



# YOUR ENERGY PARTNER

## SPONSORED COMPANIES



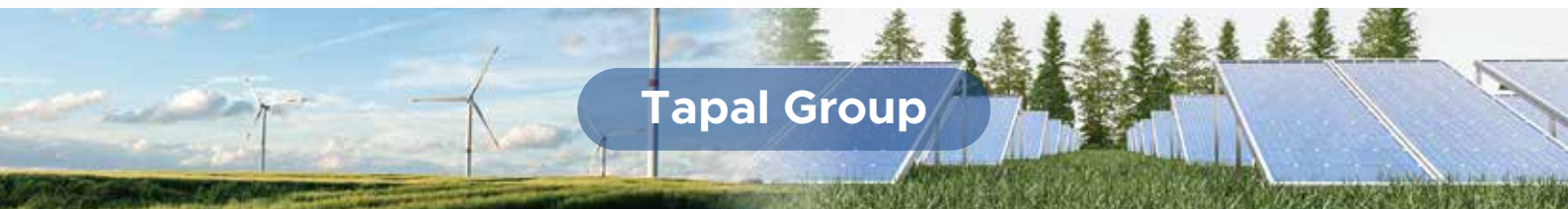
### Akhtar Group

Akhtar Group is one of the leading business conglomerates in Pakistan. It was founded by Mr. Akhtar Saeed Sheikh in 1968. The group is engaged in a wide and diverse range of businesses, dealing in paper cones, textile machinery, textile garments, sugar mill equipment, auto/steel industry marketing, denim, jeans, and other garment production, dairy farming, and processing, and so on. The group is particularly known for Akhtar Textile, Indigo Textile, and Dayfresh Milk, one of the most popular products of Dairyland.



### Ismail Group

Since launching its flagship brand, CandyLand in 1988, Ismail Group has established itself as the largest confectionery manufacturer in Pakistan. Over the years, it has expanded horizontally by launching brands such as Bisconni (biscuits and cookies) and SnackCity (chips, peanuts, etc.), as well as vertically through Astro Plastics, which manufactures packing and plastic films. Currently, Ismail Group is also the largest confectionery exporter in Pakistan. Ismail Group exports its products to more than 40 countries across in North America, Europe, Australia, Africa, Far East, and the Middle East.



### Tapal Group

Tapal Group is one of Pakistan's leading business groups with a diversified portfolio of businesses and investments in Industrial Engineering and Construction, Fertilizers, and the Power sector. The group has been in existence since 1867. Since then, the group has entered several successful business ventures. Tapal Group is also considered to be one of the pioneers of the renewable energy sector in Pakistan. Currently, the group comprises of Tapal Energy (Pvt.) Limited, Ameerjee Valleejee & Sons (Pvt.) Limited, Foundation Wind Energy II (Pvt.) Limited and Tapal Enterprises (Pvt.) Limited.





# ACT GROUP

The ACT Group is a consortium of three large groups, namely

**Akhtar Group**

**Ismail Industries**

**Tapal Group**

It has been principally engaged in diverse businesses of Wind, Solar Power and Engineering Services. The group projects are operational under the names of ACT Wind, ACT 2 Din Wind, ACT Solar, ACT 2 Solar and ACT Engineering Services (ACTES).

ACT Wind is a **30MW** wind power project situated in Jhimpir, Sindh.

**ACT Wind**



**ACT 2 Din Wind**



ACT2 Din wind is a 50MW wind project funded by IFC and DEG. The project reached financial close (FC) on Nov 18, 2019, and achieved its Commercial Operation Date (COD) in Mar 2022.

ACT Solar was formed to establish a 2X50MW solar power project in Sindh. The Letter of Intent for the project has been issued while Letter of Support (LOS) is awaited.

**ACT SOLAR I & II**



**ACT Engineering Services**



ACT Engineering Services was established in January 2018 by the ACT Group. The company is PEC certified and has registered itself as an AEDB approved vendor for net metering solutions. Working in collaboration with Trina Solar, ACTES provides standardized solutions and offers on grid solutions with the option of net metering along with O&M services

ACT Polyols (Pvt) Ltd., established in 2017, operates a new plant for healthy and organic food processing, specializing in the production of rice syrup and sorbitol (with protein by-product).

**ACT Polyols**



# ABOUT OUR BUSINESS

ACT Engineering Services (ACTES) emerged in 2018 as a division of ACT Group, specializing in standardized Engineering, Procurement, and Construction (EPC) and Power Purchase Agreement (PPA) solar solutions catering to residential, commercial, and industrial clients. As a PEC certified entity, ACTES has obtained recognition as an approved vendor for net metering solutions by the Alternative Energy Development Board (AEDB).

The company offers customizable turnkey solar solutions, enabling customers to generate clean and affordable energy while minimizing maintenance requirements. With a current installed base of 35 MW, ACTES has its sights set on additional projects worth 100 MW, considering both turnkey and distributed power (PPAs) options.

ACTES is at the forefront of global transformation through its revolutionary environmentally friendly product. As dedicated solar energy specialists, our unwavering commitment lies in shaping an affordable and sustainable energy future for Pakistan's residential, commercial, and industrial sectors. Guided by this vision, we diligently craft extraordinary solutions that seamlessly merge innovative design with cutting-edge technology, always mindful of our deep-rooted connection to the preservation and harmony of nature. Emphasizing smart integration and efficient utilization, we strive to make a positive environmental impact and pave the way towards a greener and brighter future for all.



## Vision

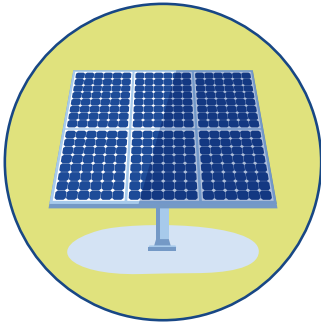
Empowering sustainable energy for all through innovative solar solutions.



## Mission

ACT Engineering Services is driven by a mission to deliver reliable, cost-effective solutions to our industrial and residential clients. With expertise in customized solar PV solutions, we are committed to reducing our customers' environmental impact while lowering energy costs.

