

## 2nd International Solar Power Conclave and Technology Excellence Awards 2025

# Pakistan's deepening energy crisis and its direct link to climate change brought into the spotlight



Group Photo of 2nd Int'l Solar Power Technology Excellence Awards Winners 2025 with Chief Guest Governor Punjab Sardar Saleem Haider Khan and Team Energy Update.

Punjab Governor declares renewable energy to be the most effective remedy for environmental degradation

**Mustafa Tahir**

Pakistan's deepening energy crisis and its direct link to climate change were brought under the spotlight at the 2nd International Solar Power Conclave and Technology Excellence Awards 2025, held in Lahore.

The landmark event, organised by Energy Update in collaboration with the Private Power and Infrastructure Board (PPIB), the Pakistan Solar Association (PSA), the Pakistan Alternative Energy Association (PAEA), and the Renewable Energy Association of Pakistan (REAP), assembled senior policymakers, international technology providers, and industry leaders for dialogue on how renewable energy can reshape Pakistan's energy landscape.

Punjab Governor Sardar Saleem Haider Khan, in his keynote address, declared renew-

able energy to be the most effective remedy for environmental degradation, which he said had already unleashed devastating floods and extreme weather patterns across Pakistan. He praised the example of Sindh's post-2022 flood rehabilitation initiative, in which more than two million solar-powered houses were constructed for displaced families, describing it as a model for sustainable rebuilding nationwide.

The Governor also criticised policy instability on green meters, which, he argued, had shaken public confidence in renewable energy adoption. Stressing the need to break away from crippling power purchase agreements with independent power producers, he called for bold support of solar manufacturing at an industrial scale and assured the renewable energy sector of government backing.

Rana Mashood Ahmad Khan, Chairman of the Prime Minister's Youth Programme, described the clean energy shift as inseparable





From L to R Governor Punjab Sardar Saleem Haider Khan, Chairman PM Youth Programme Rana Mashood Khan, Member PM Solarization Committee Faizan Ali Shah, Chairman Organizing Committee Naeem Qureshi, Hamza Sajid, HOD Aftersales (Central/South Asia & Middle East), Solis Inverters, Engr. Mian Fahad, Country Director, Growatt New Energy, Mubarak Hussain Mir - Country Manager Huawei Digital Power Pakistan, M. Zakir Ali CEO Inverex Solar Energy, Danny Song, Director of Product Center Risen Energy Co., Ltd., Faizan Haider Hashmi Jinko Solar, Faraz Muhammad Khan, Sales Strategy & Development Manager, Jinko Solar Co., Ltd., Waqas Khaleeq, CEO, Smart Solar, Ruqiya Naeem, Director Admin and Finance Energy Update, Athar Hayat CEO Bahum Associates and Javed Afridi, CEO SunLife Solar addressing on this occasion.



from the technological transformation sweeping across the world. He explained that artificial intelligence and renewable energy were already defining the future of economies, and Pakistan must catch up quickly. Unveiling details of the government's Electric Vehicle Policy 2030, he announced that sixty per cent of the country's vehicles are planned to be converted to electric over the next decade, with Chinese partnerships being pursued to encourage local manufacturing. He emphasised that Pakistan's youth would be at the centre of this transition, calling technology not a choice but an inevitability.

Engr. Syed Faizan Ali Shah, a member of the Prime Minister's Pakistan Solarisation Committee, gave a sobering

statistical picture of the country's energy profile. He revealed that the number of electricity consumers has now reached forty million, with eighteen million falling into the lifeline category—a sharp increase from eleven million in 2022. This rapid growth, he said, shows how unaffordable conventional power has become, forcing households towards subsidised usage and household solar solutions. He also highlighted the government's initiative to shift nearly six hundred captive industries to the national grid, while proposing the solarisation of grid stations and the introduction of battery storage systems to stabilise supply for industry.

The voices of private sector leaders underscored the frustration over policies that many felt were inconsistent and

burdensome.

\*Meanwhile, international and local industry representatives also emphasised the pivotal role of solar energy in reshaping Pakistan's future.

Hamza Sajid of Solis Inverters stressed that solar energy offered the most environmentally responsible path forward, helping Pakistan curb its carbon footprint while meeting growing power demand.

Engr. Mian Fahad, Country Director of Growatt New Energy, highlighted that localised solar solutions could unlock energy access in underserved areas, advancing both social equity and national security.

Mubarak Hussain Mir, Country Manager of Huawei Digital Power Pakistan, observed that large-scale solar



Ruqiya Naeem, Director Admin and Finance Energy Update presenting memento to Sardar Saleem Haider Khan, Governor Punjab



M. Zakir Ali CEO Inverex Solar Energy and Chairman PSA Waqas Moosa Presenting memento to Muhammad Yousuf Former Test Captain of Pakistan Cricket Team.





**Group Photo of Sponsors and Speakers with Chairman PSA Waqas Moosa and PM Solarization Committee Member Faizan Ali Shah**

**Group Photo of Speakers**

deployment would strengthen Pakistan's resilience against climate change, positioning the country as a regional leader in clean energy adoption.\*

Faraz Muhammad Khan, Sales Strategy & Development Manager at Jinko Solar, described solarisation as the key to energy reliability, explaining that Pakistan could achieve long-term stability only by reducing its dependence on volatile fuel imports.

Dany Song, Director of the Product Centre at Risen Energy, noted that renewable energy was not only essential for lowering electricity costs but also for enhancing national independence by cutting reliance on external suppliers.

Waqas Khaleeq, Chief Executive of Smart Solar, pointed out that the widespread adoption of solar power would drive economic sustainability by easing the government's subsidy burden and making local industry more competitive.

