Your challenges
As the long-term availability of fossil fuels is becoming a major concern, authorities and investors are exploring photovoltaic (PV) power plants as a solution to their energy supply challenges. To calculate your financial risks and identify the best solar solution to invest in, you need a reliable study of potential technical and integration possibilities that will identify uncertainties on irradiation, yield and infrastructure. It is important to have an objective analysis of the appropriate PV power technology according to your particular financial, governmental and geographical situation in order to structure a competitive renewable energy concept.

What are bankable PV power solutions?
Bankable PV power solutions include feasibility and bankability assessments for PV power plants as the first step towards the development of a technically and financially sound PV installation. These solutions are an evaluation and analysis of the potential of a proposed PV project based on extensive investigation and research to give assurance to decision makers. They objectively and rationally uncover the strengths and weaknesses of a proposed investment, opportunities and threats as presented by the environment, the resources required to carry through, and ultimately the prospects for success.

Why are bankable PV power solutions important for your business?
The bankable solutions of a PV power plant are important for determining the economic, technical and operational requirements for long-term success of your financial investments before deciding the final technology and scope to be used. It also helps you compare various technologies and locations to ensure power supply for your clients.

How can we help you?
TÜV SÜD’s range of PV services gives peace of mind to investors, developers and authorities by ensuring that their decisions in the feasibility phase of PV power plant projects meet proposed technical and
Our assessment of solar PV potential based on meteorological data, site and integration evaluation as well as financial and economic analysis will give full assurance to decision makers. We support feasibility studies with additional solutions such as bankability studies, environmental due diligence, contract review and grid integration services.

**Our bankable PV services**

- **Technical assessment**
  TÜV SÜD provides verification of a location’s suitability, identification of critical site-specific aspects and simulation of energy yield based on site location and technology. Our technical experts assist you with measures to optimise the PV plant design, including PVSYST simulation software used together with climatic data resources such as METEONORM, SolarGIS, PVGIS classic and PVGIS-SAF.

- **Financial assessment**
  We calculate the annual power production of a PV plant based on the project design and local climatic conditions.

- **Economic assessment**
  Our experts provide an assessment of the economic feasibility of the project. This includes a country-specific analysis of the financial context and regulations.

**Your business benefits**

- **Minimise risk and gain certainty** – by identifying problems at a very early stage of decision making. This reduces the risk of planning faults and grid incompatibility, and ensures reliable operation of PV power plants.

- **Gain a competitive edge** – through a partnership with TÜV SÜD, a globally renowned third-party service provider.

- **Increase asset value** – with a correct assessment of the project’s economic profitability and higher yield study accuracy.

- **Benefit from a one-stop solution** – with our fully customised and integrated solutions covering the whole asset lifecycle.

**Why choose TÜV SÜD?**

TÜV SÜD is widely known as an independent third-party solutions provider capable of producing impartial and reliable reports on PV plants. We provide you with world-class expertise, which includes in-depth familiarity with international directives and regulations. Our international presence allows us to work around the world on your behalf, enabling you to take advantage of our many local offices for immediate and cost-effective support with premium TÜV SÜD quality.

We have specialists from a variety of different engineering disciplines with decades of accumulated experience in more than 200 PV plant projects worldwide. Our broad portfolio of industrial expertise covers all stages of the assets lifecycle including in-depth knowledge of technical, environmental and financial areas.

**Choose certainty. Add value.**

TÜV SÜD is a premium quality, safety and sustainability solutions provider that specialises in testing, inspection, auditing, certification, training and assessment services. Represented in over 800 locations worldwide, we hold accreditations in Europe, the Americas, the Middle East, Asia and Africa. By delivering objective solutions to our customers, we add tangible value to businesses, consumers and the environment.

**Related services**

TÜV SÜD provides the following related services:

- Site assessment
- Yield study
- Environmental due diligence
- Review of contracts
- Grid integration