



CHAIR OF ELECTROMAGNETIC COMPATIBILITY

Power Quality Measurement with smart meters

Background and problem: Smart Meters are increasing measuring devices for power consumption measurements in households, public buildings and industries. To know exactly the power flow of every consumer in a distribution grid, gives the chance to compute the state of the grid. Voltage and Currents have a nominal frequency of 50 Hz/ 60 Hz in Power Grids. Power Quality phenomena such as harmonics are often in a higher frequency level. To compute these phenomena a higher precision of measurement devices is necessary.

Task: The task of this project is to give information about the functional principle of smart meter, the method of power measuring and its accuracy. The aim is to give a statement about the possibility of calculating power quality phenomena.

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◀ Vorherige Meldung

Nächste Meldung ▶