

The Electric Drive Technology research group is part of the Institute of Energy and Automation Technology at the Berlin University of Technology (TU Berlin). With its about 15 member staff the group is responsible for the electric drives and electric machines education at TU Berlin, and it carries out government and industry funded research projects. The area of expertise includes electric machines and drive systems, fuel cell and hybrid electric vehicles, electric rail traction, and innovative energy systems.

Key Research Fields & Competence Areas:

- **Electric Vehicles**
 - low idle loss drives
 - system design
- **Automotive Auxiliary Drives**
 - Actuators for automotive applications
- **High Power Drives**
 - wind energy systems
 - medium voltage drives
- **Energy Storage & Power quality**
 - storage systems for energy and vehicles
 - grid harmonic analysis

Institute Highlights:

- **Drive Lab**
 - automated drive test bench 60 kW, 2300 - 6500 rpm
 - 250 kVA input field
- **Co-Simulation**
 - coupled FEM and time domain simulation of drive systems
- **Rapid Prototyping**
 - Matlab/Simulink/DSPACE System
- **Workshop**
 - prototype manufacturing facilities for machines and drives

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