Zealand
- Grid augmentation studies for New Zealand
- Manapouri (New Zealand) power station upgrade studies
- Transfer limit studies – between South Australia and Victoria
- Harmonic analysis for designing SVCs at Para and South East sub-station
- Development of power system software – Load flow, short circuit and Harmonic analysis

Qualifications, Professional Membership & Industry Involvement

- B.E (elec); M.Tech (elec)
- Member, IEEE (USA)



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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.