



AB POWER
Engineering services



**Project
Planing**

**Installation &
Commission**

**Make Project
Operational**

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Quality.

Ab Power adheres to international standards of quality, institutes best-in-class quality control processes, and strives to consistently deliver only the highest quality products to our customers.



Reliability.

Ab Power maintains a strong sense of professionalism and accountability. Across both upstream and downstream operating segments, the company seeks to build strong relationships with partners who share our commitment to advancing the solar PV industry.



Sustainability.

Ab Power, we make significant efforts to reduce the waste and pollution created by our manufacturing process. In order to accelerate the transition to clean and reliable energy, we continually work to improve the efficiency and quality of our products, as well as advancing the technology we use.

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About AB Power



Introduction

AB Power is a leader in photovoltaic modules, solutions and services. Founded in 2017 and listed on the Pakistan solar services companies since 2019, AB Power today drives smart energy together with installers, distributors, utilities and developers entire country. The company is an innovative shaper of the global solar industry, operating both upstream in module supply and downstream in project development. AB Power specialises in the development and Installation of crystalline silicon photovoltaic modules and pioneers smart energy solutions for the future with continued downstream project investments, advanced smart panel technology and the introduction of innovative battery storage solutions. In 2019 AB Power became the Pakistan's number one PV module installer and once again set multiple national records for cell efficiency and module output. The company's industry-leading position is based on innovation excellence, superior product quality, vertically integrated capabilities, strong partnerships and environmental stewardship.

AB Power is actively stepping up its pace of globalization and its development of the senior leadership team. Over the last few years, an international line-up of senior managers and researchers from more than 20 Cities and provinces have joined the company. AB has its Punjab's headquarters in Faisalabad. AB Power products are sold in over 30 Cities.

AB Power is committed to sustainably growing the Pakistan's solar industry, guided by the mission to Benefit Mankind with Solar Energy, and aligning with the company's core values of Customer Focus, Open Mindedness, Mutual Respect and the Pursuit of Excellence.



Providing Power Solutions

2012



'AB Power' in Pakistan is defined as technology that creates harmony between people and nature

AB Power Vision

2025: Global Leader in Smart Low Carbon Energy

AB Power Mission

Benefit Mankind with Solar Energy

AB Power Core Values

Customer Focus, Open Mindedness
Respect & Win-win, Pursuit of Excellence

AB Power would like to propose a design for customers organization to develop a healthy relationship as consider it our professional responsibility to benefit you with our reliable products.

AB Power is a company which has been providing different power solutions since 2017. Since 2019 it is providing complete solar PV system solutions for residential and industrial as well as different power solutions like (Electrical DP Boxes Wirings, different manual and automatic electrical circuits CCTV installations, electrical load commissioning of PV and Grid etc.).



Turnkey Power Solution

2019



Achieved complete vertical integration by launching turnkey installation facility

AB Power being INVEREX POWER SOLUTION authorized dealer & Solar PV System Installer is Pakistan's largest power solution company which has a nationwide presence. In 2013 solar inverters and panels were launched under the umbrella of INVEREX POWER. In 2015 INVEREX POWER became one of the leading companies in the field of renewable energy. AB Power deals in other branded companies solar inverter and solar PV system installation high quality materials as well as electrical home appliances and all electrical branded materials sales & delivery in all over the Pakistan.

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Quality



We put our **modules** through over

36 rigorous in-house and outdoor tests

At AB Power we strive to deliver only the highest quality products to our customers. Perfect Power adheres to international standards of quality and implements stringent quality control processes, holding our products to the highest standards.

Center For Excellence

Our "Center for Excellence" laboratory includes a broad range of equipment used to conduct quality control tests, product certifications, material reliability checks, and in-depth research. The equipment in the Center is of the same caliber as that used in internationally recognized and independent testing centers. All testing procedures are performed in accordance with UL1703, IEC61215, and IEC61730 standards.

In our Center for Excellence we put our modules through over 36 rigorous in-house tests to ensure reliability and performance. This allows us to confidently stand behind our 20 year and 25 year output warranties.

The Best \$/Kwh

To us, the true value of a panel lies in the electricity it generates over time. Our panels continue to demonstrate superior performance in independent tests across the globe.