# OUR COMPETITIVE EDGE



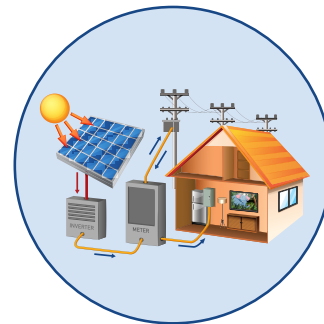
Premier solar PV solutions provider catering to Pakistan's fast-growing energy needs.



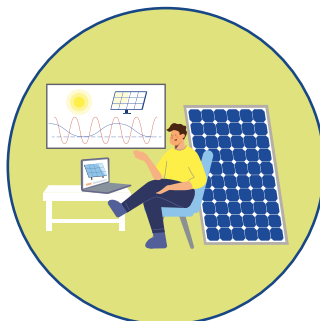
Partnered with one of the top 3 PV manufacturers, Trina Solar, to leverage their technical expertise.



Offering a full range of services, including turnkey EPC solutions and O&M services.



PEC-certified and AEDB-registered vendor for net metering solutions.



Performance is driven by in-house design engineers working in collaboration with their respective Trina counterparts.

# OUR CORPORATE VALUES



## Customer Centric

Our relentless commitment is to deliver unparalleled services and innovative solutions that surpass our customers' expectations.



## Integrity

We prioritize high integrity in our business by being fair, honest, and transparent with our customers and employees.



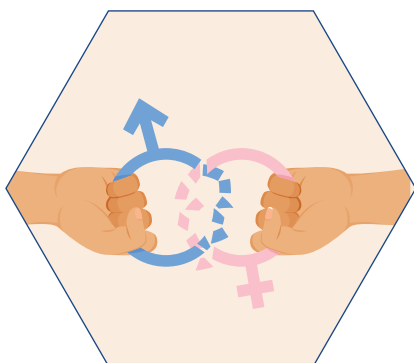
## Value Our People

Our people are our most important asset. We value them by treating everyone equally, providing growth and learning opportunities, respecting their opinions, and making decisions based on merit.



## Sustainability

We are committed to creating a sustainable future by promoting renewable energy and reducing our carbon footprint.



## Gender Inclusive

ACTES is committed to providing a gender-inclusive environment that values the unique perspectives and experiences of all employees. Our company has diverse, talented professionals from different backgrounds and communities.



## Health, Safety and Environment

We are committed to providing a safe and healthy work environment for all our employees. We strive to build our business by making HSE considerations an integral part of all our business activities.

# OUR SERVICES

The ACT Group is provide these services, namely.

Design Services

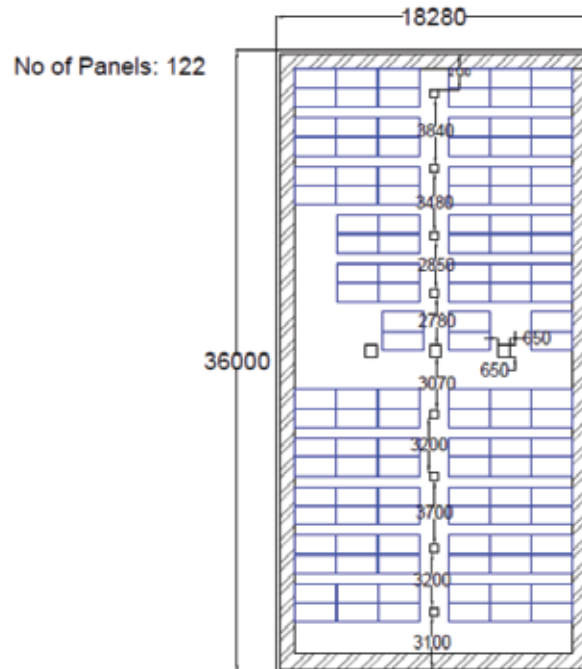
Execution Services

O&M Services

## DESIGN SERVICES

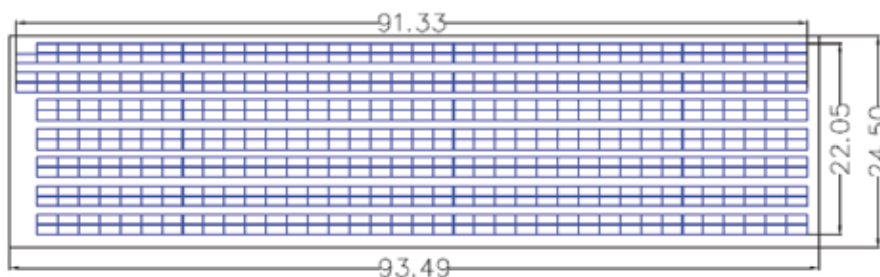
### RCC Roof Mounting Structure

Roof mounting structures are used to install solar panels over concrete rooftops. ACTES has installed this type of system on different sites such as Pakistan Paper Products, Shahsons (pvt) Ltd, MSM Traders, Culligan, Ismail Industries, Luckytex, Metro, Franscent etc.



### Ground Mount

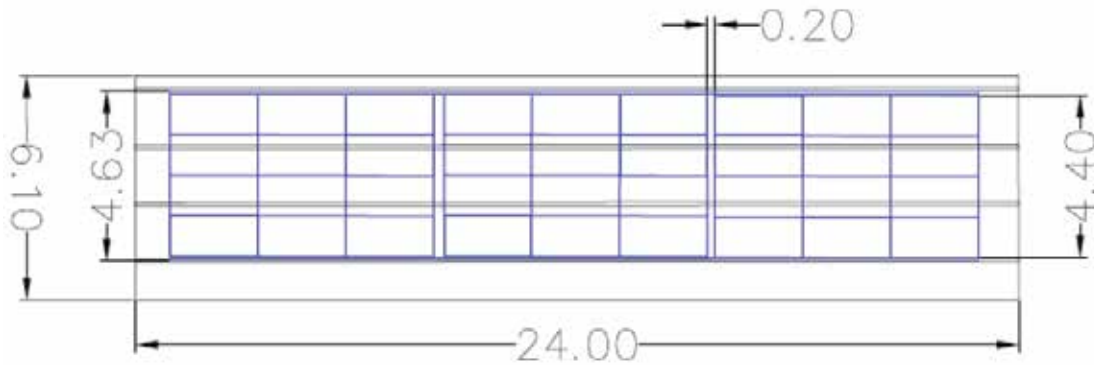
Ground mount structures are designed to be located on the ground and the best thing about ground mount systems is the wide range of options to design your solar system according to soil conditions, costs, weight to be supported, tracking system selection and array configuration. We have installed this kind of system at ACT Polyols.





