

The Institute has a long-standing tradition of research into electric and electromechanical energy converters, power electronics, and the integration of these components into systems, including interactions between individual components. The competence of the institute was complemented and extended in April 2010, and new, modern research and teaching laboratories were designed, when Prof. Muetze, who had been working previously in Germany, the US, and the UK, became head of the institute.

Key Research Fields & Competence Areas:

- Electromechanical energy converters
- Solid-state power converters
- Design of power-electronics based systems including interactions between system components
- Modelling and analysis
- Development of prototypes and experimental verification in the institute's own laboratory

Institute Highlights:

- Electric hybridization of special purpose vehicles
- 1 MHz AC-AC with ultra-low coupling capacitance
- Low-cost electric drives for consumer applications
- New, modern research and teaching laboratory (e.g. capabilities up to 500 kVA, 690 V systems)



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