



COMPANY & PROJECT PROFILE

ExpoTech Renewable Energy Ltd.

ExpoTech Innovation Ltd.

ExpoTech UK Ltd.

ExpoTech Properties Ltd.

ExpoTech BD Ltd.

ExpoTech Food & Beverage Ltd.

ExpoTech Data Center Ltd.



EXPOTECH RENEWABLE ENERGY LTD.
Tomorrow's Energy, Today



ExpoTech UK Limited
Let Solar Be In Every Vehicle



EXPOTECH INNOVATION LTD.
LET SOLAR BE THE POWER

ExpoTech Renewable Energy Ltd.

ExpoTech UK Limited

ExpoTech Innovation Ltd.

COMPANY PROFILE

We want Renewable Energy in Every
■ Aspects of Bangladesh

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About Us

ExpoTech Renewable Energy Ltd.

ExpoTech Innovation Ltd.

ExpoTech UK Ltd.

We work with a passion to taking challenges and making the environment safe. Solar power is the last energy resource that isn't owned yet —nobody taxes the sun yet. Solar power: it's the only way we are going to get to the other end of the 21st century.



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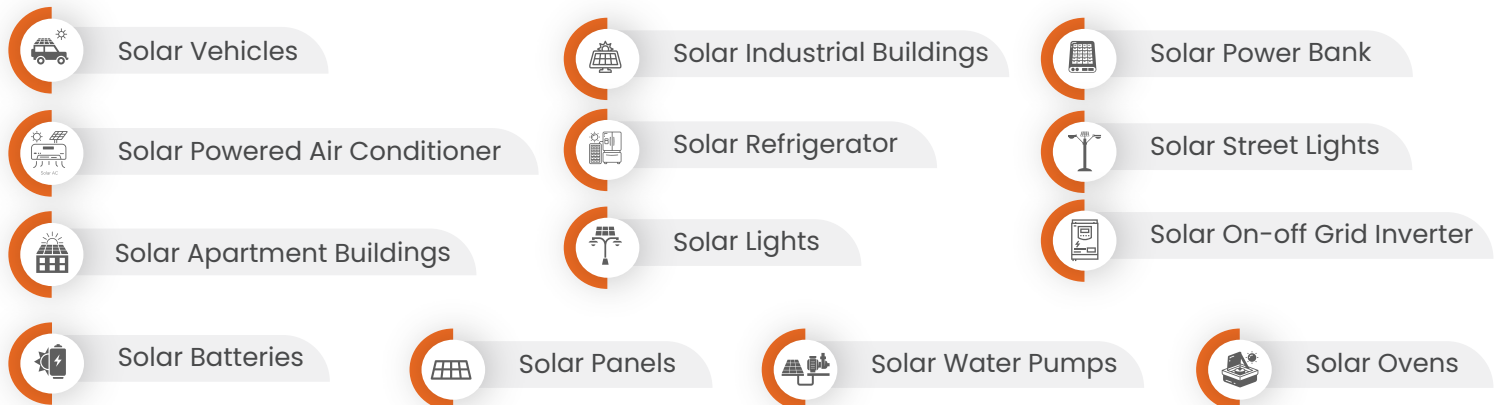


ExpoTech UK Limited
Let Solar Be In Every Vehicle

What We Do

We provides cutting-edge solar energy solutions, including products and services for sustainable energy use across homes, businesses, and industries.

OUR PRODUCTS



OUR SERVICES



CEO's

Message

Md Shamsul Arefin (PhD)

CEO & Managing Director,
Expotech Group of Companies.



After achieving my Bachelor of Science (B.S.) in Mathematics, Bachelor of Arts (B.A.) in Philosophy and Minor in Economics at Ohio University in 1991, I went to Michigan State University for my graduate study. I registered ExpoTech USA Limited in 1996 while I was a graduate student at Michigan State University in East Lansing Michigan. I registered ExpoTech BD Limited in Bangladesh in 2002 and ExpoTech UK Limited at Bradford, United Kingdom in 2003. And then ExpoTech Innovation Limited in 2023 and ExpoTech Properties Limited in Bangladesh in 2024.

Net Zero for Bangladesh and the world has an ambitious but vital goal that reflects our shared commitment to combat climate change. It signifies a state where human-generated greenhouse gas emissions are effectively reduced to zero. Achieving this requires a shift from fossil fuels to renewable energy sources like solar energy and battery storage.

However, this isn't only an environmental imperative. It's also a driver of innovation, job growth, and economic resilience. By pursuing this achievement, we pave the way for a sustainable future, ensuring the well-being of current and future generations.

In our collective quest for net zero emissions, every individual, especially entrepreneurs and political leaders, play a vital role. As you manage businesses and organisations, you possess a unique opportunity to optimise spending and protect the environment. Embracing sustainable energy solutions like solar PV systems and implementing smart energy practices, bolstered by battery storage solutions, is the key to fulfilling this role effectively. Entrepreneurs and leaders can lead by example, reducing carbon footprints and setting the standard for sustainability. By doing so, you not only contribute to a greener future but also position your ventures as responsible and forward-thinking.

At ExpoTech UK Limited & ExpoTech Innovation Ltd. & ExpoTech Properties Limited, we are dedicated to helping individuals and businesses embrace clean energy and shrink their carbon footprint. Our team of experts is committed to sourcing the latest in solar technology and battery storage systems for efficient energy use and seamless integration.

ExpoTech Group of Companies, take pride in offering transparent and competitive quotes, making sustainable energy accessible to all. Our aim is to facilitate a smooth transition to a green society. With our commercial solar installations, selling all kinds of solar products and vehicles, achieving this has never been more attainable or impactful. Given the exceptional returns from solar panels, this technology stands out as a leading sustainable solution.