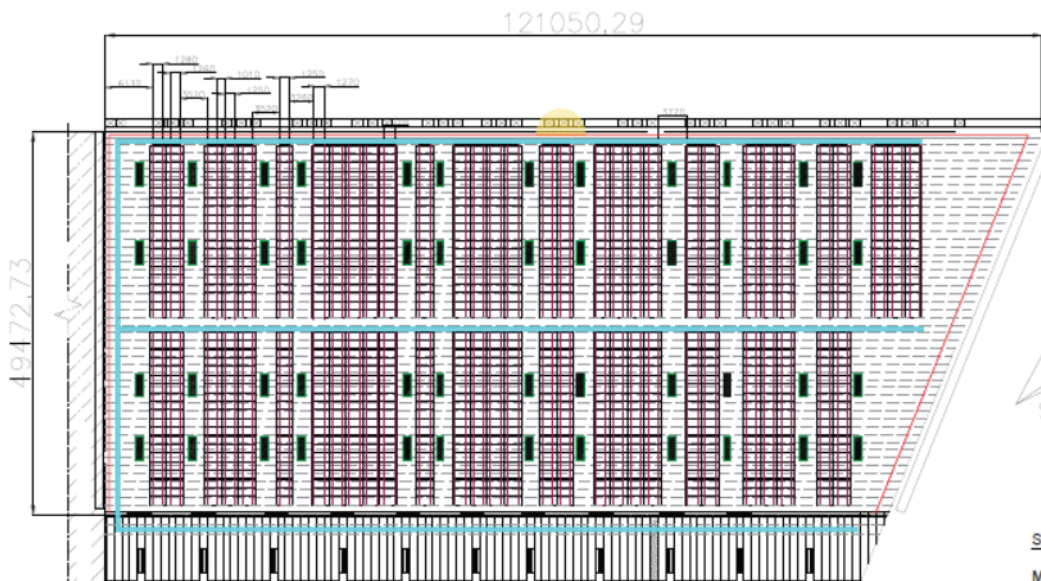
## Carport Mounting Structure

Carports are installed at a considerable height to allow car parking space underneath. Such installations make it possible to turn underutilized real estate into clean energy-generating spots. Such a mounting structure has been installed by ACTES on Ziauddin Education City (Linkroad).



## Shed Mounting Structures (Flush Mount)

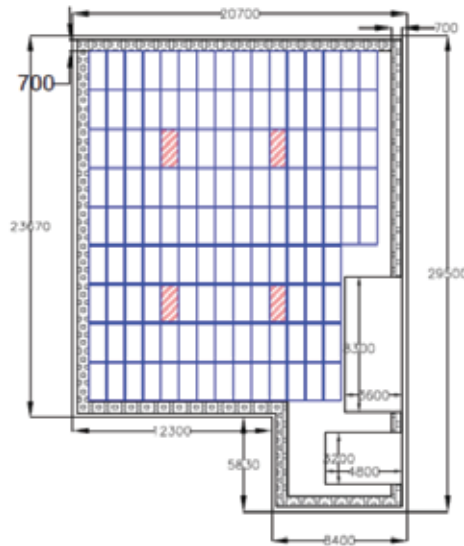
Shed mounting structures are essentially rooftop solar structures. These can be used in the residential sector but are more popular among commercial and industrial consumers. ACTES has installed such structures on Glacier (Lahore), Connect Logistic, Snackcity (Lahore), Shahsons, Bisconni, Candyland, Astro Plastic, Tapal Tea.





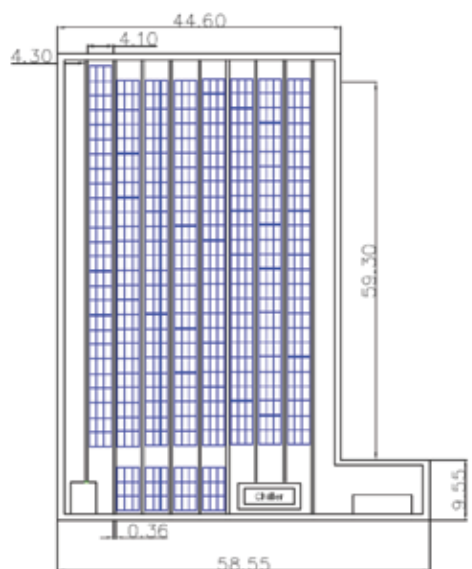
## Pole Mounting Structures (Elevated or High Raised)

Our top pole mount features a patented hoisting system for ease and safety during the installation process. Our customer support is second to none, from planning through installation. Engineering assistance is available with complimentary in-house design and stamped drawings Tapal Tea, Metro, Hudson Pharma, Culligan, Astro Films, Lakhany Silk Mill, ACT Polyols