AB Power represents a sound investment and you can rest assured you'll be getting the best \$/kWh. Many customers find that our panels and systems outperform their official specifications. We call that Quality You Can Count On.

Environmental Reliability Testing

We put our PV modules through extreme environmental testing to ensure reliability and superior performance, even in the world's most unforgiving conditions.

Tests include:

- UV Preconditioning
- Impact
- Corrosive Atmosphere
- Hotspot Endurance
- Insulation (Dry, Wet)
- Thermal Cycling
- Wet Leakage
- Damp Heat
- Mechanical Load
- Highly Accelerated Stress
- Humidity Freeze
- Outdoor Exposure

Component Testing

AB Power carefully tests the performance of each module component in order to maximize electrical output whilst minimizing module degradation over time. Tests include:

- Bypass Diode Test
- Materials and Components Testing
- Quality checks throughout
- Micro-crack testing
- NOCT measurement
- Electrical Component testing
- Flash testing



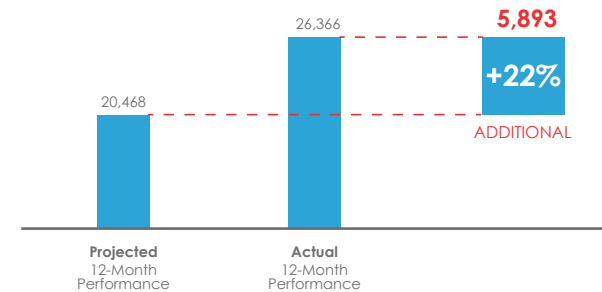
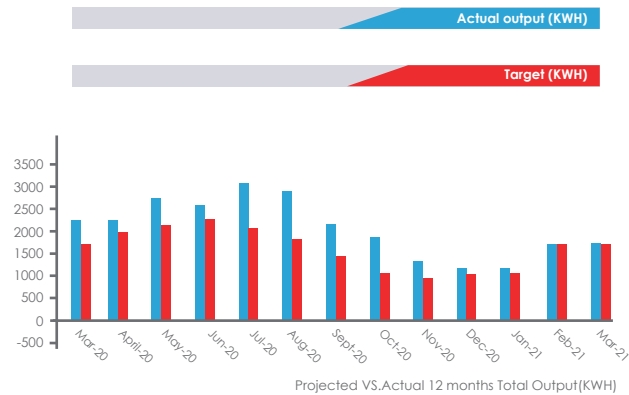


Quality

Product Performance

The quality of a panel relies on its ability to adapt to any environment and resist different types of stress. These characteristics ultimately influence the amount of electricity generated over a panel's lifetime.

AB Power products are tested by internationally recognized laboratories. Outside of the laboratory, our module continue to prove their high performance. For instance, the actual yield of our modules in an installation in Faisalabad, proved to be 12% higher than projected.



Data from OPDE PV plants
Projected data based on JRC source

Customer Service

To provide a comprehensive service to our customers, we offer complete pre- and after-sales services. This covers our products' electrical and mechanical characteristics, packaging, absolute ratings, I-V curves and product dimensions.

We have customer service representatives around the Pakistan who are trained to answer all questions about our products. Our local teams of engineers can also provide you with technical assistance for your system. Our regional warehouses across the Pakistan, including Punjab and the allow us to support customers in a timely and dependable manner.

Resilience

Our modules have received ammonia gas resistance certificates and salt mist certificates from TUV Rheinland and Intertek testing services. Perfect Power Solution's high quality mono- and multi-crystalline PV modules offer exceptional performance and can be installed in almost any climate conditions, including adverse environments with high concentrations of ammonia gas (like farmhouses) or salt mist (like seashores).

