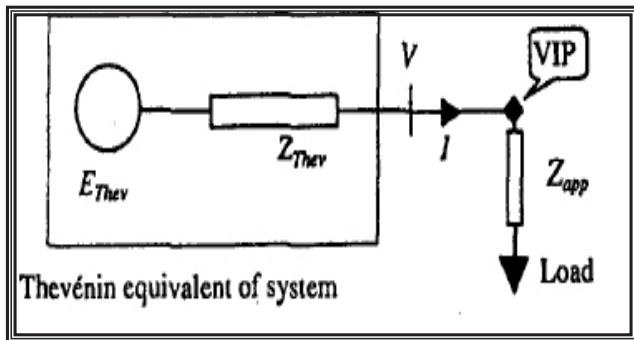


R&D Fund Project

Study on The Application of Voltage Instability Predictor for Central Region of The National Grid



VIP concept

Project Overview

A project was conceived to study the feasibility of utilizing PMUs (Phasor Measurement Units), specifically the application of VIP (Voltage Instability Predictor) for early warning against regional voltage instability.

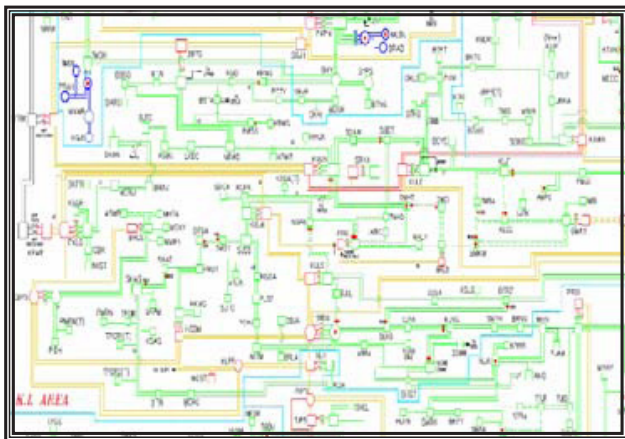
A specific study was done for the Central Region of TNB transmission system to identify the best placement of the VIPs.

Deliverables

- Identification of critical buses where danger to voltage collapse is most inherent
- Determining contingencies that may cause serious voltage instability
- Proposal of best placement of VIP-based PMU in Central Region

Benefits

- An introduction to TNB of a particular application of PMU for voltage instability monitoring.
- The methodology proposed in this project can be duplicated and used for proposal of placement of VIP in other regions.
- Exposure to the use of DSA Powertools' suite of software in particular PSAT and VSAT, which may enable its further use for other relevant projects.



Proposed Location Of VIP