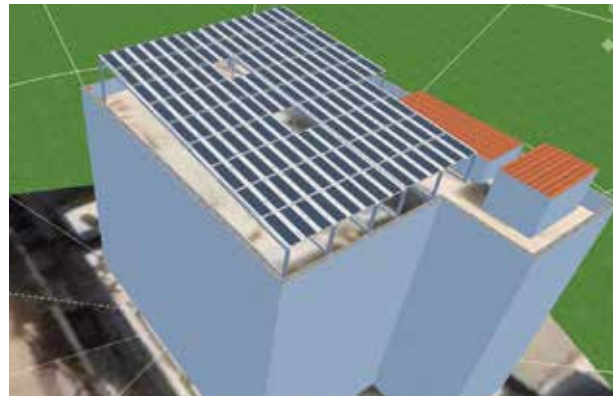
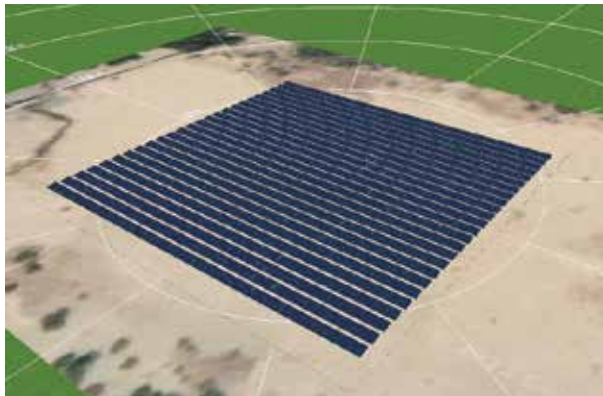
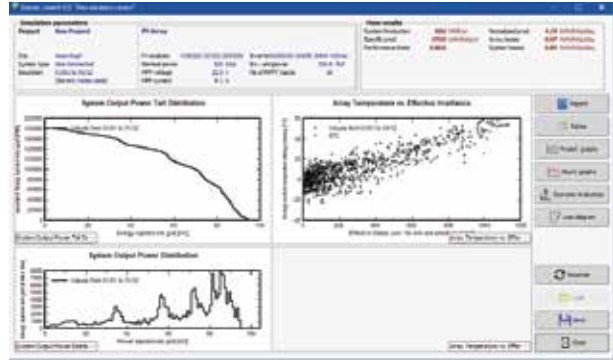
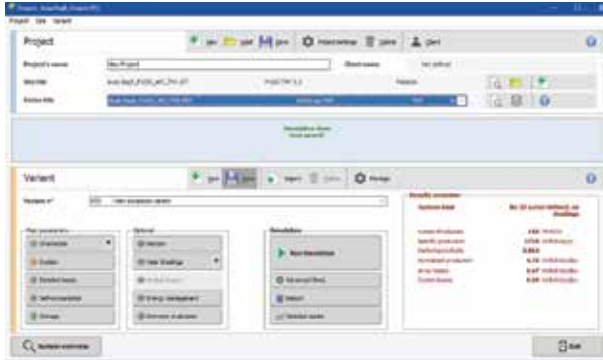


## Inverted Beam Structure

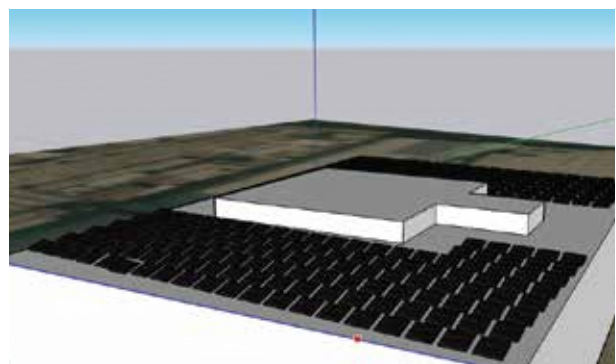
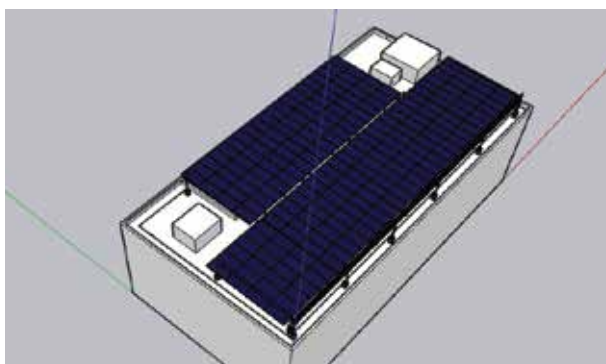
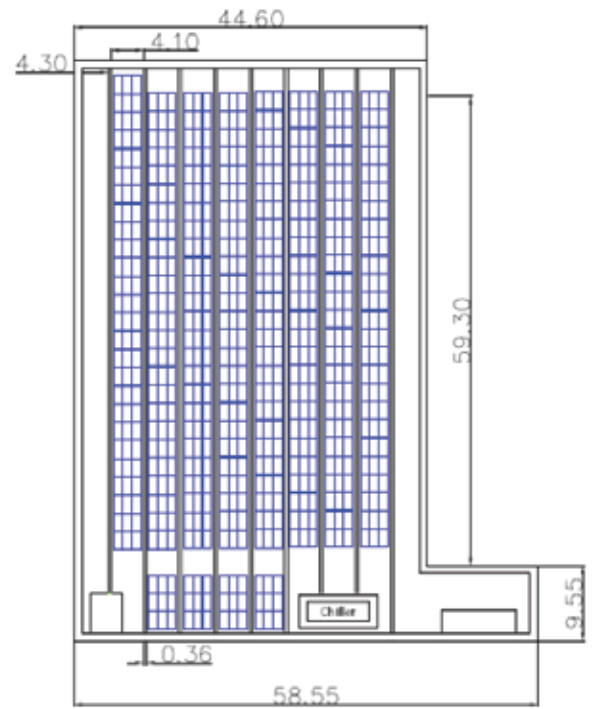
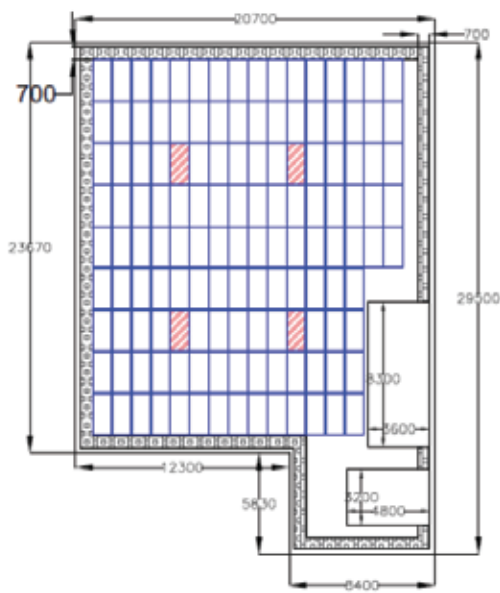
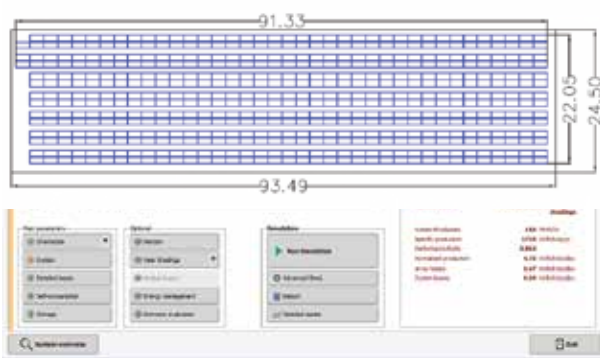
The inverted beam design is characterized by a series of parallel, rectangular beams that run across the ceiling of the building, with the solar panels attached to the underside of the beams. The beams are typically made of steel or concrete, and they serve to support the weight of the solar panels. We have installed such a structure at Indigo Textile.