Javed Afridi lamented that harsh taxation and unfriendly regulations had strangled local industrial growth, despite its potential to generate jobs and save foreign exchange. Business executive Faaz Diwan added that the imposition of taxes on solar panels placed an unfair burden on ordinary households, while wealthier consumers often secured exemptions. Renewable energy expert Engr. Haider Javed warned that Pakistan risked falling behind unless it adopted new technologies in time, pointing to the promise of floating solar systems which can simultaneously

provide clean energy and conserve water. Similarly, Zakir Ali, Chief Executive of Inverex Solar Energy, maintained that solar power was now an irreversible part of the country's future, though government support would determine whether its potential was truly realised.

Athar Hayat, Chief Executive of Bahum Global & Bahum Associates, described Pakistan as already being one of the top ten solar markets in the world, arguing that such a position should inspire greater urgency in expanding local manufacturing and investment.

Waqas Moosa, Chairman of the Pakistan Solar Association, closed the technical discussions by emphasising that public-private partnerships were the only way forward to scale renewable energy across Pakistan. International representatives from leading firms echoed this view, pointing to technology transfer, investment opportunities, and global best practices that Pakistan could adopt if it provided a stable policy environment.

Syed Fahad Zeeshan, CEO of Interface Engineering and Construction, argued that a vibrant solar sector would promote technological independence by encouraging domestic expertise and innovation.

The conclave also became a platform for reflecting on Pakistan's wider energy predicament. For decades, reliance on imported fuels and rigid power contracts has locked the country into a cycle of unaffordable tariffs and mounting subsidies. While the government shoulders

enormous costs, industries remain uncompetitive and millions of households are increasingly dependent on subsidies. Yet, the experts at Lahore were unanimous in stating that Pakistan possesses more than enough solar potential to power its future many times over. The country's challenge, they agreed, was not potential but the political will and policy stability to convert this into reality.

In his welcome address, Muhammad Naeem Qureshi, Chairman of the Organising Committee, spoke about the journey of Energy Update magazine since its inception in 2008, stressing that the conclave was intended to be a knowledge-sharing and networking platform that reinforced Pakistan's alignment with both national development priorities and global climate goals.

The day concluded with the presentation of the Solar Excellence Awards 2025, which honoured 33 organisations and individuals for outstanding contributions to renewable energy. The ceremony, graced by former Pakistan cricket captain Muhammad Yousaf, added a symbolic touch to an event that aimed to inspire both policymakers and citizens.

The Lahore conclave ultimately carried a clear and urgent message: Pakistan's future stability, prosperity, and environmental survival depend on a renewable energy revolution. The question left hanging in the air was whether the momentum from this gathering would be translated into concrete and lasting action. ■



**Group Photo of Organizers with Rana Mashood Khan and M. Yousuf**



**Glimpse of Panel Discussion includes Waqas Moosa, Chairman, Pakistan Solar Association, Faaz Diwan, Director, Diwan International Pvt Ltd., Syed Fahad Zeeshan, CEO, Interface Engineering & Construction (Pvt) Limited, Engr. Haider Javed, Practice Lead Renewables, MM Pakistan Pvt Ltd. and Zulfiqar**



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### SOLIS INVERTERS

Founded in 2005, Ginlong Technologies (Stock Code: SZ.300763), operating under the Solis brand, is one of the world's most experienced and leading manufacturers of solar inverters.



With two decades of innovation, Solis has established itself as a global leader, providing cost-effective and reliable inverter solutions for residential, commercial, industrial, and utility-scale applications. Solis is consistently ranked among the world's Top 3 PV inverter manufacturers by Wood Mackenzie and BloombergNEF, achieving a reputation for technological excellence, bankability, and long-term reliability. As of 2025, the company has shipped over 120 GW of inverters worldwide, with an annual capacity exceeding 80 GW. In 2024 alone, Solis delivered 27.4 GW of shipments, earning recognition as the Global No.1 Residential Inverter Supplier and a BloombergNEF Tier 1 inverter manufacturer.

The Solis product portfolio spans grid-tied inverters (0.7 kW to 350 kW) and energy storage inverters (3 kW to 125 kW), designed with advanced string technology to ensure efficiency, flexibility, and durability across diverse energy needs. These solutions are trusted by homeowners, businesses, power producers, and renewable energy investors worldwide.

With a workforce of over 5,000 employees, including a 1,000-strong R&D team, Solis is committed to continuous innovation. Its products are certified under the world's most stringent international standards, ensuring quality and compliance in every market it serves. Supported by 53 global service centers and a dedicated customer service team of more than 300 experts, Solis provides localized expertise and end-to-end technical support, strengthening its position as a trusted partner in the clean energy transition.

Sustainability is central to Solis' mission. To date, its inverter deployments have generated 166.6 billion kWh of clean electricity, offsetting over 150 million metric tons of carbon emissions. The company ensures all suppliers comply with environmental protection agreements and RoHS directives, while in-house energy management initiatives reduce consumption and improve resource efficiency during manufacturing. Recognized by EUPD Research as a "Top PV Inverter Brand" for 10 consecutive years (2016–2025) and ranked among the Top 50 Most Innovative Companies by Forbes China (2023), Solis continues to demonstrate leadership in renewable energy. Its achievements, certifications, and global bankability reflect a strong commitment to accelerating the world's journey towards a more sustainable and carbon-neutral future. Solis – Global Reach, Local Expertise, and Proven Reliability in Solar Energy.

