



# Solar Resource Assessment

## Key Benefits

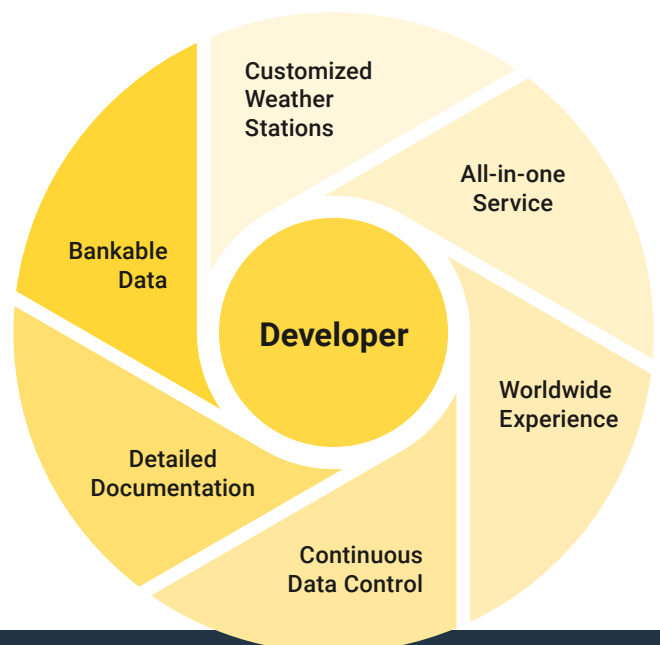
For development and financing of large-scale solar power projects, it is important to **quantify the solar resource and to reduce uncertainty** to a minimum.

We provide **turn-key ground measurement campaigns** delivering **gap-free bankable data**. This allows the developer to focus on other tasks. Simply put, we are a one-stop shop when it comes to solar measurements.

Our automatic weather stations are designed to integrate perfectly with our services. **Hardware is customized** according to regional and project-specific requirements, to ensure smooth campaigns and the highest data quality.

Fast deployment times, complete and transparent documentation, permanent monitoring of operation and data quality control by experts is essential to achieve bankable data quality.



More than a decade of successful projects and a strong and reliable network of regional partners enable us to **quickly deliver and commission our systems worldwide**, even in remote and hard-to-reach locations.





## Full Scope Service

- Site selection
- Site preparation (civil works, legal clearance, etc.)
- Design, configuration and delivery of meteorological equipment according to project-specific requirements
- Installation and commissioning of the equipment on site
- Staff training (maintenance, security, handling, etc.)
- Continuous data quality control and operation supervision
- Supervision and documentation of sensor cleaning
- Regular inspection and maintenance
- International best practices reporting and documentation
- Online access to measurement data and visualization
- Procurement of long-term ground measurement adapted satellite data, TMY files and bankable solar resource reports
- Project Management

<b>Customized Hardware</b>	<b>AWS-TIER 1</b>		<b>AWS-TIER 2</b>	
Technical specifics	High quality weather station with sun tracker		Robust low-maintenance weather station	
Solar irradiance measurement	Global Horizontal Irradiance (GHI), Diffuse Horizontal Irradiance (DHI), Direct Normal Irradiance (DNI)			
Solar sensors	ISO9060 Class A spectrally flat pyrliometer and (ventilated) pyranometers		ISO9060 Class A spectrally flat pyranometer, Rotating Shadowband Irradiometer (RSI)	
Meteorological sensors	Temperature and humidity, wind speed and direction, barometric pressure, rain			
Maintenance	3-7 cleaning & visual checks per week		1-2 cleaning & visual checks per week	
Power supply	Autonomous PV with battery			
Optional	PV: Albedo, Global Tilted Irradiance (GTI), module soiling, module temperature CSP: Mirror soiling, atmospheric attenuation, sunshape			
Bankability	++		+	