# Our Design



# Our Design



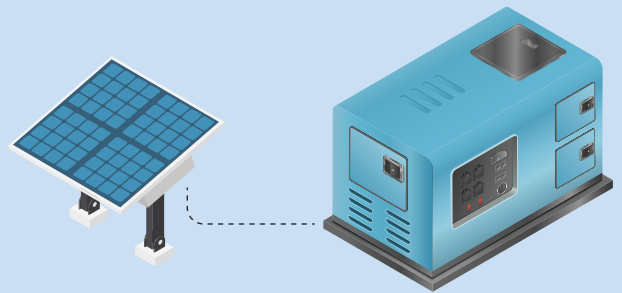
## OUR SOLUTION

### Solar On- Grid Solution with Net Metering



ACTES provides solar on-grid with net metering solutions that enhance return on investment and value for money. Any excess solar power that is generated on-grid can be exported to the grid. End users get paid a feed-in-tariff or credits for the energy exported.

### Solar PV Solution Integrated with Gensets



Considering the ongoing energy crisis in the country, ACTES offers integrated or stand-alone backup / generator power for residential, commercial, and industrial applications. Integrated energy generation systems that combine generator sets and photovoltaic plants guarantee considerable savings in fuel.

### Lease Based Agreement



In ACTES, we offer lease-based agreements. A solar lease allows customers to avoid the upfront costs of solar equipment and installation. Instead of paying for a solar system outright, the customer can pay a fixed monthly amount for the electricity that the solar panels generate.



## Power Purchase Agreement



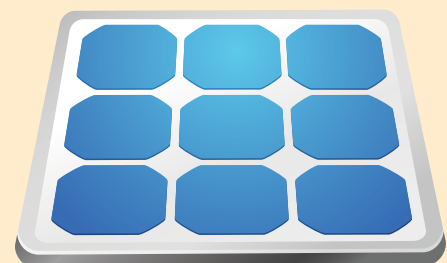
ACTES provides standardized PPA solar solutions for residential, industrial, and commercial clients. In this business model, the company would provide electricity via a solar system to its client on a pay-and-take basis. The major assumptions include a system life of 25 years handed over to the client in 10 years and a loan tenor to be assumed at 7 years.

## Discount to the Grid



It is like lease-based agreement, but the discount to the grid solution company provides the client with electricity at a significant discount to the ever-increasing grid rate.

## Ujala for the Low-Income Household



ACT Ujala is an on-grid solar solution designed to reduce monthly electricity bill. It is a simple on grid Plug and Play solution. ACT Ujala is a cost-effective solution with easy financing, mobility and easily upgradable by connecting more panels together to the existing system. The installation process is hassle-free, and no technical assistance is required.

## Corrective Maintenance



In case, operation monitoring identifies a breakdown or a serious anomaly; affecting safe operation or major performance degradation, ACTES will immediately develop a course of action and mobilize the field services team for onsite diagnostics and minor repairs to the solar PV system. ACTES will provide technical expertise and human resources for any major corrective maintenance identified in monitoring, scheduled maintenance and / or onsite breakdown/fault investigation activities.

## Preventive Maintenance



The ACT Engineering Services technical team will perform monthly general inspections and scheduled inspections, including tests, general repairs and basic maintenance as given in the scope of services. Scheduled maintenance will aim to maintain safe and optimal operation of the plant with minimal breakdowns.

## Remote Monitoring



Our team of experts will monitor your PV system daily to ensure that it is running at its optimum capacity with maximum efficiency. In case of any error, our technical team will send a relevant person to rectify the error immediately.

## Site Visits



Our site engineers will make quarterly visits to your site for a visual and physical inspection of your system. They will ensure that there is no physical damage or warranty claim.

## Generation Report



Our team will prepare regular generation reports of your system. A generation report is a comprehensive analysis that will include performance indicators such as monthly power generation, performance ratio as per the weather data, comparison between forecasted and actual generation numbers, etc.

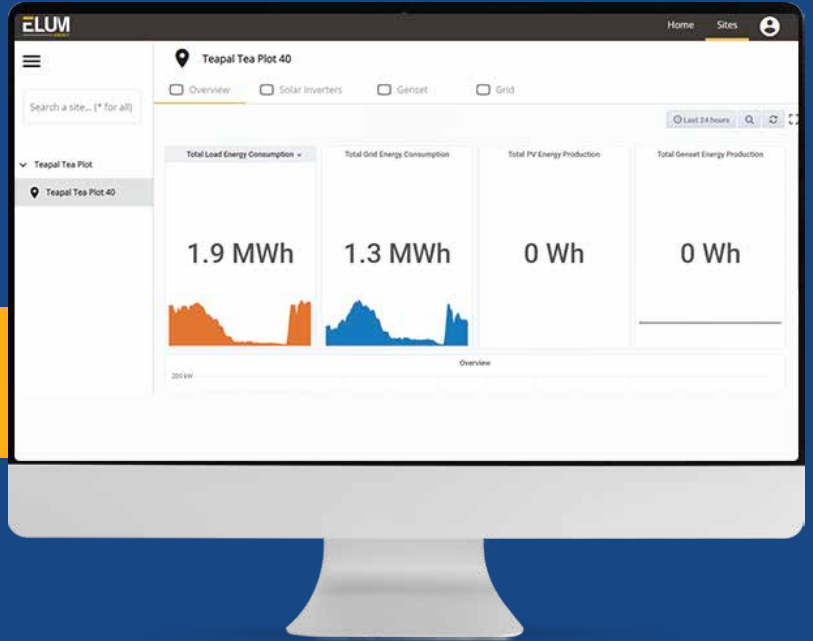
## Repair, Replacement & Warranty Claims



