

Information about point C of the Project Assignment

The voltage stability issue depends on the different factors such as installed relay protections but also the system modeling issues. In the case of the project assignment it is enough to have a simplified approach and only consider the voltage limits (high and low) of the connection points when calculating available active power capacity for the worst case scenario.

Fig. 1 and 2 show different situations in the grid and how the maximum available active power capacity (P_{max}) should be chosen.

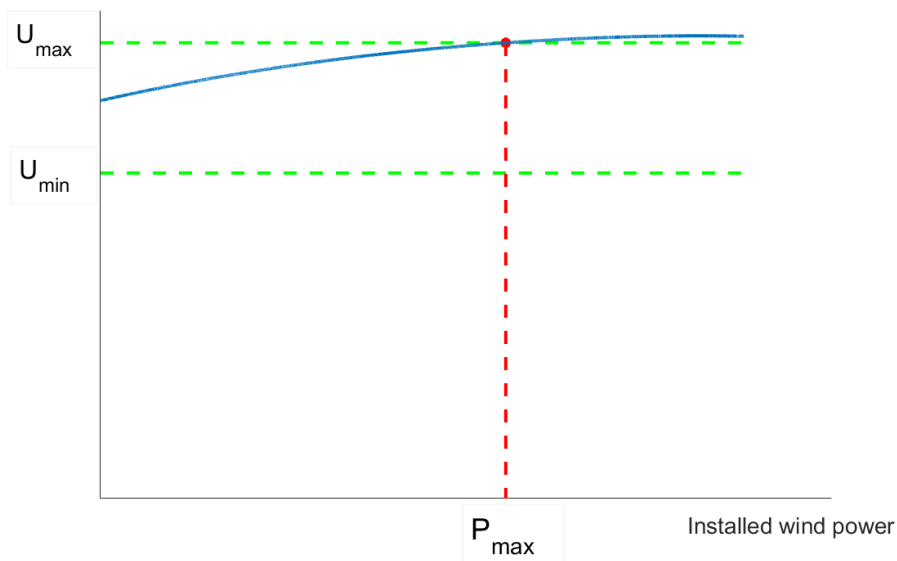


Figure 1 High voltage limit violation

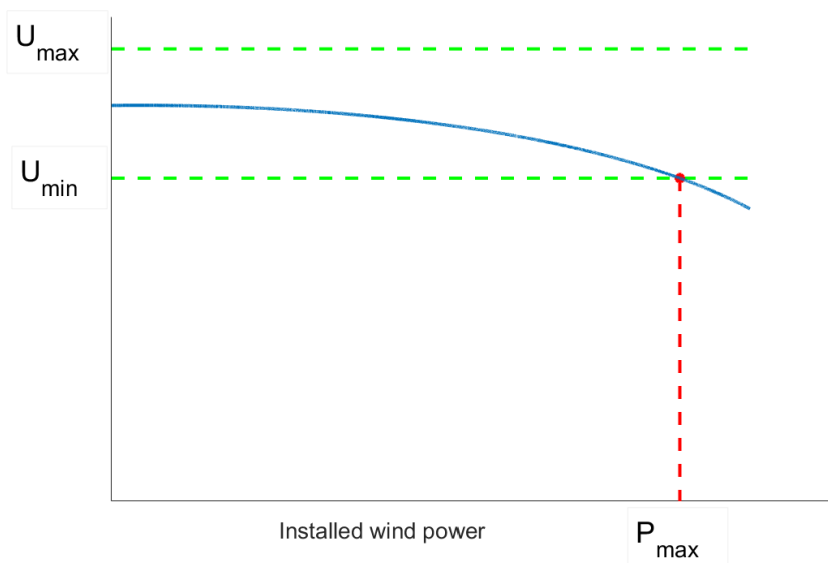


Figure 2 Low voltage limit violation