

# Basic Track

**Key Audience for Basic Track: Beginners in the area of wind turbine modeling.**

## Session A

### **(1) Overview of Wind Turbine Technology (E. Tröster & T. Ackermann, Energynautics)**

General overview of basic wind turbine principles (Betz law etc.), wind turbine components and status of technology.

The different drive train systems used in modern wind turbines will be discussed in detail. The main parts of the drive train are the gearbox, the generator, and the converter. The focus will be put on important properties related to wind turbines, such as costs, efficiency, controllability, and the ability to comply with grid codes.