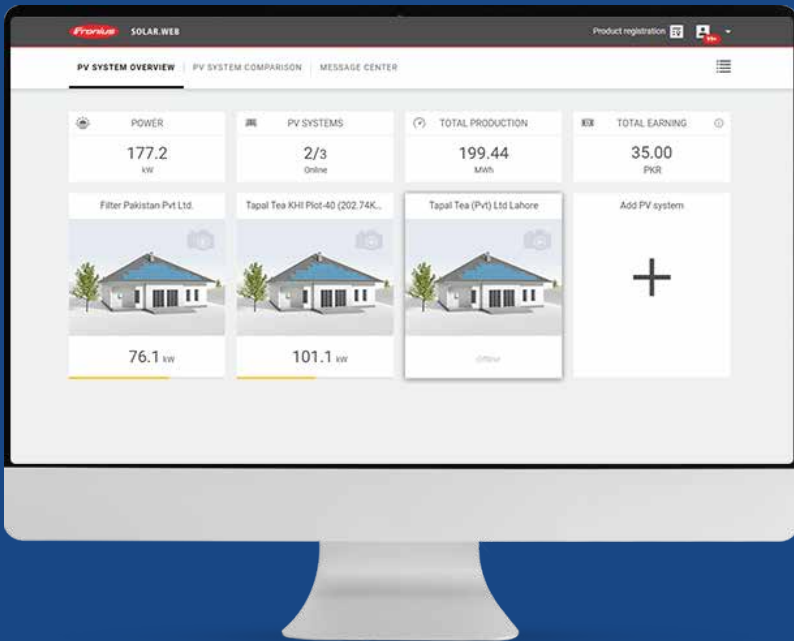
If the solar equipment malfunctions or fails during the warranty period, the customer can typically submit a warranty claim to the company. Once the claim is submitted, ACTES will evaluate the claim and determine whether it is covered under the warranty. If the claim is approved, the company will provide repair or replacement services for the defective equipment.

