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Services for grid connection application processes

VPC sees itself as an engineering services provider covering all topics and issues related to the analysis and organizational processing of grid connection applications for power generating facilities.

We will be pleased to provide you with customized planning services for your upcoming tasks:

- Power system analyses and determination of the appropriate grid tie-in point for connection applications on the LV, MV and HV voltage levels
- Determination of an appropriate grid tie-in point on the basis of maps and network data available in a network information system (such as G!NIUS)
- Compilation of network models taking into account planned customer projects
- Power system analysis in DIgSILENT Power Factory and determination of the appropriate grid tie-in point for generating facilities
- Documentation of workflow processing in customer's filing and workflow system
- Ad-hoc calculations and assistance in customer's day-to-day business
- Support and assistance in connection planning for station installation and commissioning of generation plants
- Team of experienced engineers in the field of power system analysis, response time of 72h, remote processing on customer's systems
- Power quality analyses according to VDE-AR-N 4105 / 4110 / 4120: 2018-11

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Grid connection application processes

Selected References

OSHEE
- Power system modeling of the 110kV/10kV voltage levels
- Load flow, short circuit current calculation
- Development of grid expansion scenarios, including techno-economic analysis
- Evaluation of neutral point treatment and implementation proposals

EVE Netz GmbH
- Grid compatibility checking
- Creation of MV network and protection concepts
- Review of grid connection applications, verification calculations
- Stocktaking of information at grid connection points
- Determination of protection settings
- Load flow calculations for defined scenarios

WEMAG Netz GmbH
- Stocktaking of power systems
- Evaluation of load development
- Development of feed-in scenarios
- Load flow calculations for defined scenarios
- Evaluation of existing network and processing of grid connection applications
- Development of future grid 2030

ARGE CCA New Energy Cluster SWC
- Engineering services for the connection of 5 CHP modules with 10.5 MW each
- Load flow and short-circuit current calculation for entire plant up to grid connection point
- Design of protection system for the entire plant
- Operating scenarios

Vattenfall Europe Wärme CCGT plant Lichterfelde
- Load flow and short circuit current calculation for entire plant up to grid connection point

Suntrace GmbH for Ethiopia and Uzbekistan
- IFC Program Scaling Solar
- Implementation of grid-connected solar PV systems
- Grid integration studies
- Analysis of impact on the power grid

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