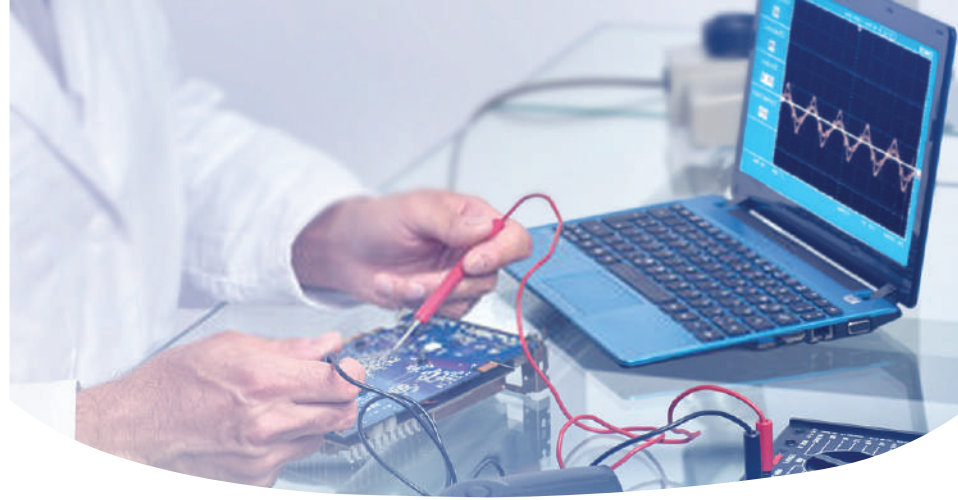
Our strong commitment to our customers drives us to continuously improve our products





Reliability

AB Power maintains a strong sense of professionalism and accountability. The company seeks to build strong relationships with partners who share a commitment to growing the solar PV industry.



We have achieved

23.15%

conversion
efficiency

Our Core Values

All research, development Ab power would like to propose a design for customers organization to develop a healthy relationship as consider it our professional responsibility to benefit you with our reliable products.

This integrated manufacturing and installations model allows us to provide better solar solutions to customers as we have more control over cost, quality, yield, product development and cycle times.

Vertical Integration

With the goal of accelerating the adoption of photovoltaics around the country, AB Power has developed a vertically integrated business model. This vertical integration not only allows us to offer our customers competitively-priced products, but it also enables us to monitor quality closely at each step of the manufacturing process. All ingots, wafers and cells are tested at each stage of production, and because transport and handling is kept to a minimum, they experience little breakage.

- Lower manufacturing costs and offer competitive pricing
- Reduce logistics costs and waste
- Reduce the amount of breakage loss associated with toll
- Reduce dependence on third party suppliers
- Shorten production cycle and improve value chain coordination
- Reduce reliance on toll manufacturing
- Streamline installation processes and improve product quality

Efficient Technology

In order to offer our customers the greatest possible value, Perfect Power invests heavily in research and development. The company is currently working to improve its installation processes which include new, state-of-the-art passivation and metallization techniques. Mono- and multi-crystalline cell conversion efficiencies have already reached 23.15% and 20.8% respectively.

Downstream Project Business

Our rapidly growing downstream business offers dependable design, planning and execution for utilities, residential and commercial distributed generation (DG) projects, as well as operating our solution and services business. With unrivalled competitive strengths and stringent quality controls covering every stage of project development, we have successfully built ground-mounted PV systems in key markets around the Pakistan.

Global Research Partnerships

We believe the road to leadership is paved with strong partnerships. AB Power has long-term partnerships with local utilities, distributors, project developers and system integrators in more than 20 Cities.

AB Power being INVEREX POWER SOLUTION authorized dealer & Solar PV System Installer is Pakistan's largest power solution company which has a nationwide presence. In 2013 solar inverters and panels were launched under the umbrella of INVEREX POWER. In 2015 INVEREX POWER became one of the leading companies in the field of renewable energy. AB Power deals in other branded companies solar inverter and solar PV system installation high quality materials as well as electrical home appliances and all electrical branded materials sales & delivery in all over the Pakistan.



Sustainability

At AB Power, we are making significant efforts to reduce the waste and pollution created by our Installation processes.

In order to accelerate the transition to clean, reliable energy, we are continuously working to improve the efficiency and quality of our products, as well as to advance the technology we use.



Ranked **#1**
by the Pakistan's Toxics Coalition for
social and installation responsibility and
output performance in
the PV industry

Corporate Social Responsibility

Solar photovoltaics present an affordable, reliable and clean way to generate electricity for off-grid communities and to supplement existing, more expensive electricity production for those on the grid. The industry continues to make great progress, improving efficiencies and reducing costs. As the industry's ability to have a positive impact on the world rises, so too does its responsibility. We believe that AB Power can lead the industry, bringing energy independence and empowering individuals and their communities.