### SHENZHEN GROWATT NEW ENERGY TECHNOLOGY CO., LTD.

Growatt stands as a global titan in the renewable energy sector, officially recognized as the Global No. 1 Residential PV Inverter Supplier and a Global TOP 3 Hybrid Inverter Supplier in 2024 (Source: S&P Global Commodity Insights). Founded in 2011, the company has revolutionized the industry by providing intelligent and integrated energy solutions that encompass solar generation, storage, and management.



With an unwavering commitment to innovation and quality, Growatt empowers homeowners, businesses, and utilities worldwide to achieve energy independence and sustainability. Its award-winning products are trusted in over 180 countries, making it a definitive leader in the clean energy transition.

#### Leadership and Market Position

Growatt's market leadership is consistently validated by leading industry analysts. Its designation as the world's top residential inverter supplier underscores its dominant share of the global market. This excellence is further confirmed by the prestigious EUPD Research Top Brand PV Award, which Growatt has been awarded for an impressive eight consecutive years (2018–2025). This accolade highlights its brand strength and customer satisfaction across key international markets, including Germany, Australia, Mexico, Brazil, Pakistan, and the Middle East & North Africa region.

Regional Dominance and Record-Breaking Growth Beyond its global rankings, Growatt has established unparalleled dominance in specific high-growth markets. The company has achieved record-breaking installation figures across Pakistan, its neighbouring countries, the Middle East, and Central Asia. This remarkable growth is fueled by a combination of high-performing, reliable products tailored to regional needs and a robust distribution network. In Pakistan specifically, Growatt has secured the highest sales volume, cementing its position as the most trusted inverter brand in the market and a key driver of the country's solar energy adoption.

#### Product Ecosystem and Innovation

Growatt's success is built on a comprehensive and innovative product portfolio, including:

- **Solar Inverters:** Ranging from residential microinverters to large-scale utility solutions, all known for high efficiency (up to 99%) and reliability.
- **Energy Storage Systems:** Modular battery solutions like the ARK series that provide backup power and maximize self-consumption of solar energy.
- **Smart Energy Management:** Advanced monitoring platforms that allow users to optimize energy usage in real-time.



## HUAWEI INTERNATIONAL CO. LIMITED

Founded in 1987, Huawei is a leading global provider of information and communications technology (ICT) infrastructure and smart devices. We have approximately 208,000 employees and we operate in over 170 countries and regions, serving more than three billion people around the world. We are committed to bringing digital to every person, home and organization for a fully connected, intelligent world.

Today, we live in a dynamic and turbulent world, where changes occur at breathtaking speed. Challenges loom large, yet the opportunities before us are unparalleled. At Huawei, we have two key drivers of innovation: science and technology, and customer needs. Both commercial value and market demands are driving our innovation and determining how we invest in science and technology. Breakthroughs in technology, in return, stimulate customer needs and allow us to create greater value for customers. In 2024, our total R&D spending reached CNY179.7 billion, representing 20.8% of our total revenue. Sustainability is a key part of Huawei's corporate strategy, so we have continued to make progress on our four sustainability strategies: digital inclusion, security and trustworthiness, environmental protection, and a healthy and harmonious ecosystem. These efforts will contribute to achieving the United Nations Sustainable Development Goals (UN SDGs).



## RISEN ENERGY CO., LTD.

Founded in 1986, Risen Energy was listed on the Shenzhen Stock Exchange



in 2010 (Stock Code: 300118). As a global leader in the renewable energy industry, Risen Energy has consistently prioritized technological innovation, making significant contributions to the sustainable development of the global energy ecosystem. With its cutting-edge heterojunction (HJT) photovoltaic module technology, the company is driving a technological revolution in the solar industry. Risen Energy integrates photovoltaics, energy storage, power station development, and smart energy management. Through strategic investments across the entire energy value chain—from production, conversion, and storage to consumption, operation, and management—Risen Energy accelerates the fusion of solar and storage. This enables the delivery of holistic, green solutions that empower partners to achieve more efficient and intelligent energy utilization, driving the transition towards a low-carbon future.

## JINKO SOLAR CO., LTD

\*JinkoSolar Holding Co., Ltd\*. is one of the world's largest and most innovative solar module manufacturers, leading the global clean energy transition. Listed as a public limited company on both the Shanghai Stock Exchange (SSE STAR Market) and the New York Stock Exchange (NYSE: JKS), JinkoSolar operates with global standards of transparency and governance. Headquartered in Shanghai, China, and active in over 190 countries, the company has supplied more than 320 GW of solar modules worldwide, including over 150 GW of its advanced N-type TOP-Con (Tiger Neo) PV modules.

JinkoSolar offers a wide range of high-performance modules with power ratings of 580–600W, 610–625W, 630–670W, and 705–735W, meeting diverse project needs across utility, commercial, and residential applications. The latest Tiger Neo modules deliver efficiencies up to 24.8%, with a bifaciality gain of up to 90% that boosts annual energy yield. Equipped with superior low-light performance and anti-shading technology, they ensure consistent and reliable energy generation throughout the year. Globally recognized for quality and reliability, JinkoSolar has consistently ranked as a Bloomberg Tier 1 manufacturer and a Top Performer by Kiwa PVEL for 11 consecutive years. Backed by advanced R&D and sustainable operations, JinkoSolar continues to drive a cleaner, brighter energy future worldwide.



## SOLAX POWER NETWORK TECHNOLOGY (ZHEJIANG) CO., LTD

Established in 2012, SolaX Power is a publicly listed global leader specializing in solar energy



storage and smart energy technologies. Offering a comprehensive product portfolio including inverters, batteries, energy storage systems, EV chargers, heat pumps, and integrated smart energy solutions, SolaX serves diverse application scenarios across residential, commercial and industrial, and utility-scale projects. With a strong commitment to innovation, driven by an R&D team representing 30% of its workforce, SolaX continues to deliver market-leading solutions worldwide. Dedicated to sustainability and backed by extensive global partnerships, SolaX helps customers in over 110 countries achieve their energy transition goals and significantly reduce carbon emissions.



