

SOLAR PAKISTAN 2022: A new hub of inspiration and innovation for Pakistan's Solar industry opens successfully



Solar power is the key to a clean energy future. Every day, the sun gives off far more energy than we need to power everything on earth. That's why the world is investing heavily in solar plants. Similarly, Solar World is setting new records, every third power plant unit installed in 2020 came from solar, confirming its dominance among all newly installed power generation technologies, reaching a 39% global share. The global solar power sector added 260 GW in 2020 during the COVID period (IRENA).

The current growth rate is 18% whereas the anticipated growth in 2022 is 25%. The global installed capacity for solar power will be increased by 203 GW in 2022 and by the end of 2025, it will reach 2.1 TW.

SOLAR PAKISTAN is the only exhibition in Pakistan that provides a platform for players from renewable energy to expand their portfolio by networking with other renowned companies. The trade show will have the participation of more than 100 leading national and international companies which will showcase their state of the art technologies and solutions. This will create awareness and encourage our industry to implement best practices, resulting in improved processes and production.

SOLAR PAKISTAN is established as the country's leading exhibition with its scale setting records year by year. The trade show will be the biggest gathering of key industry leaders, top

government officials, manufacturers, suppliers, traders & distributors. The trade show is supported and will have the presence of top management of the National Electric Power Regulatory Authority (NEPRA), Alternative Energy Development Board (AEDB), National Energy Efficiency & Conservation Authority (NEECA), and Pakistan Solar Association (PSA).

Pakistan's estimated solar potential is 100,000 MW. China is taking lead in Solar PV World and has an installed capacity of 205GW followed by the USA and Japan have installed capacities of 76GW and 62.3GW respectively. After solar panels have been installed, operational costs are quite low compared to other forms of power generation. Fuel isn't required, and this means that solar power can create large amounts of electricity without the uncertainty and expense of securing a fuel supply. There's no denying the importance of solar energy. The return on investment of going solar

is highly valuable, not just financially, but for the sake of public health and environmental sustainability. With every passing year, solar energy becomes more popular for home and business owners as people learn its many benefits, and as installation costs decrease.

The speedy development efforts of the global solar industry will help in complying with the Paris Agreement for limiting global warming to well below 2°C and pursuing efforts to limit it to 1.5°C.

There are multiple key benefits of renewable energy for people and the planet. Like any human activity, all energy sources have an impact on our environment. Renewable energy is no exception to the rule, and each source has its trade-offs. However, the advantages over the devastating impacts of fossil fuels are undeniable: from the reduction of water and land use, less air and water pollution, less wildlife and habitat loss, to no or lower greenhouse gas emissions. ♦

Message:

Saleem Khan Tanoli CEO; FAKT Exhibitions (PVT.) LTD.

FAKT Exhibitions has once again set an example by organizing Solar Pakistan – Country's biggest and only dedicated solar energy exhibition and proved to be Pakistan's leading exhibition organizing company.

Solar Pakistan has been persistent with the success of this remarkable trade show that carries strength to utilize the renewable energy sources as an efficient alternate to bridge the gap between power generation and consumption.

Solar Pakistan provides a platform to showcase latest technology and innovative solutions in renewable energy industry, presenting intelligent integration of energy systems.

This exhibition provides an ideal opportunity to network with industry stakeholders, leaders and direct decision makers for



productive business leads and knowledge sharing. I am glad that Solar Pakistan Exhibition is supported by leading Government Authorities and am definite that we will continuously grow and take this event forward with full commitment and devotion. ♦

ESSENTIAL CONTACTS

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CEO, FAKT Exhibitions (Pvt.) Ltd.