As the CEO & Managing Director of ExpoTech Group of Companies, I embarked on a mission to not only decrease carbon emissions but also create investment opportunities for businesses across Bangladesh. And I believe and I endeavour that 2025 will be a better world for Bangladesh.



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CHAIRMAN'S

Message



Mst Badrunnesa

Chairman,
ExpoTech Group of Companies.

Delivering the dream of home/flat/building ownership everywhere.

ExpoTech staff and I have this same goal, because owning real estate provides security, safety and opportunity for individuals. The technology we build helps my team become more efficient at their job and find more customers to deliver on that mission. Win, Make, Give, and Do Good.

We want to win at what we do, and we do all we can to help our customers, partners, agents and employees build wealth. We love to work with people who are passionate about working hard and also giving back to their communities in a big way.

Our values are what everyone who works at ExpoTech Group of Companies strives for each day, and they are applicable to any companies we work with. These values are also the metric we use to decide to invest or get in business with others.

Our success is defined by our core values:

- Hard work
- Extraordinary results
- Accountable in all things
- Humble

2024 is as if gone with the wind giving us independence on the 5th of August, emptying thousands of mothers lap deprived of their beloved sons or daughters. People of Bangladesh will never forget them and their sole sacrifice will be the driving force for all of us in 2025: The New Year with new frontier confronting new challenges with the promise of 2024. We have big plans that we want to implement in 2025.

VISION & MISSION

#3

OUR VISION



There is no doubt that humanity is facing climate change on many fronts—Bangladesh confronting the worst although the rich nations are fully responsible for the Climate Change but the poor nations are paying the price. Many governments, organizations, companies and individuals are trying to decelerate and potentially even reverse the process of global warming that is threatening the world as we know it today. These pioneers are looking to emerging green technologies, practices, and social transformation in order to succeed in the battle against climate change.

The world has sufficient wind and solar resource to power our entire planet many times over. With technologies advancing rapidly, every country now has the potential to power their own energy future sustainability and cost-effectively.

"Our vision is for a world where everyone has access to clean, renewable, energy and to create a world powered by clean, sustainable energy."

A world where Bangladeshi farmers can sort through their harvest even after the sun sets. Where children can study and realise their dreams. Where midwives can deliver babies safely through the night. And where the planet can breathe a bit easier.

We are working towards a world where the poorest and most remote communities aren't left behind which Bangladesh has in many places. Where entrepreneurs have access to the resources they need to expand their businesses, create sustainable income and light up their communities at the same time.

ExpoTech Innovation Ltd. aims to contribute to this battle, through the promotion of solar energy. We believe that with the need for change, humanity will surface stronger and more resourceful in the future. ExpoTech envisions that the world will one day predominantly use renewable energy sources, breaking the chains of our addiction to fossil fuels and changing our destructive habits in energy and resource consumption. We envision a world where energy management will be smarter and more efficient, which in combination with new technologies, will assure our wellbeing and will lead the human race to new frontiers.

MISSION VISION

VISION & MISSION



OUR MISSION

To promote solar energy and implement Solar Power Stations in Bangladesh. ExpoTech has a results-oriented approach for all of our clients and partners, which is why we aim for the realization of PV Stations following the most efficient and optimal approach.

The world is undergoing a once-off transition from its reliance on fossil fuels to investing and building the infrastructure for a future that is powered by renewable energy.

"ExpoTech's mission is to lead this transition and to develop and scale renewable energy technologies that improve the way we generate, store, manage and use electrical power in every aspect of our lives."

Values & Code of Ethics:

The need for change in the energy industry is coupled by the need for change in business practices and social responsibility. ExpoTech Innovation Ltd.'s business customs and processes must promote honesty, integrity, transparency and loyalty to our partners and society, in the utmost professional and efficient manner. The company also aims to be a socially and environmentally responsible organization, implementing green practices under our Corporate Social Responsibility (CSR) policy.

Together, we are making light work:

While always prioritizing the needs of our customers and striving for their total satisfaction, our aim is to continue to innovate with the development of our Renewable Energy solutions, allowing you to have a better quality of life, while contributing to the preservation of a cleaner planet with a smaller carbon footprint.



to design and build sustainable, robust and bankable turnkey utility projects in order to meet the energy demand and provide affordable power to communities and industries in Europe and Africa to design and build sustainable, robust and bankable turnkey utility scale renewable energy projects in order to meet the energy demand and provide clean, reliable and affordable power to communities and industries in Europe and the Americas.

#5 OUR



**Solar
Products**

10+



**Curent
Supplies (MW)**

3,000+



**Powerplant
Proposed**

20+



**Total Solar
Coverage**

125+
sKM

Projects



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Let Solar Be In Every Vehicle

Solar Car

Electric vehicles with built-in solar panels seem like a good idea—until you confront reality.

What is a Solar Car?

A solar car is a vehicle powered by solar energy, captured by panels integrated into its body. It's an eco-friendly and efficient solution that significantly reduces dependence on conventional fuel sources, offering a greener alternative for everyday commuting.

The benefits of solar cars

When paired with solar panels, they provide a clean, sustainable mode of transport.

Solar electric cars are more energy-efficient than internal combustion engines.

They cost consumers less, as they avoid volatile fuel prices.

Solar cars produce no noise or air pollution.

Solar-powered cars produce their own power, reducing our reliance on fossil fuels and subsequent greenhouse gas emissions.

Perfect for drivers who only travel short distances or live in sunny climates, as they could eliminate charging their EV via Grid energy.

Key Features:



- **Renewable Energy:** Powered by solar panels, utilizing natural sunlight.
- **Eco-Friendly:** Reduces carbon emissions to support cleaner air.
- **Energy Efficient:** Low power consumption, ideal for urban travel.