### INVEREX SOLAR ENERGY

Established in 2007, Inverex Solar Energy has emerged as Pakistan's No.1 solar brand and a pioneering leader in renewable energy solutions. Guided by a vision of sustainability and innovation, Inverex has been at the forefront of driving the nation's transition toward clean and affordable energy.



With a comprehensive product portfolio that includes state-of-the-art solar inverters, lithium-ion batteries, and high-performance solar panels, Inverex delivers reliable and efficient energy solutions designed for Pakistan's unique environment. The company is trusted by households, businesses, and industries alike for its commitment to quality, durability, and advanced technology.

Customer service is at the heart of Inverex's philosophy. With a network of 35+ service centers and a team of trained engineers nationwide, Inverex ensures seamless support and satisfaction for its valued customers.

In 2025, Inverex took a bold step forward by entering the Electric Vehicle (EV) segment, making affordable green mobility accessible for every Pakistani. This milestone reflects Inverex's unwavering mission to integrate clean energy with next-generation solutions, empowering a sustainable and self-reliant future.

Today, Inverex stands not only as a market leader but also as a symbol of Pakistan's renewable energy revolution.

### JOLYWOOD (TAIZHOU) SOLAR TECHNOLOGY CO.,LTD.

Founded in 2008 and publicly listed in China in 2014, Jolywood Solar has established itself



as a state-level high-tech enterprise, specializing in the research, development, and manufacturing of advanced photovoltaic (PV) products. Renowned globally for its commitment to innovation, efficiency, and sustainability, Jolywood has emerged as a trusted leader in the renewable energy sector.

Jolywood is recognized as the world's largest producer of N-type bifacial solar cells and modules, a technology that delivers unmatched energy yield, superior durability, and long-term reliability even in the most challenging environments. With continuous investment in R&D and a strong focus on high-efficiency PV products, Jolywood is setting new standards in the solar industry, making clean energy more accessible worldwide.

In Pakistan, Inverex Solar Energy proudly serves as the official partner of Jolywood Solar, introducing its advanced product portfolio to meet the nation's rising energy demands. Together, Jolywood and Inverex are empowering households, businesses, and industries with world-class solar solutions — reducing dependence on fossil fuels, supporting energy independence, and contributing to a greener, more sustainable future.

Through this collaboration, Pakistan gains access to global expertise, state-of-the-art technology, and a reliable partner for its renewable energy journey.

### ZIEWNIC PVT LIMITED

Ziewnic Solar Energy is one of Pakistan's emerging leaders in sustainable energy solutions, dedicated to transforming the way people power their lives. With a vision of reducing dependency on conventional electricity and combating rising energy costs, Ziewnic provides advanced solar inverters, lithium batteries, and smart energy systems tailored to the country's unique needs.

At Ziewnic, innovation meets reliability. Our product range includes state-of-the-art solar inverters with dual MPPT technology, high-efficiency lithium batteries, and user-friendly monitoring systems that ensure maximum output and durability. Designed to withstand extreme weather, our solutions deliver consistent performance in Pakistan's challenging conditions, making renewable energy accessible for homes, businesses, and industries.

We believe in more than just selling products – we deliver complete energy independence. From installation support to after-sales service, Ziewnic focuses on building long-term trust with customers and partners. Our loyalty programs, installer incentives, and distributor tours are proof of our commitment to strengthening the solar community nationwide.

By embracing Ziewnic Solar Energy, customers not only save on electricity bills but also contribute to a greener and smarter Pakistan. Together, we are lighting the path toward a sustainable future, one home and business at a time.



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### BAHUM ASSOCIATES (PVT) LTD

Founded in 1984, Bahum Associates is a multidisciplinary engineering and technology solutions provider with over 35 years of expertise in Pakistan and abroad. The company has successfully delivered turnkey solutions across mechanical, electrical, civil, telecom, and IT domains.

In the past six years, Bahum has strategically focused on Solar PV solutions, playing a vital role in combating Pakistan's energy crisis. Under the visionary leadership of Mr. Athar Hayat (CEO), Bahum has consistently upheld its commitment to innovation, quality, and client satisfaction.

Choosing Huawei as its trusted C&I inverter brand in Pakistan, Bahum has set benchmarks in the solar sector. The company's performance has been recognized internationally, earning Huawei's Best Performance Award for the Middle East & Asia multiple times, along with the Highest Buyer Award in 2024.

Bahum has enabled industries to meet their sustainable energy targets through landmark EPC deployments, including Kohat Cement (24MW), Gharibwal Cement (30MW), Kohinoor Textile (20MW), Sapphire (13MW), and Mehmood Group (25MW).

With nationwide presence, a skilled team of engineers, and a proven track record, Bahum Associates continues to drive excellence and innovation, reinforcing its position as a leader in Pakistan's solar industry.



### DIWAN INTERNATIONAL PVT LTD.

Since 1993, Diwan Group of Companies has been shaping progress in Pakistan with a legacy built on trust, integrity and growth. Through Diwan International Private Limited, we have emerged as one of the country's most dynamic and respected business groups. By introducing global brands into Pakistan and building strong international partnerships, we continue to create opportunities, transfer knowledge and raise industry standards. Our diverse portfolio covers Renewable Energy, Power Solutions, Food Commodities, Textiles and Building Materials. In particular, our renewable energy initiatives are playing a vital role in building a greener Pakistan by offering sustainable products and solutions that reduce dependence on traditional energy sources. With strong equity and world-class technical collaborations, we bring the best of global expertise together with local strength to serve industries, businesses and communities across the nation. Guided by family values and strengthened by professional leadership, Diwan Group continues to evolve as a progressive, future-focused organization. With a clear commitment to excellence, sustainability and long-term growth, we remain dedicated to shaping a stronger and greener Pakistan.



