

Turning Free Sunlight into Bankable Power: Quality Assurance for CSP Plants

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Brought to you by the Heliostat Consortium Resource, Training, and Education (RTE) topic area

BIO

Dr. Klaus Pottler holds a degree in Physics and a Ph.D. from the University of Würzburg, Germany. He has more than 25 years of experience in concentrating solar technologies, including collector design, testing, modeling, qualification, performance optimization, and technical consulting. In 2002, he joined the German Aerospace Center, where he worked on the qualification of concentrating solar thermal systems at the Plataforma Solar de Almería in Spain. Since 2007, he has served as Managing Director of CSP Services, leading scientific and commercial projects worldwide with teams in Germany and Spain. Klaus has authored or co-authored more than 50 solar energy publications and, together with CSP Services, has received six international Technology Innovation Awards from SolarPACES and CSPPLAZA China.

ABSTRACT

Bankable concentrating solar power (CSP) projects depend on reliable, verifiable solar field performance. This webinar presents practical quality-assurance methods to reduce technical risk, accelerate commissioning, and improve long-term plant output. Using data from commercial CSP plants in the United States and China, the presentation will examine actual ramp-up times to full power and key performance challenges. Topics include bankability requirements, solar resource assessment, solar field assembly and alignment measurements, and field optimization techniques. The webinar will also introduce the SolarPACES heliostat field guideline and optical-thermal hybrid commissioning methods, highlighting how systematic measurement and validation can strengthen performance confidence and project bankability.



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HelioStat Consortium Seminar series host:
Brooke Stanislawski

Register on Zoom: <https://bit.ly/4rx2oQi>