At Expotech, we are committed to pushing the boundaries of clean technology, providing cutting-edge solar cars that are both efficient and eco-conscious, helping shape the future of sustainable transportation.

Solar Bus

Powering Clean Journeys
The Future of Public Transport



Key Advantages:

- **Cleaner Cities:** Reduces pollution and promotes healthier urban air quality.
- **Cost-Effective Operation:** Minimizes energy and maintenance costs.
- **Large Capacity:** Optimized for transporting many passengers, ideal for public systems.



What is a Solar Bus?

Solar buses are equipped with solar panels on their roofs that convert sunlight into energy to power electric engines. They offer a clean, cost-effective solution for public transport, reducing fuel consumption and lowering emissions in busy urban environments.

Our Commitment to Green Mobility

Solar buses are equipped with solar panels on their roofs that convert sunlight into energy to power electric engines. They offer a clean, cost-effective solution for public transport, reducing fuel consumption and lowering emissions in busy urban environments.



Solar Truck

Driving Sustainability
Powering Freight with Solar Energy



What is a Solar Truck?

Solar trucks are designed to use solar energy to supplement their electric engine, making long-distance freight hauling more sustainable. With solar panels integrated into the truck, it reduces fuel consumption and minimizes environmental impact for logistics companies.



The solar truck plays a crucial role in ecology by reducing carbon emissions and minimizing the environmental impact of freight transportation, helping to create a more sustainable and eco-friendly logistics industry.

Key Features:

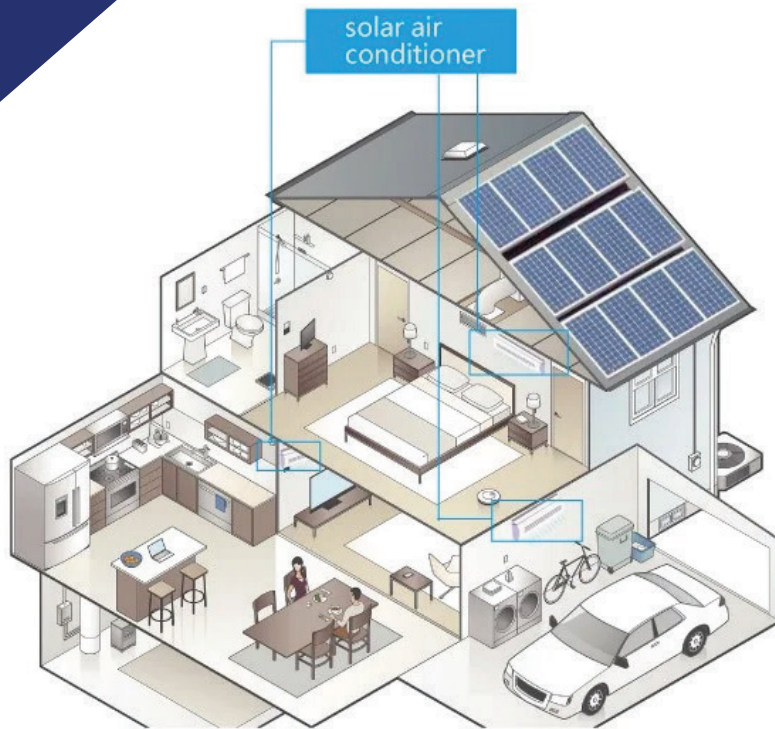
- **Energy-Efficient Freight:** Uses renewable energy to power logistics solutions.
- **Long-Distance Capability:** Designed to optimize energy for long-haul routes.
- **Eco-Friendly Logistics:** Lower carbon emissions in the transportation industry.



**Our Commitment
to Green Mobility**

Solar buses are equipped with solar panels on their roofs that convert sunlight into energy to power electric engines. They offer a clean, cost-effective solution for public transport, reducing fuel consumption and lowering emissions in busy urban environments.

Revolutionizing Cooling with Solar Air Conditioners



The Innovation

Solar air conditioners represent a breakthrough in cooling technology, utilizing the limitless power of the sun to operate efficiently and sustainably. Unlike conventional air conditioners, these systems are designed to minimize dependence on fossil fuels, reducing energy costs and environmental impact. By integrating advanced components with solar panels, they deliver consistent performance even in regions with high energy demands or fluctuating electricity supplies. This innovative approach makes solar air conditioners a game-changer for both residential and commercial applications.



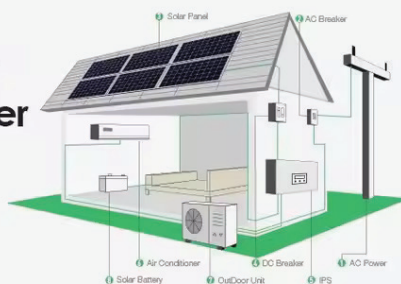
Key Benefits

Switching to solar air conditioning comes with numerous advantages. Not only does it lead to significant savings on energy bills, but it also contributes to a greener planet by reducing greenhouse gas emissions. These systems are designed for long-term durability and can operate effectively in a wide range of climates, offering comfort and peace of mind year-round. Whether you're looking to enhance energy efficiency or adopt a more sustainable lifestyle, solar air conditioners provide a practical and eco-friendly solution for modern cooling needs.

Rising Solar

Off Grid solar air conditioner

Sunpal solar air conditioner assists you to enjoy a cooling summer without the worry of the electricity bills.



Solar Air Conditioner

Free cooling in the sun

AC/DC auto-balance -
97% saving in daytime -
PV&DC-driven -

Solar-Powered Apartment Buildings

A Vision for Sustainable Living

Harnessing Solar Energy for Urban Living

Solar air conditioners represent a breakthrough in cooling technology, utilizing the limitless power of the sun to operate efficiently and sustainably. Unlike conventional air conditioners, these systems are designed to minimize dependence on fossil fuels, reducing energy costs and environmental impact. By integrating advanced components with solar panels, they deliver consistent performance even in regions with high energy demands or fluctuating electricity supplies. This innovative approach makes solar air conditioners a game-changer for both residential and commercial applications.