### SHANGHAI PYTES ENERGY

As a leading lithium battery solution provider, Pytes is committed to providing energy storage solutions.



Started in 2004, with continuous support and technical experience, more than 1,000 Pytes employees are now working to build a greener future. Grasping the general trend of globalization, Pytes not only has multiple production bases in China, but also runs branches, offices and factories in North America, Europe, Vietnam and other sites to achieve multi-regional coverage of the service network, with faster delivery and quicker response. Creating, Undertaking, Sharing, we practice our philosophy and fulfill the mission that to deliver safe, reliable and affordable clean energy to home and community for a more carbon-free future.

### TRUE SOLAR (PVT.) LIMITED

True Solar Pvt. Ltd. stands at the forefront of Pakistan's renewable energy revolution. As an AEDB- and PEC-licensed company with over 50 MW of solar projects



successfully delivered, we are redefining how industries, hospitals, and businesses harness the power of the sun. Our strength lies in precision engineering, global technology partnerships, and a customer-first approach ensuring every installation delivers maximum savings, reliability, and long-term value. From industrial giants to healthcare institutions, leading organizations have placed their trust in True Solar to power their growth. Our prestigious portfolio includes Jilani Plastic, Guard Group, Ideal Group, MCIB, Sahil Wood, FWO, Texo Poly, Stellar, Gallop Water, Mass Pharma, Samsol, Arshad Textiles, Royal Leather, AJ Leather, Rasheed Hospital, Mumtaz Bakht-awar Hospitals, Aesthetic Labs, Al-Shifa Hospital, Faisal Rice, Sahiwal Flour Mills, and Diyan Flour Mills. Each project stands as a proof of our expertise in delivering on-grid, hybrid, and customized solar solutions that reduce energy costs and carbon emissions. With operations expanding internationally, including Australia, True Solar is evolving into a global clean-energy brand. Our vision is bold yet simple: to empower communities, industries, and nations with sustainable energy solutions that create measurable impact—today, and for generations to come.



## PROGRESSIVE VENTURES

Progressive Ventures is a dedicated partner of EPEVER, a globally recognized manufacturer with more than 15 years of expertise

in renewable energy technologies. As EPEVER's official representative in Pakistan, we are committed to providing innovative, reliable, and efficient solar solutions that align with Pakistan's growing energy requirements.

### Product & Service Portfolio

Our specialized portfolio includes:

- Solar Charge Controllers – Advanced MPPT and PWM controllers ensuring efficient charging and protection.
- Small Home Systems – Complete solar kits for residential applications, including panels, controllers, and accessories.
- Solar Inverters – High-performance inverters with multiple capacity options for reliable DC-AC conversion.
- Lithium Batteries – Durable energy storage solutions with integrated battery management systems.
- Turnkey Solar System Installation – Complete design, supply, installation, testing, and commissioning of solar energy systems for residential, commercial, and institutional applications.

All products conform to international quality standards and are engineered to deliver optimal performance under Pakistan's diverse climatic conditions. Our installation services are delivered by trained professionals, ensuring compliance with safety and technical standards. Progressive Ventures ensures:

- Competitive pricing structures
- Reliable and timely deliveries
- Professional installation and commissioning
- Dedicated after-sales and technical support



## BS ENGINEERING & CONSTRUCTION WORKS

Founded in 2019, BS Engineering & Construction Works (BSECW) has rapidly emerged as one of Pakistan's leading renewable energy solution providers.

With a strong commitment to sustainability, innovation, and reliability, the company specializes in solar energy system design, EPC services, net metering solutions, retrofitting, and smart energy integration. Over the years, BSECW has successfully executed 500+ projects across residential, commercial, industrial, and government sectors, with a combined installed capacity exceeding 100 MW. Our notable initiatives include the Solarization of Public Colleges (5 MW), Model Children's Homes (4 MW), DHQ Hospitals (3 MW), and Police Stations in Punjab (1.15 MW), alongside large-scale industrial and commercial projects with leading private sector clients. Currently, BSECW is proudly executing the Chief Minister Punjab Free Solar Panel Scheme (8.7 MW, Rawalpindi), along with many other government solarization projects across Punjab. These landmark initiatives are empowering communities, reducing energy costs, and promoting sustainability at scale. Recently, BSECW was also honored with an Award and Shield at the 2nd International Solar Power Conclave & Awards 2025, recognizing its excellence in driving solar adoption in Pakistan. Backed by a dedicated team of qualified engineers, advanced design tools, and partnerships with Tier-1 global manufacturers, BSECW ensures efficient, reliable, and cost-effective solar solutions. The company is also among the pioneers in innovative financial models, including partnerships with banks under SBP refinancing schemes and Power Purchase Agreements (PPA), enabling broader access to solar energy.

With a vision to revolutionize Pakistan's energy landscape, BS Engineering & Construction Works continues to drive the transition towards a clean, green, and sustainable future.



