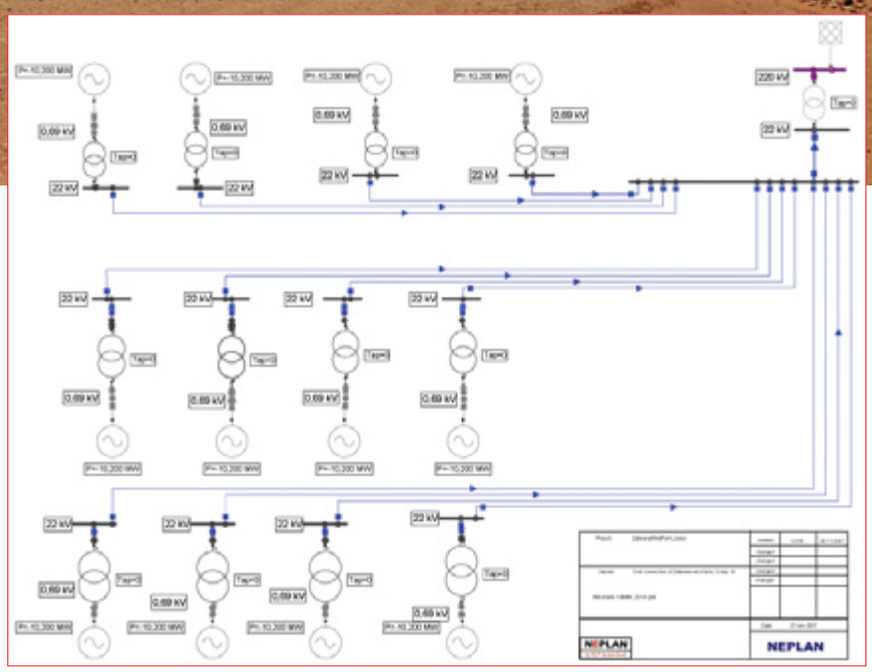
Grid analyses for wind power integration



COWI has comprehensive experience in planning and design of electrical systems for offshore and onshore wind power applications. We take pride in using the latest developed software tools, enabling us to offer tailored results being in compliance with the newest international standards and design recommendations. This ensures security of supply and stable power system operation.

Consequently, our specialists provide adequate design services fulfilling the customer's particular requirements and specific grid codes for integration of wind power in regional transmission and distribution grids. Our specialists have significant knowledge in using worldwide recognized engineering tools such as NEPLAN and CYME, today being adopted by major electric utilities and contractors.

COWI offers complete studies covering all phases ranging from planning to basic and detailed design for grid connection of wind farms, optimisation of network upgrading and studies on wind power impact on power networks. We find it natural that the customer participates in the process and encourage his close co-operation.

COWI also offers training seminars in the use of the engineering tools for wind power applications at the customer or at our head office.

Planning
Feasibility study
Basic design
Detailed design

Load flow analyses
Optimal cable sizing
Reactive power control
Short-circuit analyses
Relay coordination studies
Graphic data and tabular presentation
Power quality analyses

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