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Organizer



Message:

The AEDB has started working on the exploration of the abandoned potential of renewable energy projects; Shah Jahan Mirza, CEO. AEDB



The Government of Pakistan is endeavoring to bring in transformational changes in power system in order to ensure affordability, sustainability, energy security and energy access for all. The optimal utilization of indigenous energy resources in amongst the top priorities of the Government. In cognizance of the global climate change scenarios and considering Pakistan's commitments toward Climate Change mitigation, Pakistan is acting as a responsible country trying to limit its GHG emissions despite being amongst the lowest emitters. Keeping this in view, the current Government has taken serious measures to harness

the available Alternative & Renewable Energy (ARE) potential of the country to diversify its energy mix and ensure energy security and sustainable development in the country.

Pakistan is naturally gifted in abundance with the renewable resources. Government of Pakistan is taking serious measures to harness the available ARE potential of the country to diversify its energy mix so as to ensure energy security, affordability, energy access to all and sustainability. As per its mandate, AEDB has been pursuing the promotion and development of ARE technologies for power generation in the country, acting as a one-window facilitator for IPP based proj-

ects. The efforts of AEDB have materialized in the form of private investment not only in large scale ARE based power generation projects but also tapping the potential of off-grid ARE applications and distributed generation. More than 2100 MW of different ARE based power generation projects are operational which translate into a share of more than 5% in the total installed capacity of the country with several other projects under construction.

ARE based Net Metering is also being promoted in domestic, commercial, industrial and agriculture sectors. The number of net-metering based systems has surpassed 21,000 installations with an installed

capacity of more than 360 MW.

GOP has set the target of achieving 60% share of its generation capacity through indigenous clean energy technologies (ARE & Hydro) by 2030. The development of ARE based projects will now be carried out through transparent and open competitive bidding process, attracting participation of international private sector investors. The Government is also taking initiatives to utilize ARE resources for provision of electricity to off-grid areas and water pumping. Moreover, active participation of private sector is being encouraged in other market segments including business-to-business (B2B)

electricity sale/purchase and third party electricity sale using wheeling, net metering, mini/micro grids as well as in local manufacturing of ARE equipment to support the Government's vision of achieving higher share of indigenous clean energy in the overall generation mix. It is envisaged that the creation of the competitive electricity trading market in the near future will provide the necessary stimulus to ARE based distributed generation installations in the country.

We congratulate FAKT Exhibitions for holding SOLAR PAKISTAN - 10th International Renewable

Energy Exhibitions and Conference. This is a major event as it provides opportunities and suitable platforms to all the stakeholders from the industry, public sector, investors and academia to interact with each other and to address the challenges and barriers faced by the industry and this supported by AEDB. The efforts of FAKT Exhibitions for this initiative are commendable and we are hopeful that this exhibition and conference will play its role in the promotion and development of ARE technologies in the country. ♦

Message:

NEPRA has a mandate to provide affordable, reliable, and sustainable energy to Pakistan; Tauseef H. Farooqi, Chairman NEPRA

I am humbled to be invited by FAKT Exhibitions (Pvt.) (Ltd.) as they are organizing an exhibition on solar energy, named Solar Pakistan, which is the 10th Pakistan renewable energy exhibition and this is going to be arranged from 26 to 28 March in Lahore, Expo Center. We all want to fix our country and for that, we have to fix the economy, and if we want to fix the economy, we have to fix the industry, and for that, we have to bring down the cost of doing business. The best way of

doing that is by inducting as much renewable energy which is the cheapest, cleanest and the greenest energy possible.

As we all know that NEPRA is the power regularity authority of Pakistan with a mandate to provide affordable, reliable, and sustainable energy to the citizens of Pakistan, and for that, we are ready to induct the cheapest electricity possible which is also the cleanest and the greenest. So we intend to induct the renewable

energy to bring down the prices of electricity.

I am extremely happy that international renewable energy developers and investors are exhibiting their products in this exhibition, and are also joining hands with the local companies as while they will be exhibiting in this conference.

So I'm very upbeat about it that the local partners will get the exposure of International Developers and will work side by

side for the development of the power industry in Pakistan. So I welcome both national and international companies and I myself look forward to visiting the exhibition and seeing you all there. ♦



Message: Mian Nauman Kabir, PRESIDENT LCCI

It is a pleasure to express my views on SOLAR PAKISTAN - 10th International Renewable Energy Exhibition and Conference being organized by FAKT Exhibitions (Pvt.) Ltd. from 26th - 28th March 2022 at Expo Centre Lahore. It reflects a positive sign for the Renewable Energy Industry.

