

Integrated Power System Analysis Software

Generation·Transmission·Distribution·Industrial

PowerFactory is the preferred tool for solving problems related to distribution-, transmission- or industrial power systems. It is easy to use, fully Windows compatible and combines reliable and flexible system modeling capabilities with state-of-the-art algorithms and a unique database concept. Besides the stand-alone functionality, the PowerFactory engine integrates smoothly into any GIS, DMS or EMS supporting open system standards.

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PowerFactory

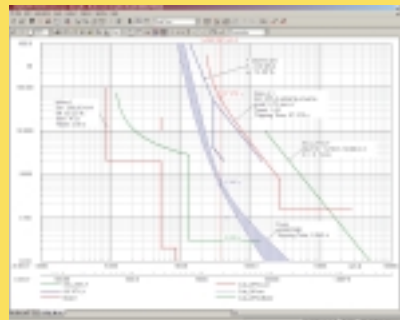
Power System Planning,
Analysis and Optimization
for Windows

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Power Factory Software

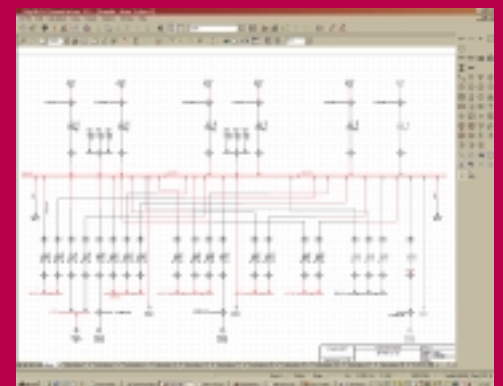
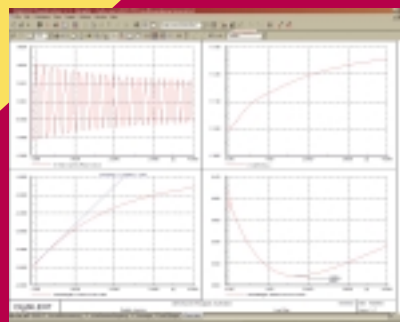
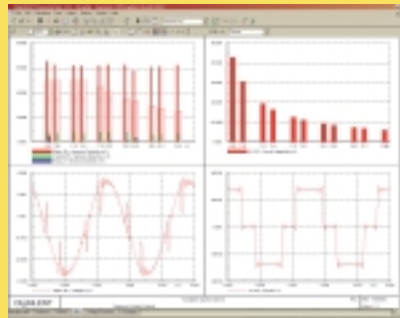
User Interface/Data Management

- Single database concept
- Multi-user database server
- Incremental data storage (variant management)
- Project and case administration
- Fully integrated graphical editor
- Comprehensive input dialogue boxes
- Spreadsheets for input and output
- MS-office compatibility
- Built-in automation interface (DPL)
- ODBC driver
- Interfaces to GIS and SCADA systems



Power System Analysis Functions

- Load Flow
- Daily/weekly/yearly load profiling
- Active and reactive power dispatch
- State estimation
- Short circuits according to IEC 909, VDE 102/103, ANSI C37
- Short circuits with complete superposition
- Multiple faults analysis
- Open point optimization
- Optimal capacitor placement
- Overcurrent and distance protection
- Harmonic load flow, frequency scan
- Filter sizing
- Ripple control systems
- EMT simulation
- Stability (transient and dynamic)
- Small signal analysis (eigenvalues)
- Voltage stability
- Parameter identification
- Motor starting
- Reliability
- Cable sizing



PowerFactory Modeling:

.... any type of three-, two- and single phase AC network, DC systems, synchronous machines, induction machines, doubly fed induction machines, loads (static/dynamic, with profiles, load diversity, unbalanced loads etc.), shunt and filter elements, cables, overhead-lines, line couplings, two- and three winding transformers, series reactors, series capacitors (incl. MOV protection), various types of AC/DC converters, FACTS (UPFC, STATCOM, TCSC, etc.), voltage and current sources, extensive fuse and relay library, IEEE model library, user defined models