Adopting solar energy in apartment buildings provides a multitude of advantages. Residents enjoy significant savings on energy bills and greater energy reliability, while property owners see increased value and appeal. Beyond the financial benefits, solar apartment buildings play a vital role in reducing greenhouse gas emissions and promoting a sustainable lifestyle for urban communities. It's a win-win for the planet and its people.



Benefits for Communities and the Planet



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How Solar Battery Storage Works

When your solar panels produce more power than you are using, the excess flows into your battery storage for later use.

1

2

Batteries allow you to get the most out of your solar panels by storing excess solar energy instead of sending it out into the electric grid.

3

When the sun goes down or if you experience an outage, you can use the excess solar energy stored by your battery to help power key appliances.

Solar Batteries The Future of Energy Storage



Sustainability and Cost Savings Combined

- Reduces Reliance On Traditional Grid Power For Energy Needs.
- Lowers Electricity Bills By Storing And Using Solar Energy Efficiently.
- Enables Energy Use During Peak Demand, Reducing Costs Further.
- Minimizes The Need For Fossil Fuels, Supporting A Greener Planet.
- Helps Lower Carbon Emissions For A Sustainable Future.
- Provides Backup Power During Outages, Ensuring Reliability.
- Increases Energy Independence For Homes And Businesses.
- Extends The Lifespan Of Solar Systems By Optimizing Energy Usage.
- Supports Renewable Energy Adoption For A Cleaner Environment.
- Offers Long-term Financial Savings With Advanced Energy Storage.



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Tomorrow's Energy, Today



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ExpoTech UK Limited
Let Solar Be In Every Vehicle

Solar Energy for Industry

Powering the Future of Manufacturing

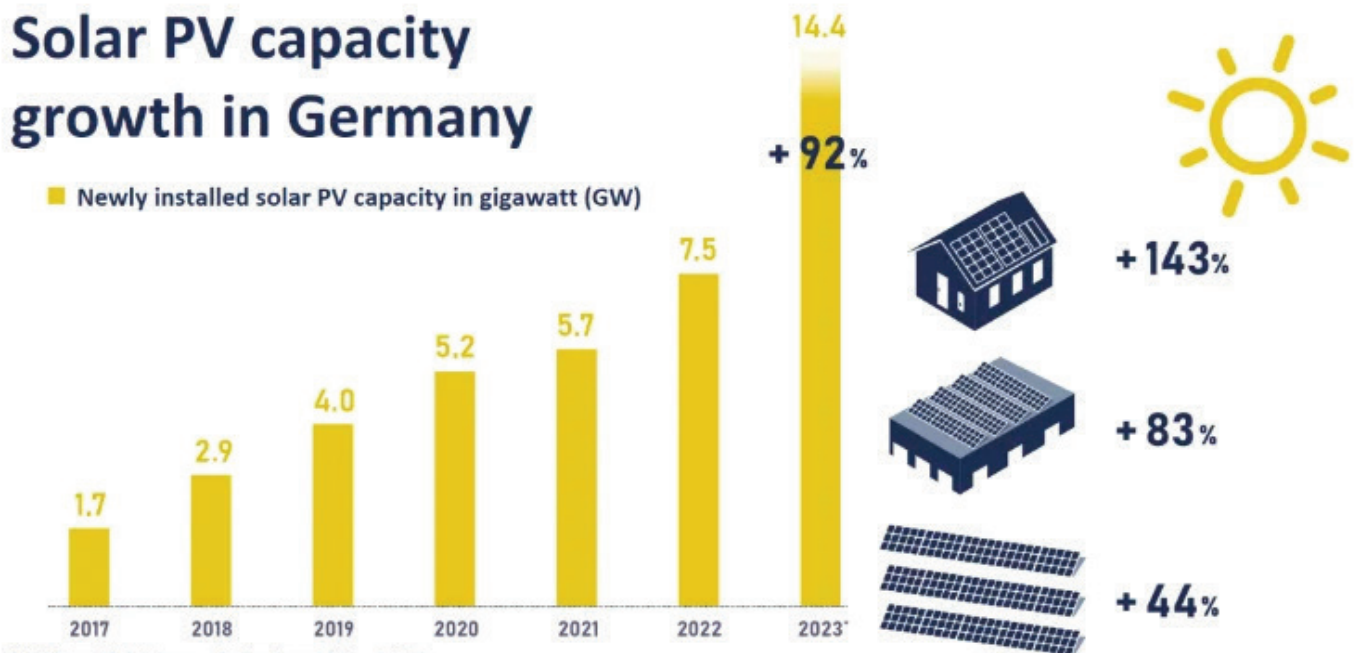
Solar Power in Industrial Applications

Industries can harness solar energy to significantly reduce energy costs and improve sustainability. By integrating solar panels into their operations, companies can power machinery, lighting, and other essential systems with renewable energy, cutting dependence on traditional power sources.



Solar PV capacity growth in Germany

■ Newly installed solar PV capacity in gigawatt (GW)



Key Benefits for Industrial Growth

- Lowers electricity bills by utilizing solar energy.
- Increases energy security by reducing dependence on external power sources.
- Reduces carbon footprint, supporting environmental goals.
- Enhances operational efficiency by optimizing energy use.
- Promotes corporate responsibility and sustainable business practices.
- Helps industries meet regulatory sustainability standards.