# REMOTE MONITORING

Elum Energy

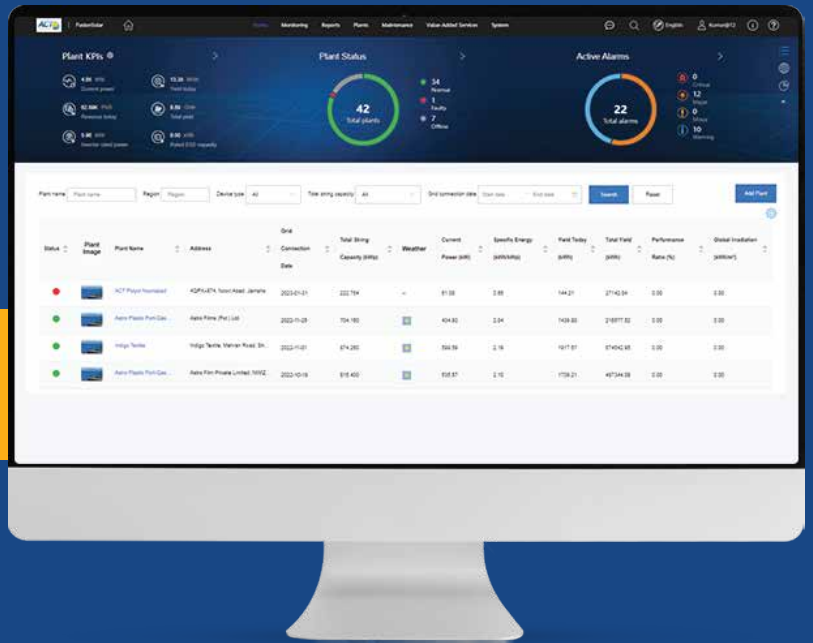


Fronius Solar

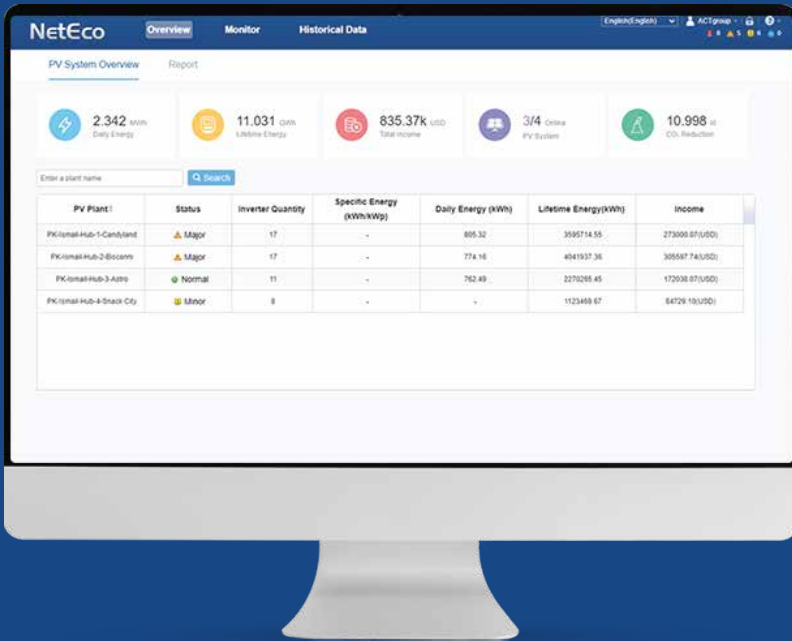




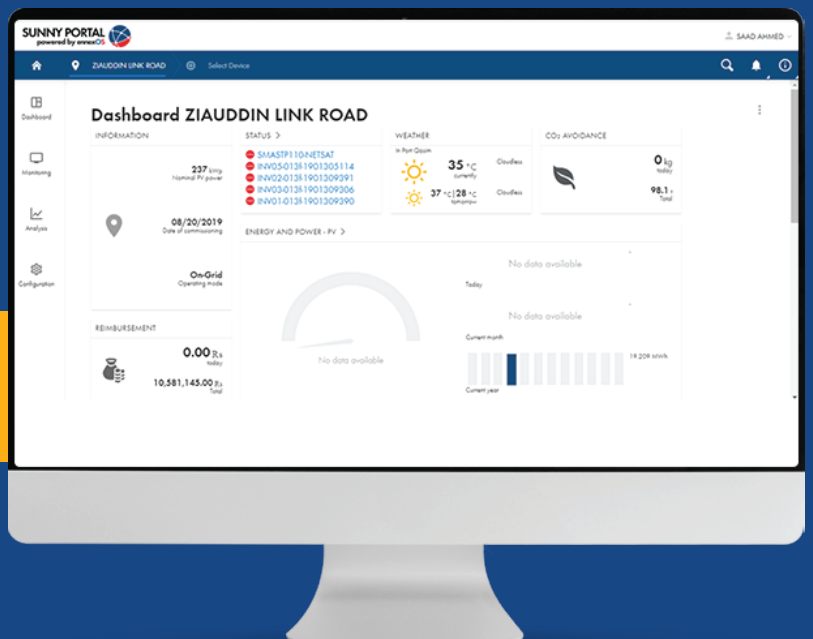
# Fusion Solar



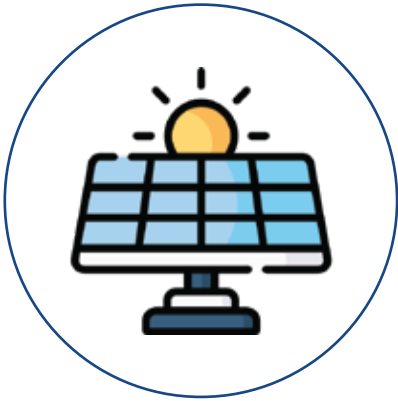
# NetEco



# Sunny Portal



# OUR PORTFOLIO



**Installed Capacity**  
35 MW across  
Installed Sites



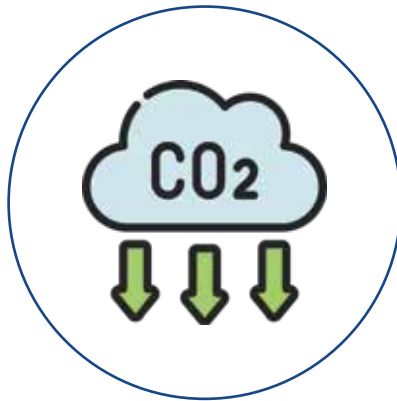
**Diverse Sector Coverage**  
Serving more than  
10 sectors



**Wide Geographical Presence**  
Operating in  
3+ locations



**Clean Energy Generation**  
Generating 40 million kWh  
of electricity



**Environmental Impact**  
Achieving a CO2 reduction  
of 31,973.76 metric tons



**Job Creation**  
Creating 100+ direct & indirect  
employment opportunities



**Environmental Conservation**  
Contributing to the equivalent  
of planting 3 million trees.



**Carbon Emission Reduction**  
Equivalent to  
displacing 23,440 cars.

# OUR PROJECTS



## Bisconni

Hub, Karachi

**659.49 KW**



## Candyland 2

Hub, Karachi

**781.14 KW**



## Astro

Hub, Karachi

**429.21 KW**



## Snackcity

Hub, Karachi

**444 KW**



## ACT Polyols

Nooriabad

**888.25 KW**



## Akhter Textile

Korangi, Karachi

**191.4 KW**



# OUR PROJECTS



## Candyland 1

Hub, Karachi

**291.6 KW**



## Indigo Textile

Port Qasim, Karachi

**874.26 KW**



## Hudson Pharma

Port Qasim, Karachi

**445 KW**



## Snackcity

Sunder Estate, Lahore

**681 KW**



## Karachi Public School

Korangi, Karachi

**100.5 KW**



## Dairyland

Dhabeji

**146 KW**



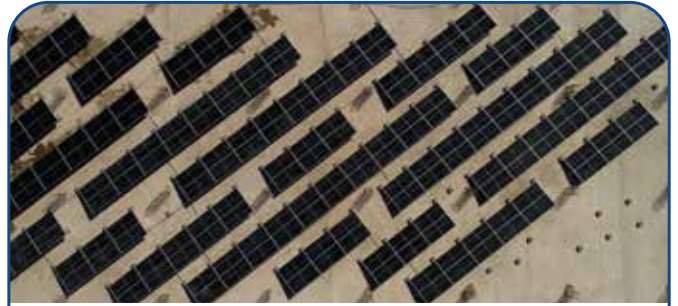
# OUR PROJECTS



## Lucky Tex

Site area, Karachi

119.56 KW



## Metro Franscent

Site area, Karachi

110.16 KW



## Metro Agarbatti

Site area, Karachi

150.12 KW



## Pakistan Paper Product

Site area, Karachi

204.12 KW



## Connect Logistics

Hawksbay, Karachi

597.8 KW



## Culligan

Site area, Karachi

104.64 KW

# OUR PROJECTS



## Glacier

Lahore

**586.4 KW**



## International Textile

Korangi, Karachi

**249.7 KW**



## MSM

Korangi, Karachi

**144.25 KW**



## Shahsons

Site area, Karachi

**225 KW**



## Tapal

Raiwind Road, Lahore

**144 KW**



## Ziauddin University

Link Road Highway, Karachi

**127.27 KW**

# OUR MILESTONES

2018

ACT Engineering Services was formed in 2018.  
PEC Certified.  
Alternative Energy Development Board approved vendor for net metering.  
Became exclusive EPC Contractor for Trina Solar  
Installed 5+ MW in 2018

Signed Contracts for 30 Industrial sites.  
Targeted 10+ sectors  
Increased project execution site to 3 cities  
Installed 681 Kw at Snackcity Lahore.