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Environmental Responsibility

As a global community, our improving standard of living comes at a cost. We consume greater amounts of electricity every day and the question of how to generate that electricity is critical. If we continue to rely on fossil fuels and emit ever-greater amounts of greenhouse gases, the damage to our environment and ourselves may become irreversible.

We have worked hard to reduce the waste and pollution caused by our manufacturing processes. We have installed anti-pollution equipment at our facilities to reduce, treat, and recycle waste.

We obtained the ISO 14001 Environmental Management Standards certification. We also received the ISO 14064-1:2006 verification statement from the British Standards Institution (BSI), reflecting our dedication to minimizing our manufacturing's harmful effects on the environment, and our efforts to comply with regulatory requirements and continuously improve our environmental performance.

In 2017 to 2019 AB Power was ranked No. 1 nationally for environmental and social performance in the Solar Performance, we covering the assessment areas of extended producer responsibility, occupational health and safety, chemical use, supplychain responsibility and life cycle analysis.

Climate change knows no boundaries. Together we need electricity that is environmentally sustainable, economically feasible and easy to implement on any scale.





Projects



Gulburg Road

15 kWh

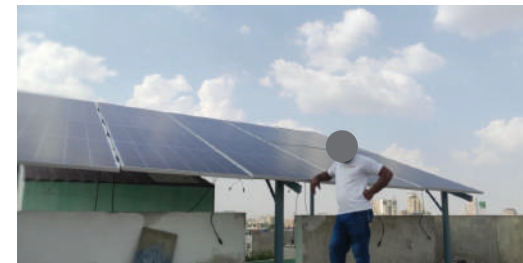
Location: Faisalabad, Pakistan
Completion Date: October 2017
Installation Type: Roof Mounted PV Plant



Kashmir Road

05 kWh

Location: Faisalabad, Pakistan
Completion Date: October 2017
Installation Type: Tube Well



Nashatabad Road

05 kWh

Location: Faisalabad, Pakistan
Completion Date: December 2017
Installation Type: Roof Mounted PV Plant



Satiana Road

10 kWh

Location: Faisalabad, Pakistan
Completion Date: October 2018
Installation Type: Tube well



Jhang Road

03 kWh

Location: Faisalabad, Pakistan
Completion Date: April 2019
Installation Type: Roof Mounted PV Plant



Mumtaz City

05 kWh

Location: Islamabad, Pakistan
Completion Date: December 2019
Installation Type: Roof Mounted PV Plant



Milat Road

05 kWh

Location: Faisalabad, Pakistan
Completion Date: January 2021
Installation Type: Roof Mounted PV Plant

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Sujaabad Town

05 kWh

Location: Multan, Pakistan
Completion Date: July 2021
Installation Type: Roof Mounted PV Plant



Jalapur Pirwala Town

05 kWh

Location: Multan, Pakistan
Completion Date: June 2022
Installation Type: Roof Mounted PV Plant





Projects



Satellite Town

15 kWh

Location: Rawalpindi, Pakistan
Completion Date: September 2017
Installation Type: Roof Mounted PV Plant



Bahria Town

05 kWh

Location: Islamabad, Pakistan
Completion Date: October 2017
Installation Type: Roof Mounted PV Plant



Aziz Bhatti town

05 kWh

Location: Lahore, Pakistan
Completion Date: December 2017
Installation Type: Roof Mounted PV Plant



Gulsha Iqbal

10 kWh

Location: Lahore, Pakistan
Completion Date: October 2018
Installation Type: Roof Mounted PV Plant



Shadrah Road

03 kWh

Location: Lahore, Pakistan
Completion Date: April 2019
Installation Type: Tube Well



Peshawar Road

09 kWh

Location: Rawalpindi, Pakistan
Completion Date: December 2019
Installation Type: Roof Mounted PV Plant



Iqbal Town

05 kWh

Location: Lahore, Pakistan
Completion Date: January 2021
Installation Type: Roof Mounted PV Plant

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Bosan Town

05 kWh

Location: Multan, Pakistan
Completion Date: July 2021
Installation Type: Roof Mounted PV Plant



Shah Rukn-e-alam

05 kWh

Location: Multan, Pakistan
Completion Date: June 2022
Installation Type: Roof Mounted PV Plant