Solar Refrigerators

Sustainable Cooling Solutions



Digital
Temperature Control*



Controller
Cooling System



Top Brand
DC Compressor



AC/DC
Adaptor*



Energy-Efficient Cooling for All Needs

Solar-powered freezers, fridges, and refrigerators provide an eco-friendly solution for cooling needs. These appliances harness the power of the sun to operate, reducing reliance on traditional electricity sources and lowering energy bills. Ideal for homes, businesses, and off-grid locations, solar refrigeration systems offer reliable, sustainable cooling with minimal environmental impact.

Why You Need Solar Refrigeration?

Solar refrigeration is crucial for reducing energy consumption and costs, especially in areas with unreliable or no access to the electrical grid. It ensures that perishable goods are stored safely, even in remote or off-grid locations. By utilizing renewable energy, solar refrigerators help reduce carbon footprints, lower utility bills, and promote a sustainable, eco-friendly lifestyle.





Solar lights are an eco-friendly lighting solution that harness the power of the sun to provide reliable and energy-efficient illumination. By using solar panels to convert sunlight into electricity, these lights eliminate the need for traditional power sources, reducing energy consumption and cutting utility costs. Ideal for outdoor spaces, garden lighting, street lights, and security lighting, solar lights are perfect for both residential and commercial applications.

- Rely on renewable energy, reducing carbon footprints.
- Reduce energy consumption and lower electricity bills.
- Easy installation with no wiring or complex setup required.
- Ideal for off-grid locations and areas with unreliable power.
- Durable and low-maintenance, offering long-lasting performance.

In addition to being environmentally friendly, solar lights offer cost savings by reducing electricity bills. They can operate in a variety of weather conditions and are designed to be durable, providing long-lasting lighting with minimal maintenance. With the increasing demand for sustainable solutions, solar lights are emerging as a smart and responsible choice for modern lighting needs.



Solar Panels

Harnessing the Power of the Sun



Why Solar Panels?

- Solar panels convert sunlight into electricity, providing a renewable and clean energy source.
- They help reduce dependence on traditional energy sources, lowering energy costs and environmental impact.
- Solar panels can be installed on residential, commercial, or industrial properties, making them versatile for various needs.

Benefits of Solar Panels:

- **Cost Savings:** Solar panels help lower electricity bills by generating free power from the sun.
- **Environmental Impact:** Solar energy significantly reduces carbon emissions, helping combat climate change and air pollution.
- **Energy Independence:** With solar panels, you can reduce reliance on the electricity grid, providing more energy security.
- **Long Lifespan:** Solar panels are durable and low-maintenance, offering long-term savings and reliability.



Let be use Solar Panels in:

Residential

Commercial

Industrial



Solar Power Banks

Charging Anytime, Anywhere



What Are Solar Power Banks?

Solar power banks are portable devices that harness solar energy to charge electronic devices. Equipped with solar panels, they store energy in internal batteries, ensuring you always have power, even when away from traditional electricity sources. These power banks are ideal for outdoor activities, emergencies, and travel.

Benefits of Solar Power Banks:

- **Portability:** Lightweight and compact, making them easy to carry.
- **Renewable Energy:** Harnesses solar power, reducing dependency on grid electricity.
- **Convenience:** Provides power for devices like smartphones, tablets, and more, anytime, anywhere.
- **Sustainability:** Promotes eco-friendly charging, contributing to a greener future.
- **Versatility:** Useful in various scenarios, including outdoor adventures, camping, or during power outages.

Solar Street Lights

Harnessing the Power of the Sun



The Innovation of Solar Street Lights

Solar street lights are advanced lighting systems powered by the sun, providing eco-friendly and cost-effective illumination for public spaces. These systems feature high-efficiency solar panels, energy storage batteries, and LED lights, making them a sustainable alternative to traditional street lighting. Designed for easy installation and operation, they function autonomously without the need for grid power.

Why Solar Street Lights Are Essential:

- **Energy Independence** : Fully powered by renewable solar energy.
- **Cost-Effective** : Eliminates electricity bills and maintenance costs.
- **Eco-Friendly** : Reduces carbon emissions and environmental impact.
- **Reliable and Durable** : Performs well in all weather conditions.
- **Safety and Security** : Provides bright, consistent lighting for public spaces.



At Expotech, we provide top-quality solar street lights and solutions designed for durability, efficiency, and customer satisfaction.



Solar Ovens

Cooking with the Power of the Sun

What Is a Solar Oven?

A solar oven is an innovative cooking device that uses the sun's energy to prepare meals. By concentrating sunlight with reflective surfaces, solar ovens achieve high temperatures, enabling you to bake, cook, and even boil without using conventional fuel or electricity. These ovens are portable, eco-friendly, and perfect for outdoor use.

What Type of Food Can You Cook in a Solar Oven?

- **Baking** : Bread, cakes, and cookies.
- **Roasting** : Vegetables, meats, and poultry.
- **Boiling** : Soups, stews, and beverages.
- **Dehydrating** : Fruits, herbs, and snacks.
- **Slow Cooking** : Nutrient-rich meals with even heat.



At Expotech, we offer high-quality solar ovens that combine durability, efficiency, and sustainability. Perfect for outdoor enthusiasts, eco-conscious households, and remote locations.



On-Off Grid Solar Converters

Seamless Power Solutions

What Are On-Off Grid Converters?

On-off grid solar converters enable users to switch seamlessly between solar power and the electrical grid. These devices are perfect for ensuring continuous power supply, even in areas with unstable grid electricity. By integrating solar energy with grid power, they maximize efficiency and reliability for both residential and commercial applications.



