

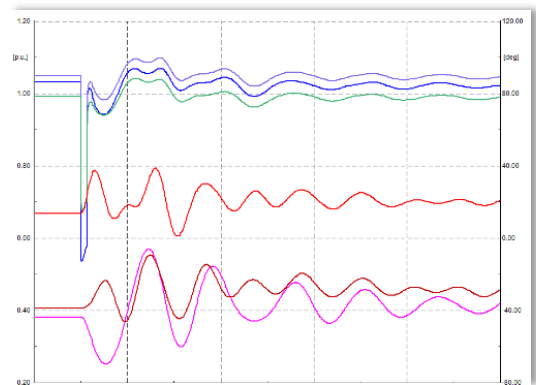
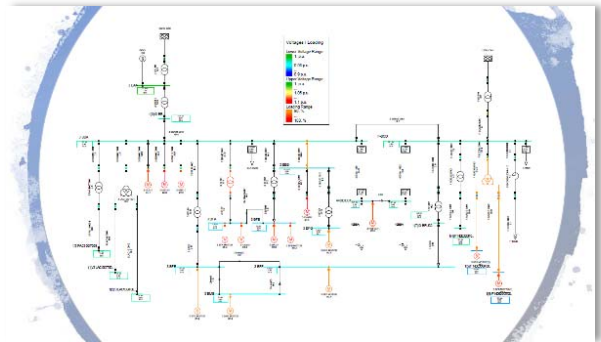
PowerFactory Page

We have great experience in performing power system simulations using the industry's leading software to obtain reliable results and to offer flexible solutions upon our customers' requirements.

PowerFactory is an advanced and powerful calculation tool developed by DigSILENT for power systems analysis, ranging from transmission networks to renewable energy applications such as Wind Power. Furthermore, the software is updated regularly, and we are always up to date with the latest editions of PowerFactory. It is widely recognized in Europe and our competent simulation department is equipped with extensive knowledge and experience within the software for carrying out the relevant system calculations.

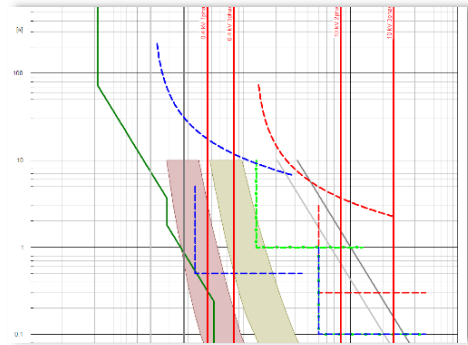
DanGrid provide various calculation services using PowerFactory which include:

- Electrical design and verification
We can perform calculations to find the optimal choice of components and ratings and to verify the suitability under all project conditions.
- Steady-state analysis
This type of calculation is done to analyze the system under steady state conditions.
 - Load flow analysis and loss calculations
 - Thermal effect analysis
 - Short circuit calculations
- Power quality studies
We can perform studies on the quality of the power supply of a system in relations to electromagnetic compatibility (EMC).
 - Harmonics and THD
 - Inter-harmonic voltages
 - Flicker
- Dynamic/RMS simulations
The simulations are done to assess and verify the electromechanical transient performance of the system during contingencies such as loss of generation or short-circuit fault.
 - Stability studies



- Grid compliance (GC) studies
GC studies are necessary to show that the plant is compliant with regards to the grid code requirements established by the system operators.
 - Reactive power capability
 - FRT capability
 - Voltage and frequency response
 - Power quality assessment

- Protection and selectivity studies
We perform protection verification for networks and power plants with regards to functionality, reliability and selectivity.
 - Overcurrent protection
 - Differential protection
 - Distance protection
 - Relay settings
 - CT/VT dimensioning



Any further questions and inquiries do not hesitate to contact us.