## SUN LIFE SOLAR PVT LTD

Sunlife Solar is the first company manufacturing A-Class photovoltaic (PV) modules and is recognized as one of the largest manufacturers in Pakistan. Our factory, covering about 174,240 square feet, is equipped with advanced international-standard production lines. Our PV modules are manufactured on state-of-the-art international standard plant having a capacity of 300MW per annum. We produce Mono-crystalline and Poly-crystalline PV modules in a wide range of sizes, from 50 Watts to 450 Watts. Quality Assurance is our motto and the product at each stage of production goes through detailed quality inspections and checked on state-of-the-art Electro-Luminance (EL) testing machine five-sets automatic soldering machine. Our PV modules are tested, as required basis, on IEC 61215 (10.1) and Certified as Top Class by PCRET, Ministry of S & T, and Government of Pakistan.

**Upcoming Projects:** Our upcoming major projects, which will further strengthen our vision of a self-reliant and energy-secure Pakistan. Sunlife Solar Co. (Pvt.) Ltd. is embarking on two groundbreaking initiatives.

1. Local manufacturing of Lithium Batteries, designed to provide advanced and reliable energy storage solutions for households and industries.
2. Launch of Electric Vehicles (EVs) by next year, marking a significant step towards promoting clean, green, and sustainable transportation in Pakistan.

These initiatives will not only diversify our portfolio but also accelerate the country's transition towards renewable energy and eco-friendly mobility.





### DYNESS DIGITAL ENERGY TECHNOLOGY CO., LTD.

Dyness, founded in 2017, is a global pioneering energy storage solutions innovator. Relying on advantageous technology and robust product R&D capabilities, Dyness has established a comprehensive product portfolio for full scenarios, including C&I and residential energy storage throughout the entire lifecycle. With its global headquarters in Suzhou, China, Dyness has provided safe, reliable, and high-quality products and services to 500,000+ users in 100+ countries and regions. At Dyness, customer satisfaction is always Dyness' top priority. Aligned with its mission to reduce the Earth's temperature, Dyness is collaborating with 90+ global brand partners to reduce the cost of renewable energy usage for users. As the pace of global energy transition accelerates, Dyness is committed to promoting sustainable development on a global scale through commercial deepening. It strives to work alongside the industry, market and society to build a low-carbon future worldwide.



### CROWN SOLAR ENERGY

Crown Solar Energy, an initiative of Crown Group, entered Pakistan's renewable energy sector in 2022 with a vision to transform the nation's energy landscape. Building on more than 20 years of Crown Group's engineering expertise in the automotive industry, Crown Solar delivers the same tradition of trust, quality, and performance to clean energy solutions. What sets Crown Solar apart is its focus on reliability, customer satisfaction, and lifelong value. With 25-year product warranties, 30-year linear power output guarantees, and a 10-year open replacement warranty on its Elektra Boost Battery, the company offers unmatched confidence and support. Its products meet Japanese Standard benchmarks, using Tier 1 N-Type solar modules built for efficiency and durability in Pakistan's toughest climates. The portfolio includes premium solar panels such as Vista X, Tiger, and N-Type modules, as well as advanced solutions like the Nexus Hybrid Inverter, Yorker Hybrid Inverter, Pridor Solar Pump Inverter, and the Elektra Boost Battery. Each product is backed by dedicated after-sales service, ensuring smooth installation, maintenance, and long-term performance. From homes and industries to agriculture and education, Crown Solar Energy is delivering clean, stable, and affordable energy while shaping a greener Pakistan.



### MEEZAN BANK LTD

Meezan Bank, Pakistan's best bank and the first and largest Islamic bank, is a publicly listed company with a paid-up capital of Rs. 18 billion. It is one of the fastest growing financial institutions in the banking sector of the country. With its Vision of establishing 'Islamic banking as banking of first choice ...' – the First Islamic Bank commenced operations in 2002, after being issued the first-ever Islamic commercial banking licence by the State Bank of Pakistan. The Bank provides a comprehensive range of Islamic banking products and services through a retail banking network of more than 1000 branches in more than 300 cities of the country. Backed by a state-of-the-art T-24 core banking system, the branch network is supported by 24/7 banking services that include over 950 ATMs, VISA and MasterCard Debit cards, a Call Center, Internet Banking, Mobile Application and SMS Banking facility. The Bank operates strictly under the principles of Islamic Shariah and is well-recognized for its product development capability, Islamic banking research and advisory services. In order to ensure strict Shariah-compliance in all its products and services, the Bank has established a dedicated Product Development and Shariah Compliance department that operates under the supervision of the Bank's in-house Resident Shariah Board Member and a Shariah Board comprising of internationally renowned Shariah scholars.



### AIKO SOLAR TECHNOLOGY CO. LTD

AIKO is a global leader in new energy technology, pioneering innovation in the photovoltaic (PV) industry for over 16 years. With a mission to empower humanity's transition toward a carbon-free era, AIKO continuously drives breakthroughs in solar technology, setting new benchmarks in efficiency, reliability, and sustainability. The company specializes in high-efficiency solar cells, advanced All Back Contact (ABC) modules, and scenario-based PV solutions tailored to residential, commercial, industrial, and utility-scale applications. With cumulative shipments exceeding 170 GW, AIKO is the trusted choice of high-end customers worldwide. Guided by a strong R&D foundation, AIKO operates three global research centers and invests over 20% of its resources in innovation, supported by 1,000+ patents and collaborations with leading laboratories. Its ABC technology, ranked No.1 globally in commercial module efficiency since 2023, redefines industry standards with record-breaking performance and ultra-safe design. AIKO also leads in sustainable manufacturing, with multiple zero-carbon smart factories and certifications in green production. The company actively contributes to global energy transformation through strategic projects, including zero-carbon cities, islands, and transport initiatives. With over 10,000 employees and operations across 20+ countries, AIKO continues to deliver solutions that maximize energy conversion, minimize carbon impact, and power progress worldwide.





