

Meteorological Services



Suntrace Provides

- Sophisticated on site measurement solutions with HelioScale stations jointly developed by Suntrace GmbH and Wilmers Messtechnik GmbH
- Cost-effective meteorological assessments from high-level project screening to bankable expert opinions for PV and CSP projects
- Reduction of uncertainties through our step-wise solar resource assessment approach providing a trustful base for the entire project development

Selected Credentials

- Solar mapping and monitoring with the MNRE / GIZ SolMap Project in India
- Support solar resource mapping for World Bank ESMAP in Maldives
- Installation / operation of nearly 200 measurement stations worldwide
- Standardising and benchmarking of satellite derived and measured solar radiation products for IEA and IEC
- Professional trainings and development of lectures on solar resources for GIZ in Brazil and India
- Solar resource assessments from initial investigations to bankable expert opinions for more than 2500 MW of PV and CSP plant capacity

✓ **Site Screening & Selection**

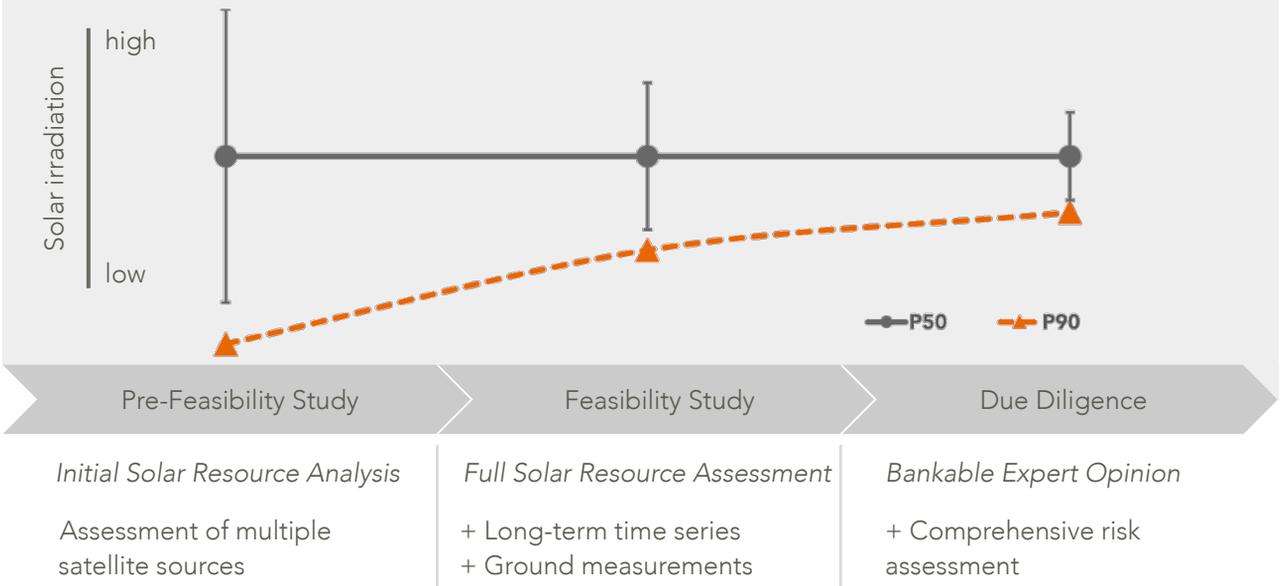
✓ **Solar Resource Assessments**

✓ **On Site Measurement Solutions**

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Solar Resource Assessments

Reducing uncertainties through Suntrace's step-wise solar resource assessment approach:



For PV and CSP projects, the highest source of uncertainties is that of Solar Resource. During the early stages of project development, the solar resource uncertainty from initial investigations can reach 10% and more. Through our step-wise solar resource assessment approach, and in particular through our on site measurement solutions, the solar resource uncertainties can be significantly reduced. This mitigative approach in turn increases the solar irradiation P90 value, and establishes a reliable and trustworthy base that is crucial for the bankability and investability of the project.

On Site Measurements

With our partner company Wilmers Messtechnik GmbH, we provide the HelioScale measurement stations ensuring a reliable foundation for solar project development and operation. We offer high quality measurement solutions focusing on compact and efficient design. Our team has installed more than 40 solar measurement stations and supervised more than 150 stations worldwide.

- Installation and commissioning
- Site maintenance and remote station operation
- Data validation and quality assurance
- Monthly and annual reporting
- Project specific solutions for solar radiation, ambient conditions, soiling, corrosion and wind measurements
- Measurement campaigns for market development



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