Power Systems Consulting
Well-prepared for success
NEPLAN® is the number one calculation and documentation system for power, gas, water and district-heat networks. The outstanding experience of our network engineers guarantees competent support.

NEPLAN® is our advanced planning, information and documentation system which we use for analyzing and computing power, gas, water and district-heat networks. The main benefits are the system's general applicability (suitable for all voltage levels, all network configurations, all major standards), its easy handling features, and the extensive import/export functions. Thanks to its modular design, NEPLAN® can be applied to any practical network engineering task:

- Short-circuit current calculation
- Load flow calculation
- Reliability analysis
- Stability analysis
- Dynamic motor startup
- Harmonics analysis
- Protection system design and selectivity analysis
- Cable dimensioning

Additional modules can be used for performing cost-benefit calculations (net present value analysis) and optimizing the distribution systems as well as the maintenance and replacement strategies (NEPLAN®-Maintenance). Interfaces with GIS, NIS and other systems provide for problem-free embedding of the system into your company’s existing IT environment.

The modules intended for pipe system calculations render NEPLAN® an ideal engineering tool for any multi-service enterprise.

CALPOS®-Main is an independent, Web-based tool for condition assessment and the development of efficient maintenance strategies for electrical high-voltage and medium-voltage equipment and installations, local substations, overhead lines, and cables. Adapting it for pipe systems is no problem.
Network analysis, network calculation, network optimization: Draw on our long-standing experience and the in-depth knowledge of our experts.

Whether the job is to perform basic engineering, extension engineering or network restructuring, or to integrate distributed power generation facilities - any modification of an industrial or public supply network should be preceded by diligent planning. We plan electrical systems for customers worldwide, assuring that the networks will be economic and reliable as to their operation and maintenance requirements. Our core competencies include:

- Analyzing, planning and technically and economically optimizing electrical transmission, distribution and industrial networks
- Reliability analyses and calculations
- Stability studies for transmission and industrial networks
- Power quality studies
- Developing power system protection concepts, including the protection settings
- Integrating power plants, wind farms, off-shore, and onshore, and photovoltaic application systems, as well as other distributed power generation facilities
- Feasibility studies on the integration of HVDC (high-voltage direct-current transmission) systems and FACTS (flexible AC transmission system) modules
- Overvoltage calculations and overvoltage protection measures
- Grounding calculations
NEPLAN®-Consulting provides for a reliable support partnership which translates into maximized customer benefit. It will give you the best possible assistance in a regulated market environment - You can count on us!

The cost pressure on all forms of electrical power supply is rising in the deregulated markets worldwide. Operators of public supply networks are more than ever being forced to reassess their conventional network concepts, engineering methods and procedures. Cost-efficiency has become extremely important in network engineering. This also applies to industrial networks.

In addition to the network engineering standard tasks which you can perform independently with NEPLAN®, solutions to new issues might require additional staff capacities or special planning expertise. We are therefore offering our NEPLAN® Consulting services where our experts team up with your staff in order to develop technically and economically optimized solutions. And, there is more. The NEPLAN® Consulting service package can be customized to meet any specific needs:

- Software supplies and maintenance
- Interface adaptation and software integration
- Professional support for network data input
- Training by experienced systems design engineers
- Network calculation, analysis and optimization
- Consulting and transfer of know-how
Knowing exactly where to act
Asset Management Solutions

Well-founded asset condition assessment and concrete recommendations for action - we advise you with the experience and know-how of a globally operating technology group.

More and more of the electrical equipment installed in industrial or in public power supply systems, is reaching the end of its technical and economical service life. In addition, competition and cost pressure superimpose with the purely technical aspects of maintenance. An efficient asset management is becoming increasingly important - and the best combined and coordinated with the network planning. For this we offer to you:

- Condition assessment of equipment and installations
- Technical and economical ranking based on condition and importance (RCM method)
- Development of efficient maintenance and re-placement strategies
- Simulations for long-term asset strategy planning
- Budget planning support
- Decision supporting software tools NEPLAN®-Maintenance or CALPOS®-Main
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