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### TARIQ ELECTRIC PRIVATE LIMITED

Tariq Electric (Pvt) Ltd is an engineering-based organization XPERT IN SWITCHGEAR AND POWER NETWORK



ARCHITECTURE with a strong operational presence across numerous Commercial & Industrial Projects across Pakistan. Late Mr. Tariq was the co-founder of the company. Founded in 1993 with a modest start, Tariq Electric (Pvt) Ltd has seen constant growth in its product range and client base.

We offer a wide range of Electrical Distribution Solutions including Switchgear, Transformers, Cable Management Systems and Solar PV Power Systems.

We have one of the largest switchgear manufacturing plants having a 90,000 Sq feet area. Our state-of-the-art production facility, innovative solutions, and strict quality policy enable us to deliver world-class switchgear solutions in accordance with relevant IEC and National standards.

**VISION:** To enable growth through seamless integration of advanced electrical technologies. We are dedicated to fostering advancement through the seamless integration of state-of-the-art electrical technologies, catalyzing growth and elevating the standards of technological integration.

**MISSION:** Our mission is to prioritize customer satisfaction, resource efficiency, and uphold corporate values. Our commitment includes promoting good governance, maintaining a secure work environment, and embracing social responsibility.

### DECENT SOLAR

Founded in 2019 by Mr. Daniyal Raheed, Decent Solar is dedicated to delivering affordable, high-quality solar solutions tailored to the unique needs of homes, businesses, and industries.



Our mission is to bridge the gap between customers and solar energy providers by offering cost-effective, reliable, and sustainable solar power systems. We pride ourselves on exceptional service—from customized system design to professional installation and ongoing after-sales support—to ensure complete client satisfaction.

At Decent Solar, we aim to revolutionize the solar industry by setting new standards in quality, reliability, and customer care. We envision a future where solar energy becomes the primary source of power, reducing dependence on fossil fuels and minimizing environmental impact.

**What We Do:** Residential Solar Solutions – Efficient, affordable systems designed to power homes sustainably.

Corporate & Commercial Solar Services – Scalable solutions for offices, industries, and large-scale projects.

Installation & Maintenance – End-to-end support, from consultation and design to installation and long-term servicing.

**Our Commitment:** We believe that every step toward renewable energy makes a difference. By adopting solar solutions, our clients not only reduce costs and improve efficiency but also contribute to a cleaner, healthier planet.

At Decent Solar, we don't just install solar systems—we create sustainable energy solutions for a brighter future.

### PROSUME SOLAR ENERGY

Prosume Solar Energy (Pvt) Ltd is a leading renewable energy solutions provider in Pakistan, dedicated to making clean and affordable solar energy accessible for all. Guided by our vision of “Energy for the People, by the People,” we empower individuals and businesses to achieve energy independence while contributing to a sustainable future. With over 500 successful projects across 10 cities, delivering more than 2.5 MWs of installed capacity, Prosume has earned a reputation for reliability, quality, and customer-centric solutions. Our expertise spans residential, commercial, industrial, and agricultural sectors, offering services that include On-Grid, Off-Grid, and Hybrid Solar Systems, Net Metering, Agricultural Solar Solutions, and Solar Financing options. We are certified by NEPRA (AEDB), PEC, and SECP, ensuring compliance with the highest industry standards. Our approach combines innovation, sustainability, and transparency, from initial consultation and system design to installation and after-sales support. At Prosume, we believe in building strong partnerships, delivering optimal ROI, and reducing carbon footprints through cutting-edge solar technology. By transforming energy consumers into “prosumers,” we are committed to driving Pakistan towards a greener, self-reliant future.



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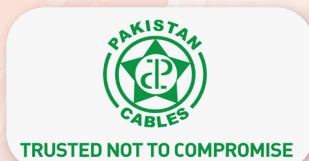
Subscription Charges from 2024 will be **Rs. 6,000** including Courier Charges for 1 Year



## PAKISTAN CABLES LIMITED

Founded in 1953, Pakistan Cables Ltd. is the country's premier and most reputable cable manufacturer in Pakistan.

During 2010-2017, Pakistan Cables remained an affiliate of General Cable, a Fortune 500 company with a global presence of 57 plants in 26 countries. Currently, Pakistan Cables has an exclusive technical collaboration with CTC Global Inc., US. The Company is ISO 9001:2015, ISO 14001:2015 and ISO 45001 with certifications from KEMA Netherlands, CNC Germany, Bureau Veritas, TÜV SÜD, TÜV Rheinland, TÜV Austria, UKAS, BSI, USACE, PSQCA and PCSIR. Furthermore, Pakistan Cables is also the first wires and cable manufacturer in Pakistan to provide KEMA certified LSZH Power Cables. The company is a member of the Amir S. Chinoy Group, one of the largest and trusted industrial groups of Pakistan. Exporting to 40 markets, Pakistan Cables has the largest geographical footprint globally, across all major continents. As winners of the prestigious FPCCI Export Trophy consecutively for seven years since 2016, Pakistan Cables is leading the wires and cable exporter from Pakistan. Recently it expanded its operations to a new 42-acre, purpose-built, state of the art manufacturing facility in Nooriabad, Sindh. It unveiled Pakistan's first 69 kV CCV line for MV cables earlier in 2023 based on superior German technology at its new factory in Nooriabad, Sindh.



## SOLAR MASTER

Founded in 2013, Solar Master is one of Pakistan's leading solar energy solution providers, with a strong presence in Multan and across the country. Over the past decade, we have built a reputation for excellence by delivering megawatt-scale installations, cutting-edge solar products, and complete energy solutions to industries, businesses, and households.

We are proud to be the official partner of FoxESS in Pakistan, offering solar inverters and batteries with up to 10 years full product replacement warranty, ensuring risk-free investment for our clients.

