

Proposed Framework for setting up Bhutan Power Planning Component with respect to Load Forecast

By

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Training Workshop

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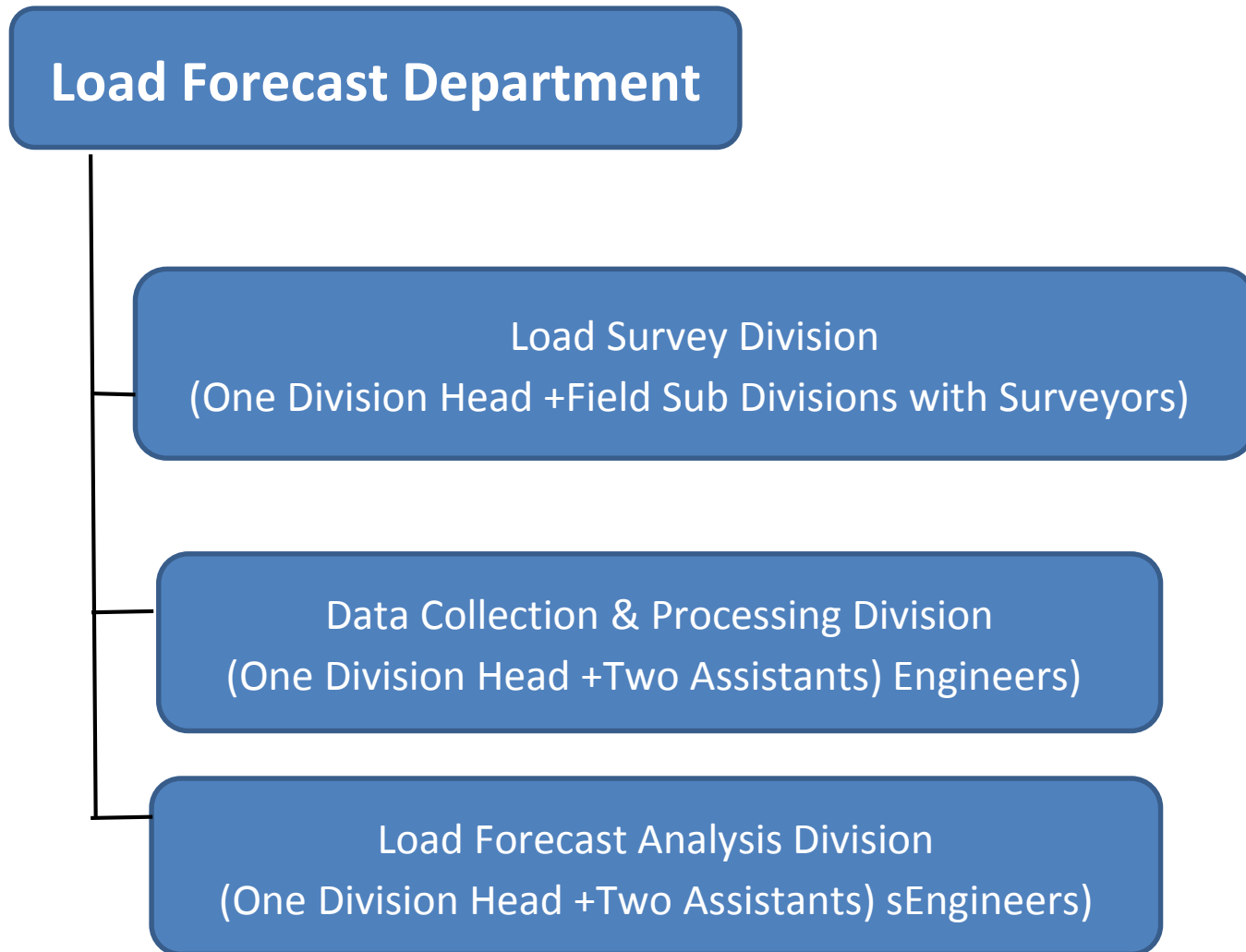
Activities Required for Load Forecast

- Bhutan requires a self sufficient Load Forecasting Department Under Power Planning Entity
- Following Activities are required to be carried out
 - Load Survey:
 - Collect Data from field formations of Bhutan Electricity Authority:
 - Historical loads recorded at substations for the last 10 years
 - Pending applications of customers
 - Gather all data/information from Developmental Organizations such as
 - Municipalities and Town Committees for new housing schemes and developmental details
 - Organizations/Departments dealing with Industry, Agriculture and Forestry to know future expansion plans

Activities Required for Load Forecast

- **Data Collection & Processing :**
 - Collect, compile and process all the data received from Load Survey
 - Collect information about growth at country level e.g. GDP, GNP, Population growth and other statistical data from Governmental Departments/Ministries
- **Load Forecast Analysis**
 - Perform Regression Analysis to develop Global/Temporal Forecast (To be used for Generation Planning)
 - Perform Time-Series analysis to develop Spatial Forecast (To be used for Transmission/Distribution Planning)

Institutional Structure



Institutional and Technical Capacity building

- There are different approaches and software available for proper load Forecasting.
- Main aspects of load forecast are
 - Global or Temporal Forecast (country level)
 - Spatial Forecast (specific to local areas i.e. provinces, cities, main load centers etc.)
- There are software using econometric models, regression techniques and end-use approach.
- Eviews is one such software.

Conclusion

- A dedicated team of experts should be there in BEA, handling the Planning activities to perform the task of load forecasting on regular basis.
- Their capacity building has to be planned through workshops and hands-on-trainings.
- They should be placed under the proposed structure in this presentation



***Thank You
For Your Attention***