Grid



Solar panel



Hybrid inverter



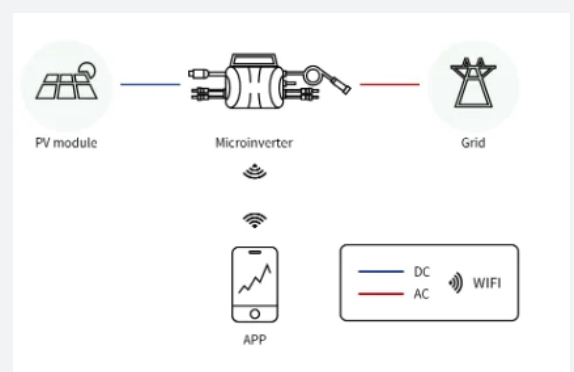
Battery



Generator

Key Features:

- **Seamless Switching:** Automatically toggles between solar and grid power.
- **Energy Savings:** Prioritizes solar energy to reduce electricity bills.
- **Reliability:** Provides uninterrupted power in case of grid failure.
- **Flexibility:** Suitable for homes, businesses, and industries.
- **Eco-Friendly:** Reduces reliance on fossil fuels and lowers carbon emissions.



Our Commitment to Quality

At Expotech, we offer premium on-off grid solar converters that ensure efficiency, durability, and optimal performance, catering to all your energy needs.



DC Solar Water Pumps

Efficient Water Management Solutions

What Are DC Water Pumps?

DC water pumps are powered by direct current (DC) electricity, making them highly efficient for pumping water in remote or off-grid areas. These pumps are commonly used in agriculture, irrigation systems, and water supply applications. They provide a reliable and eco-friendly solution by operating directly on solar energy or battery power, reducing dependency on grid electricity.



Why Choose DC Water Pumps?

- **Energy Efficiency:** Powered by solar or battery systems, reducing electricity costs.
- **Eco-Friendly:** Uses renewable energy, minimizing environmental impact.
- **Durable:** Designed to withstand harsh outdoor conditions with minimal maintenance.
- **Cost-Effective:** Low operational costs and long-lasting performance.

Solar Energy Powered Drinking Water System



4

PRODUCT PERAMETRS



Mainframe size: 800*800* 1850mm (excluding photovoltaic)

Machine weight: 550kg



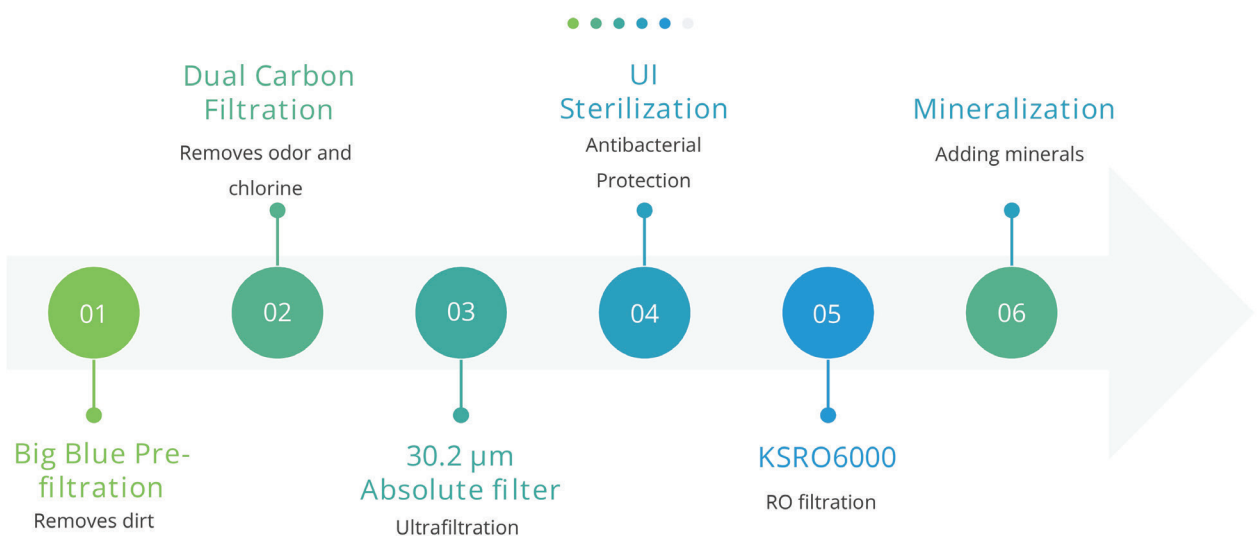
Inlet pressure: zero pressure water supply (or pressurized water supply)

Water discharge rate: 7.0 seconds/L



Operation mode: Unattended, one-click water delivery with card swipe, remote payment and recharge system.

FILTRATION PROCESS FLOW



PRODUCT ADVANTAGES

Zero-Pressure Water Supply with Smart Card-Based Dispensing

It features automatic monitoring of water intake, water output, water quality, and emergency alarms. Water can be dispensed with a smart card, reducing the need for daily manual supervision.

High-Efficiency Treatment of High-Concentration Groundwater

Effectively treats various high-content raw water sources including groundwater and river water, purifying them to meet or exceed bottled mineral water standards.

The system has a service life of over 20 years.

Fully Solar-Powered Operation

The system runs entirely on solar energy and can operate continuously for 3-5 rainy days without sunlight.

It is equipped with a smart dual power (solar panel and battery) control system that enables remote monitoring, automated processing, real-time adjustments.



MAJOR FEATURES

AI Dynamic Water Quality Monitoring Center

Uses special light sensors and quick-processing technology to create a water safety alert system. It can spot water quality problems in 10 minutes and send warnings to both the device and a cloud server at the same time.

Hydrological Digital Twin Platform

It can treat various types of surface water with a TDS value of less than 2000. After purification, the TDS value of the water can reach below 30, far exceeding the standard of high-quality drinking water with a TDS value of 50-100. It can remove pesticide residues in water and solve problems such as excessive heavy metals in water sources.