Our mission is simple: to provide reliable, clean, and cost-effective solar energy that empowers individuals and organizations while contributing to a sustainable future.

**Our Vision:** To lead the renewable energy revolution in Pakistan by providing innovative solar solutions that reduce dependence on traditional energy sources, minimize carbon footprints, and create a greener tomorrow.

### Our Mission:

- Deliver high-quality solar products and services with unmatched customer satisfaction.
  - Expand access to clean and affordable solar energy across Pakistan.
- Build long-term partnerships with businesses and industries for sustainable growth.



## INTERFACE ENGINEERING & CONSTRUCTION PRIVATE LIMITED

Interface Engineering & Construction (Pvt.) Ltd. (IEC) is a Pakistan-based turnkey provider delivering telecom, renewable energy, MEP, construction, instrumentation, and renovation solutions since 2006. Evolving from Interface—A Telco Resource Firm and incorporated as a private limited company in 2019, IEC couple's deep telecom heritage with a fast-growing Solar Power Systems business.

Our teams execute end-to-end design, build, commissioning, and O&M, backed by in-house PV design using Helioscope, SketchUp, and 3D structure modeling.

We practice ISO 9001, ISO 14001, ISO 45001, and OHSAS 18001 frameworks and hold PEC and SECP registrations.

With a strong footprint in Sindh and Baluchistan and support offices in Lahore and Islamabad, IEC has delivered 5,800+ telecom sites and nearly 30 MW across industrial, commercial, and residential solar portfolios.

Our HSE-first culture emphasizes risk assessment, training, and zero-incident execution.

Clients across telecom, industry, healthcare, banking, and retail rely on IEC for rollouts, upgrades, audits, maintenance, and customized training in HSE, transmission, core networks, FTTH, and solar PV.

Guided by integrity, innovation, and customer success, IEC delivers efficient, timely, quality solutions that create sustainable value nationwide. We partner with clients as a single point of accountability from feasibility to lifecycle support, backed by experienced engineers and logistics capability.



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## ACM GROUP OF INDUSTRIES



ACM is a conglomerate company which is collectively committed to exhibiting excellence and innovation in every situational manner. The ACM Group comprises dynamic establishments that contribute diversely in their respective domains and more, including:

- Pakistan Accumulators (Pvt) Ltd.
- ACM Hi-Tech Engineering
- ACM Plasco International
- ACM Mines & Minerals
- MTM Developers
- MTM Traders
- ACM Refineries

The ACM Group thrives in advancing, sustaining and expanding by concurrently maintaining the principles of integrity, motivation to innovate and fulfilling the social responsibility. ACM is dedicated to fostering prosperity across society, nurturing the environment, and contributing to the global economy. Our diversely extensive experiences range of experiences empowers us to envision and achieve the highest standards of excellence.

Join us to shape a more promising future through exploration, transformation, and progress. ACM Group is not just a chain of companies, instead it is the foundation of visionaries who strive to thrive towards a better future every day.

## WORLD WIDE CABLES (PVT) LTD

Founded in 2001 by Mian Muhammad Kashif, Worldwide Group has grown into a leading force in Pakistan's cable industry. Starting with instrument leads, the company expanded into flexible cables and battery leads, quickly becoming a market leader through quality and innovation. By 2008, it added solar cables and house wiring to its portfolio, distributed nationwide. Driven by its philosophy to "do the un-doable," Worldwide began manufacturing products previously imported, including Ethernet cables (CAT-5, CAT-6, CAT-6a) and RG-59 CCTV cables. Later, it advanced into Optical Fiber Cables for PTCL's telecom networks, reinforcing its role in Pakistan's digital infrastructure. In 2020, all operations were consolidated under Worldwide Cables (Pvt) Ltd.



With state-of-the-art facilities at Sundar Industrial Estate, Lahore, the company uses advanced imported machinery, 99.99% pure copper, premium polymers, and rigorous testing standards. Continuous R&D and workforce training ensure uncompromising quality. Safety and sustainability remain core, with LSZH insulation for house wiring and XLPO upgrades for solar cables.

Today, Worldwide manufactures a complete range of Power, Solar, Ethernet, Fire Alarm, CCTV, and Optical Fiber Cables. Recognized with the Technical Excellence Award 2025 for its solar cables, the company continues to drive innovation, supporting Pakistan's solar, networking, and power industries.

## NIPPON ENERGY



Nippon Energy has evolved from an EPC and solar development company into

a comprehensive manufacturer of renewable energy solutions. We now specialize in the production of HJT and TOPCon solar PV panels, lithium batteries, and solar inverters.

Our manufacturing process is driven by cutting-edge technology and a commitment to quality. We utilize state-of-the-art equipment and adhere to stringent quality control measures at every stage of production.

### Our Vision

Empowering a Clean, Intelligent Energy Future. At Nippon Energy, our vision is to lead the global transition to sustainable, smart energy by delivering cutting-edge solar, storage, and power electronics technologies. We aim to redefine how the world produces, stores, and secures energy—driven by AI, innovation, and the highest standards of engineering excellence.

### Our Mission

Innovate. Integrate. Inspire.

Design and manufacture AI-powered inverters, next-generation solar modules (HJT & Perovskite), and high-performance lithium battery systems.

Embed intelligent software, security (blockchain), and R&D into every solution we deliver.

Enable energy independence and reliability for industries, communities, and nations through scalable, integrated clean energy ecosystems.

Continuously push the boundaries of renewable energy through relentless innovation and research.

By building facilities that are sustainable and introducing cutting-edge latest technology, we improve and optimize energy utilization through eco-friendly and effective solutions.

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