**Link:** <https://solar-power-tech.com/e-posters/sfs_eposter_09/>

**Abstract**

The efficiency of PEC cells advanced considerably during the last years, but most research cells still have very small electrode areas. For a future application of the technology it is important to investigate larger cells [1, 2]. This requires suitable setups for measurement, especially large artificial light sources.

In our poster we present a test platform for large PEC cells with active areas of up to 16·16 cm2. We give examples of its application using an LED solar simulator and discuss measurement possibilities [3]. Special attention is payed to the light homogeneity and to correction algorithms for IPCE determination.