

# Wind farm controllers with grid support

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## Abstract

This paper describes wind farm controllers and wind turbine controllers for different types of wind farms. The overall aim of the wind farm controllers is to enable the wind farms to contribute to the control of voltage and frequency in the power system. Still, the controllers should meet the conventional aims of wind turbine controllers, which are first of all to maximise the production and to minimize the structural loads and lifetime consumption on the wind turbine components.

**Keywords:** wind farms, power system, modeling.