LCCI highly praises such Business & Trade Exhibitions which bridge the gap between potential seekers and manufacturers. We are living in the competitive world of economies of scale

that work for business sense and strategic planning for future demands & supply scenario. Pakistan is a developing country; therefore, it needs new and innovative means of energy production in order to acquire maximum output in minimum time which can enhance the quality of products we export to the rest of world and can meet the needs of local market of Pakistan as well.

We are fully committed to provide our maximum support to the organizers FAKT Exhibitions (Pvt.) Ltd.,



and welcome the exhibitors and visitors. We are sure that this exhibition will gain the confidence of investors in Pakistan renewable energy market. ♦

Shenzhen Growatt New Energy Co., Ltd.

Established in 2010, Growatt is a global leading PV inverter and battery manufacturer. According to IHS Markit, Growatt is the world's No.1 residential inverter supplier and ranks among the global top 5 suppliers of commercial inverters. For hybrid inverters, Growatt is the world's second largest supplier according to WoodMackenzie. ♦



Ziewnic Solar Energy

ZIEWNIC solar panels and inverters approaches reliable products with the excellence and outstanding services. We suggest ideas as per the need of customers in order to meet global demands and challenges. The accessibility of quality product ranges from residential, commercial and industrial in order to meet the requirement level of consumer nationwide. The availability of products has vast range from lower to

bigger level to satisfy the customer's wants and demands. The initiative step to flourish the economy with the idea of sustainable development and promote progress of the country with eco-friendly environment.

A long with quality products, teamwork coordination and collaboration is considering the backbone or powerful weapon to leads and earn the goodwill of company. The sincerity

and devotion of the employees has rooted in the national market. ZIEWNIC's first priority is satisfying the customer needs with quality products and customized solution as per the requirement of the customer.

Our responsibility is not limited to the boundaries of selling products but earning the consumers' confidence by providing technically proficient and implementable solutions. ♦



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The heavily priced electricity will now be replaced by a very low cost or minimal amount of alternate energy source; **Zaigham Abbas Rizvi.**

As we all know, there are many low-cost affordable and renewable energy options now available for energy empowerment of affordable housing for all. Solar energy is the most common and fastest growing alternative energy solutions, since it offers solar options for retail as well wholesale housing programs. I am pleased to see that FAKT Exhibitions (Pvt.) Ltd. has organized the Solar Pakistan Exhibition at Expo Centre, Lahore from 26th to 28th March. This exhibition will provide an

excellent opportunity to all stakeholders of the solar industry - the solar power providers, material providers, the solar power producers on large scale as well as the ultimate clients.

It is the goal and the aim of FAKT's Solar Exhibition, to promote solar energy solutions in Pakistan more reliable and cost effective to reduce Pakistan's reliance on energy based on imports. This exhibition is also a platform to ensure continuous discussions on new, or improving

on old, mechanisms for providing sufficient energy to households throughout the day such as rooftop solar solutions.

I must say that it is a great opportunity and we all should do our level best to promote this SOLAR PAKISTAN exhibition as it is a wonderful platform for both visitors and exhibitors. I am also grateful that FAKT Exhibitions are giving their level best by periodically organizing such exhibitions to provide opportunities for our industries. ♦



Inverex Power Solution

INVEREX is Pakistan's largest solar-based company. It imports many solar products including solar inverters, batteries, solar panels, solar street lights and offer customized solar solutions.

We provide services to residential homeowners, large and small industries and government entities in Pakistan. Every year launch upgraded state-of-the-art

and reliable solar products in the market. INVEREX is certified and authorized for sales and after sale services all across Asia and registered company under AEDB to provide service of solar PV net metering systems.

