

## **(1) Basic Overview of Wind Turbine Models (E. Tröster, Energynautics)**

In this tutorial the basic principles of wind turbine models used for grid integration studies will be shown. Different components of wind turbines, such as generator, gearbox, and converter, for instance, will be discussed with respect to modeling issues. Depending on the respective wind turbine technology, these components will be combined and equipped with different controllers, to control speed, torque, and power.