Smart Control

The smart management platform helps detect and resolve issues promptly. One technician can manage and maintain dozens of stations simultaneously, and local villagers can also be trained to handle simple maintenance tasks.

Intelligent Operation and Maintenance Cloud Brain System

Integrates remote Internet of Things module to realize self-diagnosis of equipment, life span warning of consumables and AR remote technical support.

AGRIVOLTAICS

We will be marketing 53 varieties of vegetable seed, 13 hybrid varieties and 19 high-yield varieties of rice seed, 14 hybrid varieties of maize seed, 5 varieties of potato seed (fresh potatoes of several Dutch varieties), wheat seed, pulse seed, and mustard seed. We are planning to export our goods to markets throughout the world, including those in the Middle East, CIS nations, Australia, America, South Africa, and Europe. We also intend to employ roughly 1000 marginal farmers throughout all Bangladeshi growing regions, which span 4 districts.



**DRAGON
FRUITS**



**CORN
FIELD**



MALTA



VEGETABLES



COW



GOAT



SHEEP



FISH

E-BUSES



Battery capacity is not only about range, but rather about having the right amount of energy installed for the operation. It is of utmost importance to determine a suitable energy level based on the specific needs and prerequisites, also factoring in aspects such as investment cost and battery weight.

The low-entry electric bus comes in two different chassis widths – 2500 and 2550 mm – and is suitable for usage all over the world in both medium and heavy-duty operations, in both Class I and Class II. Additionally, the two different axle gears available provide ratio options that work in even the most challenging topography.

LOW ENTRY BEV

Technical specifications

Chassis

Low entry

Chassis width

2500 mm & 2550 mm

Wheel configuration

2500 mm & 2550 mm

E-machine

240 kW, 270 kW, 300 kW and 330 kW
integrated 2- or 4- speed gearbox for optimised
energy consumption

Charging options

CCS Type 2
Front – up to 195 kW and 300 A
Rear – up to 325 kW and 500 A

* Calculated for 5-95% SOC at 500A

** Calculated with an energy throughput of 2,8 kWh/km (discharge + charge + regeneration)
Average of 12 000 low entry buses

5 Battery packs

Installed energy: 445 kWh
Usable energy: 400 kWh
Charging time: ~73 min (485 km/hour charge) *
Life length: ~ 1 125 000 km **

4 Battery packs

Installed energy: 356 kWh
Usable energy: 320 kWh
Charging time: ~ 62 min (460 km/hour charge) *
Life length: ~ 900 000 km **

3 Battery packs

Installed energy: 267 kWh
Usable energy: 240 kWh
Charging time: ~ 52 min (415 km/hour charge) *
Life length: ~ 675 000 km **

BATTERY ELECTRIC (BEV)

	Output (continuous)	Installed Energy	Usable Energy	Charging Options
Electric Machine	240 kW 270 kW 300 kW 330 kW	3 Battery Packs: 267 kWh 4 Battery Packs: 356 kWh 5 Battery Packs: 445 kWh	3 Battery Packs: 240 kWh 4 Battery Packs: 320 kWh 5 Battery Packs: 400 kWh	CCS Type 2 Front - up to 195 kW and 300 A Rear - up to 325 kW and 500 A

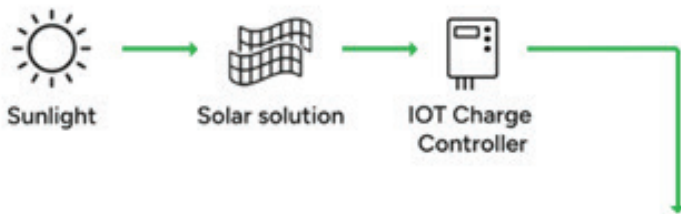
GEARBOX

Integrated 2- or 4-speed gearbox for optimised energy consumption



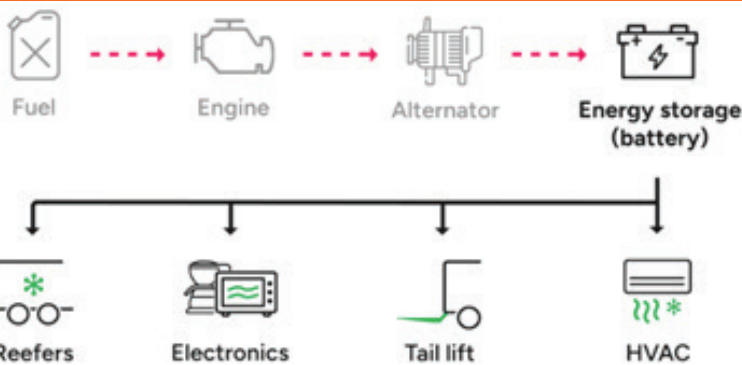
Solar Panel on BUSES, COACHES & CARS

How our solution works for transport



1. Green Energy solar panels are mounted to the roof

They convert sunlight into direct current (DC), whether you're driving or parked, and lessen the load on the engine and alternator to charge the battery.



2. Green Energy advanced IOT charge controller

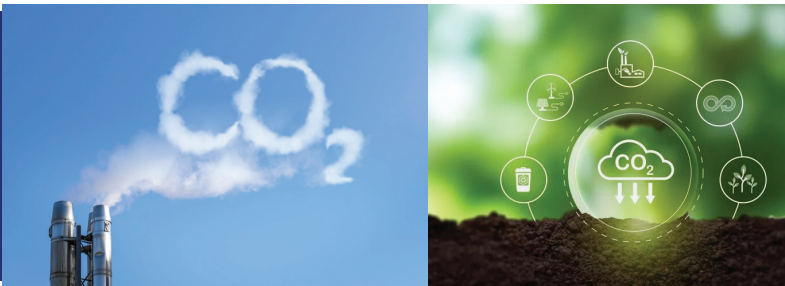
With the help of our advanced IoT charge controller, the solar energy gently charges the batteries and regulates the voltage and current.