Customer service is our first priority and our main concern to make them satisfied and to provide the best and cost-effective solutions to valued clients,

that's why today Inverex has 27 customer care centers available nationwide, where we have set up modern In-house Comprehensive R&D, comprising of a team of highly qualified and experienced professionals. The R&D is fully equipped with latest design software's, development hardware's with testing and field condition simulation equipment. ♦



INVEREX SOLAR ENERGY

SERIES VEYRON II
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NitroX HYBRID INVERTERS
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Fronius
5KW TO 100KW

NitroX ON-GRID INVERTERS
6KW TO 100KW

YUKON SOLAR INVERTER
3.2KW - 5.2KW

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东劲概括 Company Introduction

Founded in 1993, Dongjin Group is leading enterprise in China's new energy power battery industry. It has become large-scale industrial group after over 20 years growth which mainly focus on manufacturing environmental protection power batteries for electric vehicles. It integrates the research, development, product and sales of tricycle water batteries, automobile batteries, motorcycle batteries, UPS batteries and wind energy solar energy storage batteries, as well as the retrieving and recycling of waste batteries. Dongjin Group has been committed to exploring the global market.

At present, the group has completed the going-out transformation from products to manufacturing. Nowadays Dongjin Group has become the pioneer of leading the global layout of China's battery industry and had setup six manufacturing Bases in Pakistan, Bangladesh, India, Brazil and Mexico.

东劲集团是中国新能源动力电池行业的领先企业，始建于1993年，经过20年的发展，现已成为以电动车环保动力电池制造为主，兼三轮水车电池、汽车电池、摩托车电池、UPS电池、风能太阳能储能电池的研发、生产、销售，以及废旧电池回收和循环利用等为一体的大型实业集团。东劲集团一直致力于开拓全球市场，目前完成了从产品走向制造走出去的转变，先后在5个国家建立了生产基地，是中国蓄电池行业全球化布局的先行者和领导者。



**POWER THE WORLD
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Sungrow Power Supply Co., Ltd.

Sungrow Power Supply Co., Ltd. ("Sungrow") is the world's most bankable inverter brand with over 224 GW installed worldwide as of 2021. Founded in 1997 by University Professor Cao Renxian, Sungrow is a leader in the research and development of solar

inverters, with the largest dedicated R&D team in the industry and a broad product portfolio offering PV inverter solutions and energy storage systems for utility-scale, commercial & industrial, and residential applications, as well as internationally recognized

floating PV plant solutions. With a strong 25-year track record in the PV space, Sungrow products power installations in over 150 countries. Learn more about Sungrow by visiting www.sungrowpower.com



Jntech (Pvt.) Ltd.

JNTECH PAKISTAN established in 2014 is a Subsidiary Company of JNTECH RENEWABLE ENERGY CO.LTD China. Jntech Renewable Energy is an international High-tech enterprise which integrate intelligent power electronics products R&D, manufacture, sales and services with branches in different coun-

tries and regions. Relying on Chinese famous technology Jntech owns more than 60 solar patents; Jntech developed solar off grid inverters, solar pumping inverter, solar household energy storage inverter and related system are widely used in more than 60 countries.

Jntech Pakistan deals in solar off grid inverters, solar pumping inverter and solar all in one solution. At Jntech Pakistan we provide complete after sale services and warehousing facility. Providing the best Customer Service and quality is our belief and motto. We value our clients and provide them with cost effective solutions.



Elum Energy

Elum Energy is an energy and automation company that provides cost-effective monitoring and control solutions for hybrid energy systems. These solutions can adapt to a wide spectrum of use.

Elum Energy provides energy management systems (ePowerControl) and a SCADA platform (ePowerMonitor) for solar energy, storage, and other distributed resources.

The solutions are suitable for solar energy production installations coupled with diesel generators and/or energy storage.



