

Network Calculation NEPLAN

Elektrizitätswerk Schwyz AG



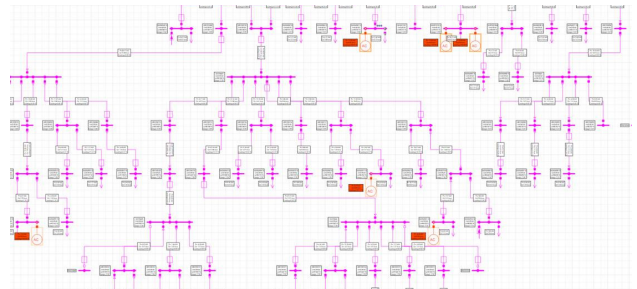
Challenge

To assess the effects of power plants (such as solar panels or wind farms), the „Technical Rule for the Assessment of System Perturbations (DACHCZ)“ applies in Switzerland. This states that when a new power plant is connected, the resulting voltage rise must not exceed specified limits. The voltage rise for an entire low-voltage grid can be calculated and checked by means of a load flow simulation.



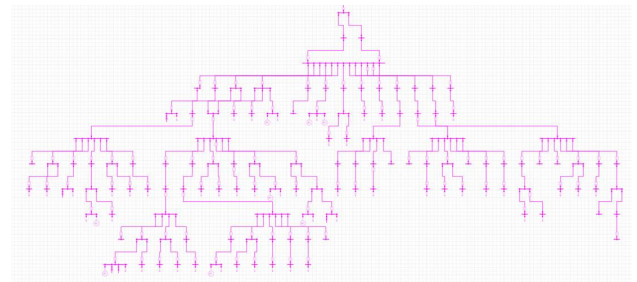
Solution

For correct simulations and calculations, the NEPLAN calculation package needs the entire network and its associated data. This can be achieved easily via SEPM's data translation interface. The interface has been configured so that existing attribute values in the GIS, such as transformer tap positions, limiting currents or fuse values are transferred.



Benefits

The low voltage grid no longer has to be painstakingly drawn by hand. A network simulation in NEPLAN provides confidence in the network's specs and shows whether network reinforcements are necessary ... Saving on costs.



Testimonial

„The grid network information no longer needs to be entered manually into NEPLAN. The data is stored centrally in our GIS database and then transferred using the SEPM NEPLAN interface. The days of unnecessarily repetitive and error-prone database maintenance are long gone.“

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