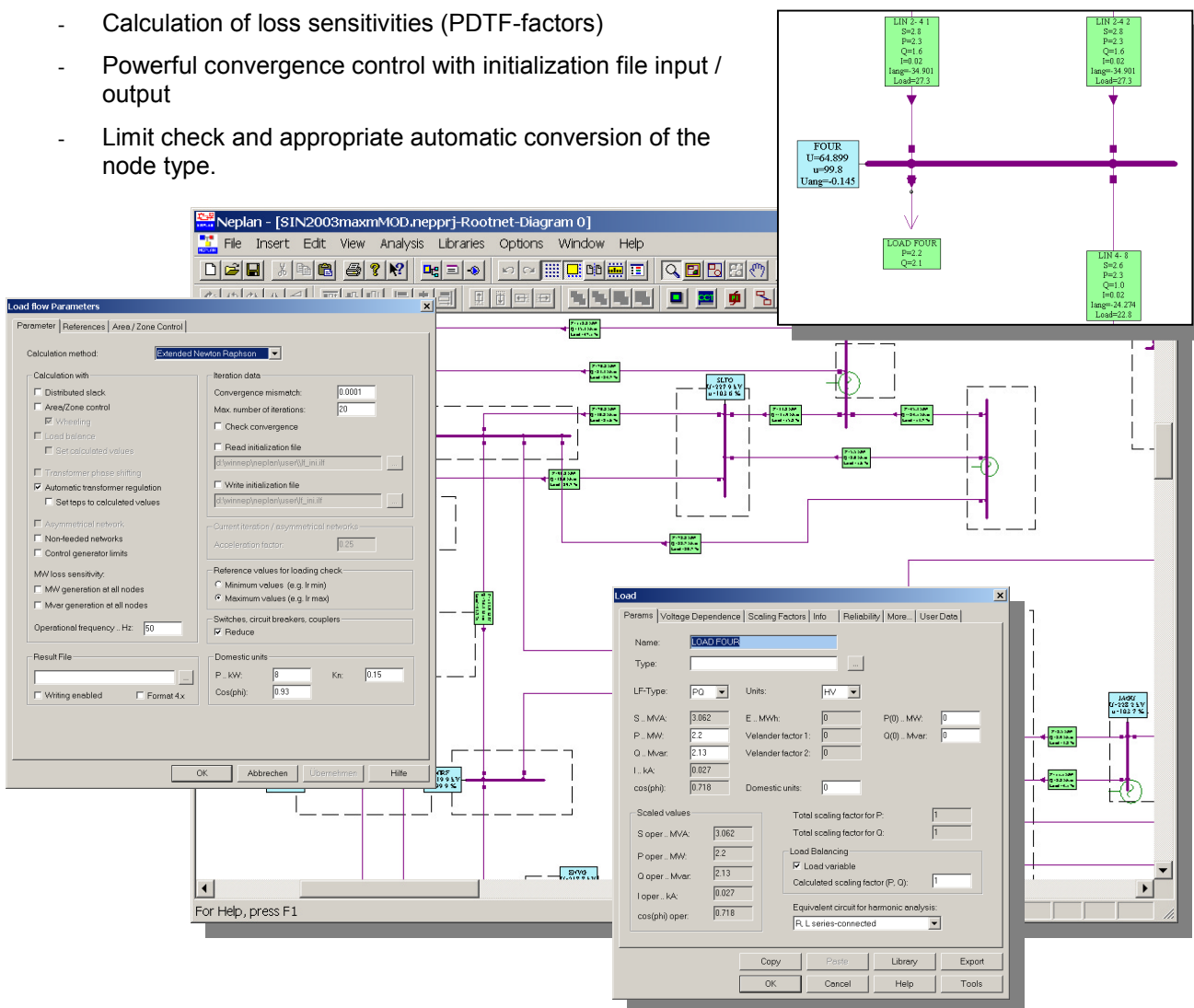


General Characteristics

- Computation methods: Current Iteration, Newton Raphson, Extended Newton Raphson, Voltage Drop (per-phase), DC load flow
- 3-, 2- and 1-phase AC and DC systems for meshed, looped and radial networks from HV to LV
- Disperse generation models (wind power, photo voltaic, small hydro, geothermic, etc.)
- User-defined modeling with NEPLAN® C/C++ API.
- Voltage and flow control with phase-shifting transformers.
- HVDC, PWM and FACTS devices, like SVC, STATCOM, TCSC, UPFC
- Node types: slack, PQ, PV, PC, SC, PI, IC with intuitive assignment. More than one slack node possible.
- Power interchange between area / zones (area interchange control) and distributed slack node
- Predefined and user defined scaling factors for fast load and generation variations
- Measurement data import and load balancing
- Calculation of loss sensitivities (PDTF-factors)
- Powerful convergence control with initialization file input / output
- Limit check and appropriate automatic conversion of the node type.



Load Flow Analysis

Application: Transmission – Distribution – Industrial - Generation



Results

- Automatic display of results.
- 'Move' and 'Delete' function for result boxes.
- Self-defined result output: the user can select items, units, font, precision, placement.
- Overloaded elements or nodes with voltages outside predefined limits are highlighted.
- Line thickness corresponds to element loading.
- Results can be saved in a text file (ASCII).
- Table output: for the whole network, individually for each area / zone. Listing of power flows between area/zones, overloaded elements, sorting function, selective output.
- Table interface with MS-Excel.