Power plants have a capacity of 10 KW to 20 MW and are usually installed on commercial and industrial buildings with low grid

availability or supplying an off-grid town and/or isolated island. Our solutions equip sites in more than 60 countries. ♦

DONG JIN POWER



Founded in 1993, Dongjin Group has exported plenty of products to more than 50 countries and regions including Europe, North America, South America, Asia, the Middle East, and Africa. The brands of "DONGJIN" and "KINFON" batteries are extremely prominent in Syria, Lebanon, Turkey, Israel, and other Middle East countries. Besides, there's a battery industry in Bangladesh, winning an absolute share of the battery market.

In 2016, Dongjin Group formulated a new plan to convert its marketing strat-

egy. At the same time, Dongjin Group paid equal attention to the domestic market and overseas. In the domestic market, Dongjin Group would like to regain the domestic market share and provide excellent services for customers with the measures of setting up a first-class sales team and promoting the products quality control and research and development.

Overseas, Dongjin Group has invested more than 3 billion Yuan to set up the largest battery production base in Bangladesh with more than 1,000 workers. The first phase of the plant

covers an area of 70,000 square meters, which was officially put into operation at the end of May 2018. The second phase of the plan covers an area of about 90,000 square meters and the third phase of the project is under construction. Dongjin Group has subsidiaries in Bangladesh such as Dongjin Longevity King Battery Manufacturing Co., Ltd., Dongjin Electric Vehicle Manufacturing Co., Ltd., and Dongjin Industrial Park. Since then, the status of "Dongjin" brand will not be shaken. ♦

LONGi



LONGi leads the solar PV industry to a new height with product innovations and an optimized power-cost ratio with breakthrough monocrystalline technologies. LONGi supplies more than 30GW of high-efficiency solar wafers and modules worldwide yearly, about a quarter of global market demand.

LONGi is recognized as the world's most valuable solar technology company with the highest market value. Innovation and sustainable development are two of LONGi's core values.

They are dedicated to maintaining leadership in the manufacture of monocrystalline silicon products, delivering higher efficiency

to the global photovoltaic industry. They are the loyal partner of the photovoltaic industry, creating greater value for the customers' investment. They are devoted to driving the development of the photovoltaic industry, powering into a green world for future generations. ♦

Greenage

Green Age is a relatively new Solar Distribution Company, but indeed the fastest growing one, Pakistan has seen still now. In the shortest time we have become the biggest PV Distribution Business in Pakistan.

Green Age started the business with Premium Petroleum (PVT) LTD. as partners, where Green Age works as a front end brand name, and Premium Petroleum works as an import and distribution



company, using the Premium Petroleum's already established distri-

bution expertise and financial strength for a faster growth. ♦

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**11th International
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26th March 2022
Hall 1, Expo Centre
2:00 pm - 5:00 pm

Organiser



Mr. Saleem Khan Tanoli
CEO
FAKT Exhibitions (Pvt.) Ltd.

Moderators



Mr. Waqar Moola
Member Executive Committee
Pakistan Solar Association



Dr. Naveed Arshad
Founding Member
LUMS Energy Institute

Session 1



Mr. Zaigham Rizvi
Chairman
Private Market Working Task Force



Muhammad Zakir Ali
CEO
Invesco Solar Energy



Rana Abbas
Chairman
Pakistan Solar Association



Shahid Qadir
CEO
Wagon Green Light Energy



Dr. Naveed Arshad
Founding Member
LUMS Energy Institute

Session 2 - Panel Discussion: Role of Policy Makers and Regulatory Bodies for Solar Industry



Mr. Tauseef H. Farooqi
Chairman
AESPA



Mr. Shah Jahan Mirza
CEO, AESPA
Managing Director, TITB



Mr. Naveed Arshad
Vice Chairman
LDA

Session 3 - Panel Discussion: Role of Financial Institutions for Renewable Energy



Mr. Manzoor Sultan
Advisor to VC LDA in
CISF Executive Council
Green Energy and
Sustainable Initiatives



Mr. Shahid Malik
Head Products Small
Medium Enterprise
Bank Alfalah Limited



Mr. Imran Ahmad
Additional Director - Development
Finance Support Department
State Bank of Pakistan



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