

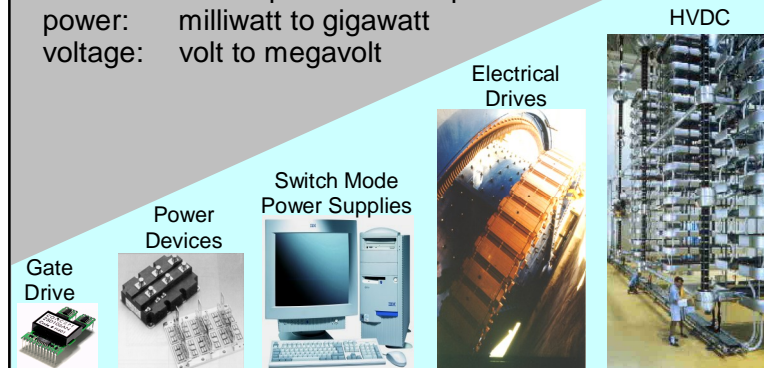
In order to coordinate their research and education in power electronics, several chairs of the department of Electrical, Electronic and Communications Engineering of the Friedrich-Alexander University Erlangen-Nuremberg founded the Center for Power Electronics in February 2005. The Center covers the wide range of competences needed for research and development of future power electronic systems, e.g. electrical drives, consumer electronics, electrical power transmission and distribution, automotive and medical applications.

Key Research Fields & Competence Areas:

- ∅ Optimisation of Switch Mode Power Supplies
- ∅ Calculation/Simulation of Electrical Power Systems with FACTS or other Converters
- ∅ New Converter Topologies for Electrical Drives, Use of new SiC-Semiconductor Devices
- ∅ Power Semiconductor Technology, Devices on Si and SiC
- ∅ Discrete and integrated Power Semiconductor Devices
- ∅ Design of Inductive Components, EMC

Institute Highlights:

from semiconductor devices to applications
current: milliampere to kiloampere
power: milliwatt to gigawatt
voltage: volt to megavolt



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