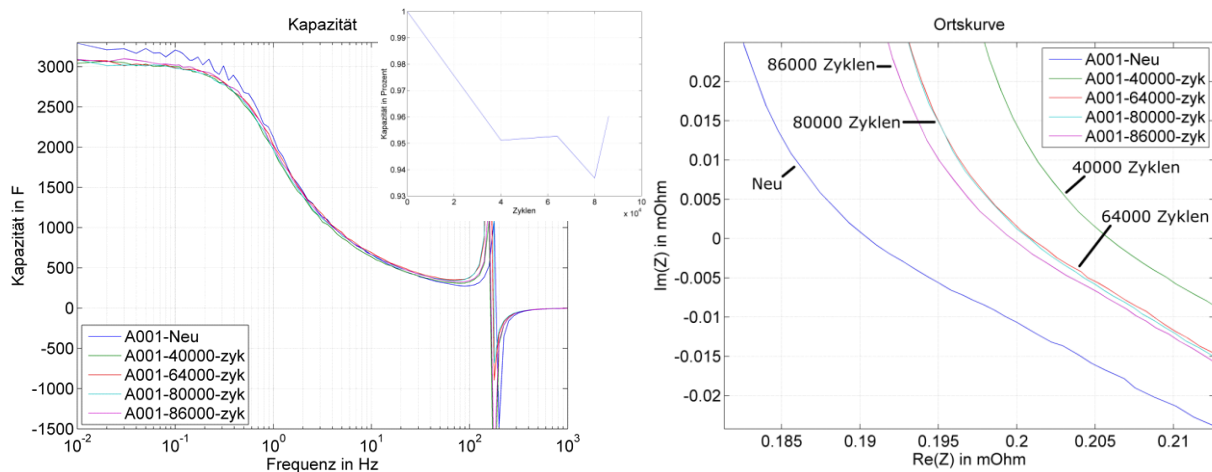


Reliability analysis and lifetime estimation of energy storage systems with converters (finished May 2013)

Subproject 5 of ESF-funded junior research group “Intelligent Decentral Energy storage systems” (<http://www.fg-ide.tu-chemnitz.de/>)



- Project partners:
6 chairs of Chemnitz University of Technology from 3 faculties: Electrical Engineering / Information Technology, Mechanical Engineering and Natural Science (Physics)
- Contents:
 - 1) Investigations on reliability and lifetime of double layer capacitors (supercaps, ultracaps) as short-term energy storage device
 - 2) Reliability analysis and lifetime estimation of converters with discrete power semiconductors based on thermo mechanical simulations



Characterization of supercaps by impedance spectroscopy at different number of load cycles