

PROJECT DATA

Power Engineering System Study



| | |
|-------------------------|----------------------------|
| CLIENT | Fiji Electricity Authority |
| PROJECT LOCATION | Lautoka, Fiji Islands |
| DATE OF PROJECT | 14/10/2005 |

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 subtransmission network, and
- Ensure that investments in power proceed at an appropriate level to supply electricity to new consumers.



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