2019

2020

Signed 2 PPA contracts with one of the largest dairy producers  
Signed 25+ contracts for O&M.

ACTES introduced Ujala for the low income household which is an on-grid solar solution designed to reduce monthly electricity bill.

2021

2022

ACTES has won the GDEIB Award in the Connecting DEI & Sustainability category. This award recognizes our efforts towards promoting diversity, equity and inclusion in our workplace.

Act Engineering has presented its business case in presence of Mission Director US Aid Pakistan.  
ACT Engineering Services has participated in the Climate Finance Accelerator program.  
Concluded first 2 carbon credit transaction worth 100 thousand dollars.

2023



## OUR EXPERTS

We are proud of our dedicated team of professionals who work tirelessly to deliver outstanding results for our clients. Our team is comprised of experts in their respective fields, with a wealth of experience and a deep commitment to excellence.



### Farheen Irfan

**Designation:**

Chief operating Officer

**Qualification**

BBA, IBA; E-MBA, KSBL

**Certifications:**

CGMA, UK: CFA, USA.



### Salal Qazi

**Designation:**

Manager – Technical & Design

**Qualification**

BE Electronics from PAF KIET and pursuing Master's degree in Energy Management from NED UET.

**Certifications:**

Huawei Fusion Solar Certified Installer



### Love Kumar

**Designation:**

Deputy Manager – Execution (Industrial)

**Qualification**

BE Electrical from Bahria University.

**Certifications:**

Huawei Fusion Solar Certified Installer



## OUR EXPERTS



### Wasiq Javed

**Designation:**

Assistant Manager II – Technical (Residential)

**Qualification**

BE Energy and Environmental Engineering from Dawood University of Engineering and Technology, Karachi

**Certifications:**

Huawei Fusion Solar Certified Installer, Solar System & installation from UIT, HSE officer, Fire Safety GCI Level 2, IOSH Managing Safely.



### Haseeb Ahmed

**Designation:**

Assistant Manager – Technical (Industrial)

**Qualification**

BE Electrical from PAF-KIET University

**Certifications:**

Huawei Fusion Solar Certified Installer, L3/L4 Solar PV Competency from Deutsche GIZ's Renewable Energy and Energy Efficiency, Dewan Power Control Options.



### Hamza Mir

**Designation:**

Assistant Manager – Execution (Industrial)

**Qualification**

BE Electrical from NED University of Engineering and Technology.

**Certifications:**

Certified Solar System Installation from UIT, Huawei Fusion Solar Certified Installer.

## OUR EXPERTS



### Ahsan Ali

**Designation:**

Assistant Manager – Operations and Maintenance

**Qualification**

BE in Electric Power from NED University of Engineering & Technology.

**Certifications:**

L3/L4 Solar PV Competency from Deutsche GIZ's Renewable Energy and Energy Efficiency, Huawei Fusion Solar Certified Installer.



### Ali Abid

**Designation:**

Assistant Manager – Design (Residential)

**Qualification**

BE Electrical from NED University of Engineering and Technology.

**Certifications:**

L3/L4 Solar PV Competency from Deutsche GIZ's Renewable Energy and Energy Efficiency, Huawei Fusion Solar Certified Installer.

## OUR EXPERTS



### Rimsha Umaid

**Designation:**

Assistant Manager – Design (Industrial)

**Qualification**

Electrical Engineering Graduate from NEDUET, currently enrolled in Executive MBA program at KUBS.

**Certifications:**

Certified Solar System Installation from UIT, Web Designing from Aptech Computer Education, Agile Kick off (PMI), L3/L4 Solar PV Competency from Deutsche GIZ's Renewable Energy and Energy Efficiency, Huawei Fusion Solar Certified Installer.



### Muhammad Hassan

**Designation:**

Design Engineer

**Qualification**

BS Electronics Engineering from Sir Syed University of Engineering and Technology.

**Certifications:**

Artificial Intelligence from Presidential Initiative for Artificial Intelligence and Cloud Computing, L3/L4 Solar PV Competency from Deutsche GIZ's Renewable Energy and Energy Efficiency, Huawei Fusion Solar Certified Installer.

# SUSTAINABLE DEVELOPMENT GOALS

Our company aligns with these SDG Goals





# DIVERSITY, EQUITY AND INCLUSION

ACTES is committed to promoting and nurture a culture of diversity, equity, and inclusion. We fully embrace and encourage the diverse attributes of our employees, such as age, race, ethnicity, family or marital status, gender identity or expression, language, national origin, physical and mental abilities, political beliefs, religion, and any other characteristics that make each employee unique.

## OUR CURRENT WORKFORCE

- 80:20 Male Female Ratio
- 10% Different Ethnicity
- 25% Disadvantage Communities

## ACTES Policies that Supports DEI

- Anti-Harassment Policy
- Paid paternity and Maternity leaves
- Flexible working hours
- Equal pay for equal work
- Diverse Workforce

## OUR COMMITMENTS

- Female: Male Workforce 40:60
- Onboard 10% Women Entrepreneurs
- 100+ women centric jobs
- Hire clients who adhere to all GESI Policies
- Build Gender Inclusive environment



**DIVERSITY**



**EQUITY**



**INCLUSION**

# HUAWEI CERTIFICATES



Abdullah Riaz



Ali Abid



Danish Khan



Furqan Ali



Aneeq Ahmed



Hamza Mir



Haseeb Ahmed



Love Kumar



Noman Naseem



Rimsha Umaid



Salal Qazi



Shaheer Ahmed



Wasiq Javed

# AEDB CERTIFICATES



Ahsan Ali



Ali Abid



Danish Khan



Haseeb Ahmed



Rimsha Umaid



Kaleem Siddiqui

# AWARDS AND CERTIFICATES





## OUR CLIENTS



## OUR PARTNERS





# CONTACT US

## Head Office

Office# 1602, 16th floor, Emerald Tower, Near 2 Talwar, Clifton, Karachi.

## Call us

0309 3337723 | 92 21 35148843-47 (Ext: 351)

## Email

[info.actes@actgroup.com.pk](mailto:info.actes@actgroup.com.pk)