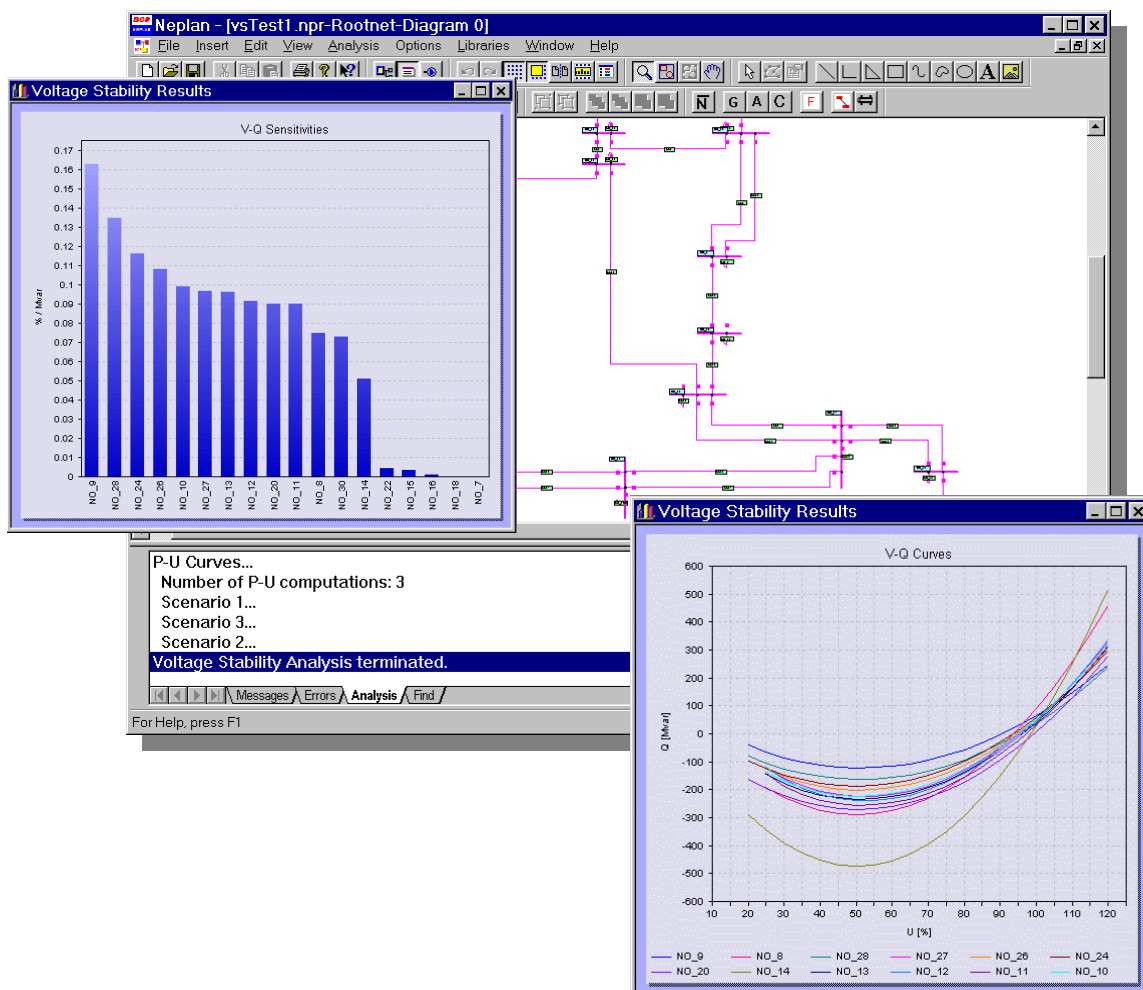


As an integral part of NEPLAN software, the Voltage Stability module provides four approaches for static voltage stability analysis of power systems: **V-Q curves**, **P-V curves**, **V-Q sensitivity analysis** and **Q-V eigenvalue analysis (modal analysis)**. This module allows examination of a wide range of system conditions. It is an ideal tool to provide much insight into the nature of voltage stability problems.

## Applications

- Identification of weak / not controllable / unstable areas
- Identification of weak and heavily loaded links
- Proper distribution of reactive reserves in order to maintain an adequate voltage stability margin
- Voltage sensitivity information
- Degree of voltage stability
- Most effective measures in improving voltage stability



## Main Features

- Automatic calculation of P-V curves, V-Q curves, dV/dQ self-sensitivities, dV/dQ mutual sensitivities, eigenvalues, eigenvectors, bus participation factors, branch participation factors and generator participation factors.
- Result tables: results are presented in clear form and can be exported by Copy-Paste-methods to external programs (e.g. MS-Excel).
- Graphical results: results can be visualized by the fully integrated graphical results manager.
- Export files: results are stored in text files for advanced data export.
- Charts can be easily printed and exported to external programs (e.g. MS-Word) by clipboard functions. A variety of chart options is available.
- Input: standard load flow input data

