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Large-scale Solar Power Plant Development and Engineering

Example PV projects in Iran and Dubai

Dr. Höller is a professor of photovoltaics at the University of Applied Science Upper Austria since 2013. His research is mainly focused on the optimization of the engineering and operation of large-scale PV power plants as well as solar forecasting. He performed several feasibility studies for large-scale PV power plants (e.g. a 1000 MW PV/CSP solar park project in Dubai) and was the project manager for a 50 MW concentrating solar power (CSP) project development in Turkey as well as for a 13 MW PV project in Romania. Recently, he finished the development of a 10 MW single-axis tracking PV power plant in the desert of central Iran, which has been constructed in 2018 and is operational since about 3 months.
In this presentation Dr. Höller will give an overview of the development and engineering processes as well as recent developments of large-scale solar power plants, such as AC/DC optimization, tracking optimization, operation & maintenance strategies, etc.
The focus will be on the desert regions of northern Africa and the Middle East, where the solar resource is particularly high and offers a large potential for the region and beyond.