The paper discusses the effect of wind shear and veer as well as atmospheric stability on the power production in the partial load region of wind turbines. The analysis is based on real measurement data. The authors use different methods to describe the wind field situation across the turbine swept area. The description of the used data and data handling e.g. filtering is very detailed. It is interesting to see, that the usable data drops down to 30% of the available data and also reflects the difficulties to perform such investigations based on real data where the inflow conditions can not be controlled and repeated, respectively.

The paper is well written and easy to read even though there are many aspects touched in this paper. The results are nicely summarized and put into context with other findings. I have no suggestions on how this paper could be improved, good work.