Quality Makes the Difference

More than 30 years of experience

+ 25 Gigawatts connected to the grid worldwide

+ Over 5,000 dedicated experts

+ 100% PV focus

= Predictable yields

Your partner for utility-scale PV – now and in the future
German Engineering has become the world standard in PV and is highly appreciated. Products, designed in Germany, are reliable, long-lasting and easy to install and maintain. Our customers also rely on the excellent technical consulting and support that ensure a long productive life of their PV power plant.

Joseph Mashao
General Manager
SMA South Africa

German quality – at home around the world
PV power plants in more than 30 countries are reliable and profitable projects for the future – thanks to SMA inverters. Top quality ensures that climate-related and technical challenges are met.

Jeanette Klockgether
Executive Vice President
Sales and Marketing
SMA Power Plant Solutions

We are one of the first customers for SMA Central inverters in India and have been using them in several of our projects since 2009. Installation and operation of the inverters have been of the highest quality and haven’t failed even once in the past three years. The technology, performance, and support of SMA Central inverters is recommendable.

Inderpreet S Wadhwa
Chief Executive Officer of Azure Power, India
EXPERIENCE SETS THE BAR
More than 25 gigawatts of inverter output are installed across the globe with products and system solutions by SMA, about 9 gigawatts of which are in PV power plants of 250 megawatts and more in size.

ESTABLISHED PROCESSES
Development, production, and project management at the very highest level of quality underpin the German company’s global market and technology leadership. Drawing on many years of international experience and on well established quality processes, SMA has been setting the system solution standards for PV power plants for decades. Solutions that competitors are still tinkering with, SMA already has as part of its product portfolio and is using to convince customers across the globe.

A LIFETIME OF SUCCESS
SMA Solar Technology AG was founded in 1981 and is headquartered in Niestetal near Kassel, Germany. Today, more than 5,000 SMA employees worldwide are dedicated to developing, optimizing, producing, and selling our PV inverters to match every type and size of PV system.

The exceptional quality of SMA’s products and system technology solutions gives all our partners, system operators, investors, as well as banks providing financing the security they need. PV power plants with SMA technology are profitable projects over the long term.

QUALITY IS OUR PASSION
IN COLLABORATION WITH RESEARCH PARTNERS, WE ARE WORKING TO OPTIMIZE PV POWER PLANT COMPONENTS FOR USE IN THE PLANET’S SUNBELT. THIS COULD MEET THE ENERGY DEMAND OF MILLIONS OF PEOPLE THERE. WITH OUTSTANDING PRE-REQUISITES IN ALL AREAS OF DEVELOPMENT, SMA IS MAKING A SUBSTANTIAL CONTRIBUTION TO REALIZING TECHNOLOGICAL SOLUTIONS FOR THE PRODUCT AND SYSTEM DEVELOPMENTS OF THE FUTURE.

MICHAEL BREEDE
MANAGER, STRATEGIC PRODUCT MANAGEMENT, SMA
FROM IDEA TO INNOVATION
Every day, 1,000 research and development employees work at SMA to take PV inverters and system solutions to new heights. The company's experience in the field and more than 25 gigawatts of installed PV power around the world contribute to all phases of innovation and are a key factor in their developments. SMA uses the extensive knowledge and experience of its qualified experts from around the world, coupled with and supported by quality processes with the highest demands and continual optimization.

STATE-OF-THE-ART QUALITY CONTROLS
State-of-the-art quality tools are a component of every development process in order to ensure quality in every area. SMA follows through with its quality standards, which include the consistent evolving of the entire supply chain.
HEAT-RESISTANT
COLD-RESISTANT
MOISTURE-RESISTANT
DUST-PROOF
TESTED FOR ALL CONDITIONS
Quality is not an abstract principle for SMA, but rather a continuous process that plays a crucial role, especially in the comprehensive tests. In order to meet the high demands of the challenging tests, SMA built its own Test Center – the largest in the world for central inverters. State-of-the-art testing methods are deployed throughout 8 test chambers and 12 system and development test positions. Of note: combination tests are also conducted under full load.

FIT FOR THE WORLD
The Sunny Central inverters go through multiple tests, which examine the inverters’ compliance with standards and regulations, including country specific requirements such as the JET certification for the Japanese market or the Golden Sun certification for China.
Outstanding: The testing and development lab has been certified for the UL Client Test Data Program (CTDP) since 2010. This certification allows SMA to conduct relevant certifications for the American market directly with own UL-certified test equipment.
FROM INVERTER TO SMA INVERTER

Standardized but flexible processes ensure that SMA central inverters are manufactured according to the highest quality standards. This results in faster delivery times with high production numbers, even when taking individual customer requirements into account as needed.

