

PROJECT DATA

Power Engineering System Study

CLIENT

Fiji Electricity Authority

PROJECT LOCATION

Lautoka, Fiji Islands

DATE OF PROJECT

May to October 2005

SERVICES PROVIDED

- Collection and verification of data from power stations and substations for modelling & analysis;
- Development of a power flow model;
- System studies (loadflow, fault studies, reactive compensation, voltage stability, dynamic/transient studies);
- Review of dynamic characteristics of machines, governors and automatic voltage regulators for transient/dynamic studies;
- Development of a model for protection studies and system performance;
- Review of the existing SCADA system and its communication system;
- Preparation of Transmission Master Plan for FEA Grid based on existing load forecast and proposed generation developments;
- Formal structured training, and on the job training in all aspects of the assignment for the staff of FEA;
- Provision of programs and processes to assist FEA with ongoing planning, and data management.

- This study is aimed at assisting Fiji Electricity Authority (FEA) in the preparation, review and development of:
- A steady state model for power system analysis and to assist investment decisions;
- A Master Plan for the short to long-term development of the Transmission and Sub-transmission Grid,
- Review and audit of power system protection;
- Adequacy of existing SCADA system and the communication network that supports it;
- Improve FEA's capability in long-term planning of transmission and sub-transmission network, and
- Ensure that investments in power proceed at an appropriate level to supply electricity to new consumers.



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