The inverters, which are attached to yellow cabs, spend an average of 3.5 days in the production and test area before they are packed and ready to be delivered. Six of the 17 Sunny Central inverter manufacturing stations also include thorough optical inspections. These inspections allow optimal continuous testing of the production processes and they are crucial for the immediate detection and correction of errors. This is just one part of our comprehensive quality management.

Each Sunny Central inverter is checked for perfect operation at the end of the production process.

QUALITY IS A PROCESS
SMA adheres to the highest quality standards in its production of Sunny Central inverters in Denver. Employees receive extensive training, and the SMA production site holds International Organization for Standardization (ISO) certifications, demonstrating commitment to quality management. Each inverter is assembled with attention to detail and is designed for safe, reliable, and lasting performance.

Scott Crabtree
General Manager, Production SMA America
RELIABLE FROM THE START
The comprehensive project supervision the SMA project management team provides is an important aspect in ensuring the quality of product and system-related technology. Joint development of all requirements and the project’s standards play a crucial role, as do exacting design, planning, and dimensioning of a PV power plant. SMA experts guide the continuous technical testing, clarification of installation requirements, and especially the grid connection. SMA’s experience conducting business on a global scale has built its expertise in meeting country specific requirements.

ALWAYS ON THE GRID – WORLDWIDE
SMA central inverter’s renown grid integration and park control features fulfill all the requirements and regulations for country specific connection conditions. Immediate evaluation and integration of new requirements into the development process allow for fulfillment of future and retroactive guidelines and connection rules. SMA customers and partners benefit from secure feed-in without limitations – now and in the future.
AS A RESULT OF OUR MANY YEARS OF WORKING TO MEET LOCAL GRID REQUIREMENTS AND OUR OVERALL EXPERTISE WITH PV POWER PLANTS, SMA EXPERTS PARTICIPATE IN NUMEROUS WORLDWIDE COMMITTEES TO ESTABLISH GRID CODE REGULATIONS. THIS BRINGS ABOUT OPTIMAL SOLUTIONS FOR THE GRID CONNECTION OF PV POWER PLANTS.

GERD HACKENBERG
VICE PRESIDENT, GLOBAL TECHNICAL CONSULTING, SMA
HIGHER YIELDS – EVEN LOWER RISK

Multi-megawatt PV projects are an investment with enormous potential. They guarantee operators, investors, and financial institutions stable cash flows and secure investments over a lifetime of more than 20 years. Constant optimization reduces the lifecycle costs of all system components involved. Along with above-average lifetimes, risks are significantly minimized. Supported by comprehensive project management and optimal service, PV projects earn maximum profits.

Quality management and transparency are also important contributing factors. Through regular customer audits, either directly on-site or at SMA, customers are able to see the quality of each process and can track specific tests thereby creating nearly unlimited possibility for individual specifications. SMA experts make almost any testing scenario possible.

1,400 m²
area of SMA’s central inverter Test Center – the world’s largest

1,000 hours
durability tests for a Sunny Central, already in development

2562 x 2272 x 956 mm
dimensions for the compact and light Sunny Central CP XT inverter
WITH A LIFETIME OF MORE THAN 20 YEARS, UTILITY-SCALE PV PROJECTS ARE RELIABLE AND PROFITABLE INVESTMENTS. AND THE PROSPECTS ARE EVEN BETTER WITH SMA. PRODUCTS AND SYSTEM SOLUTIONS FROM THE WORLD-MARKET AND TECHNOLOGY LEADER ENABLE LONGER, STABLE PROJECT LIFETIMES, MAKING FUTURE YIELDS MORE SECURE TODAY.

THOMAS GÖTZ
VICE PRESIDENT, STRATEGIC SALES
SMA POWER PLANT SOLUTIONS
FIRST-CLASS SERVICE ENSURES YIELDS
Top quality components are a must for PV projects with an above-average and high-yield lifetime. Accompanying service is also crucial. SMA has highly trained experts working as field personnel at 90 SMA customer service stations around the world and always with expertise and latest in technological knowledge. Global competence and SMA quality go hand in hand perfectly. Flexible and extendable service contracts for large-scale PV plants including freely selectable modules complete the SMA service concept and ensure security and quality from the beginning to the end of every PV project.

PREVENTIVE MAINTENANCE
To reduce unanticipated service calls, SMA has introduced the principle of preventive maintenance. Expertly planned service calls minimize yield loss and increase the PV power plant’s cash flow and profitability. Ultra-fast response times and detailed, structured spare parts logistics minimize downtime. SMA spare parts logistics guarantees smooth operation of the PV power plant through automatic refilling and monitoring.
ALWAYS THE SAFE CHOICE
In PV projects in more than 30 different countries around the globe, SMA inverters and system solutions demonstrate their quality and reliability every day, no matter what climate-related and technical challenges must be met.
Now and in the future, SMA is your reliable partner. Our expertise and quality ensure that your PV projects will have the best prospects and the highest level of reliability around the world.

LEARN MORE
www.SMA.de/en

CONTACT US
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