3. The storage of energy produced by the solar panels

Any power generated by the solar panels which is not used upon production will instead be stored in the vehicle's battery until the vehicle needs it.

4. Reliable power vehicle's electrical systems

Your vehicle will now have a reliable source of power that is able to deliver power for various electrical systems and keep the battery charged.



These are some of the benefits you can achieve with our solar panels



Reduce the vehicle's fuel consumption by up to 12%



Increase the vehicle's battery life by up to 50%



Reduce the vehicle's carbon emissions

Reduce CO₂ Emissions

Choosing CIGS solar panels for buses leads to substantial reductions in CO₂ emissions, with annual reductions of up to 4,020 kg per bus. These benefits and savings become increasingly crucial with continuously tightening requirements and regulations for greener transport.

Improve Comfort

With reliable solar energy powering electronics such as the TV, microwave, air conditioning, and coffee machine, both drivers and passengers can experience increased comfort during travel. The solar solution can also provide power for light, power-intensive stairlifts and elevators to ensure the best possible travel experience for everyone.

Access Green Data

An important part of the CIGS solar panels for buses is an advanced charge controller with an integrated IoT system. This charge controller's MPPT function provides insights into solar panel efficiency and enables accurate reporting of fuel and CO₂ reductions via an app. This access to data can be used in CO₂ calculations and reporting and serve as your licence to operate in a sustainable future.

EPBT, or Energy Pay Back Time, measures how long it takes for a solar panel to generate as much electricity as was used to manufacture it. Compared to C-Si solar cells, CIGS cells have a significantly quick EPBT:

- ✓ CIGS cells average only 1.7 years.
- ✓ Our company has achieved an impressive EPBT of just 1 year,
- ✓ Thanks to our ongoing efforts to minimize resource consumption.

#6 OUR

Work Process

Initial Survey



Finalization of Contract



Detail Survey & Design



Civil Works



Procurement & Delivery



Installation



Final Inspection



Net Metering



Project End



#7

Merchant Power Plants Location



 400 MW (AC)
 Karerhat, Mirsarai



 400 MW (AC)
 Baroihat, Mirsarai



 400 MW (AC)
 Anwara, Chottogram



 400 MW (AC)
 Lalmonirhat



 400 MW (AC)
 Cox's Bazar South



 400 MW (AC)
 Monirampur, Jessore



 245 MW (AC)
 Fatikchari, Chottogram



 200 MW (AC)
 Sitakunda



 270 MW (AC)
 Pekua



 200 MW (AC)
 Hathazari



 200 MW (AC)
 Hobiganj, Nabigong



গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
উপজেলা কৃষি অফিসারের কার্যালয়
মীরসরাই, চট্টগ্রাম।
www.dae.mirsharai.chittagong.bd

কৃষিই সমৃদ্ধি

স্মারকনং : ১২.১১.১৫৫৩.০৩৯.০১৪.০০১.২২-৩২৬

তারিখ: ১৪ জুলাই ২০২৫খ্রি.

বিষয়: Tender Package No: 4, স্মারক : 27.11.0000.101.14.013.25-724, তারিখ : 19.03.2025 এ অংশগ্রহণের জন্য 200 মেগাওয়াট এবং Merchant Power Plant Agreement, Sharok No: 27.00.0000.071.99.009.24.387, Date : 07 May 2025 এ 200 মেগাওয়াট সর্বমোট 200+200 = 400 মেগাওয়াট grid tied solar power plant near to Korerhat, Mirsharai, Chattogram 400/132/33 kv Grid Sub Station & Supply of Electrical Energy প্রকল্পে উল্লিখিত অকৃষি/একফসলী/ দুইফসলী/ তিনফসলী শ্রেণীভুক্ত জমি কিনা সে মর্মে (NOC) প্রেরণ।

সূত্র : আপনার কার্যালয়ের ০৩ জুন ২০২৫খ্রি. তারিখের EXPORENEW/2025/NOC 400 MW (AC) মূলে।

উপর্যুক্ত বিষয় ও সূত্রের আলোকে আপনার অবগতি ও প্রয়োজনীয় ব্যবস্থা গ্রহণের জন্য জানানো যাচ্ছে যে, মীরসরাই উপজেলার পূর্বহিসুলী মৌজায় ExpoTech Renewable Energy Limited কর্তৃক সর্বমোট 200+200 = 400 মেগাওয়াট grid tied solar power plant near to Korerhat, Mirsharai, Chattogram 400/132/33 kv Grid Sub Station & Supply of Electrical Energy প্রকল্পের জন্য উল্লিখিত জমি অকৃষি/একফসলী/ দুইফসলী/ তিন ফসলী শ্রেণীভুক্ত জমি কিনা সে মর্মে (NOC) প্রেরণ করা হলো।

সংযুক্ত:

- ০১। প্রত্যয়ন পত্র(NOC) : ০১ ফর্দ
০২। জমির বিবরণ : ০১ ফর্দ

Pratibha
(প্রতাপ চন্দ্র রায়) ১৪/০৭/২৫
উপজেলা কৃষি অফিসার
মীরসরাই, চট্টগ্রাম।
মোবাইল: ০১৭১৮-০৬৬৬৮৪
ই-মেইল: uao.mirsharai@gmail.com

✓ প্রাপক,
মোঃ সামসুল আরেফিন
সিইও অ্যান্ড ম্যানেজিং ডিরেক্টর
এক্সপোটেক রিনিউয়েবল এনার্জি লিমিটেড
হোম বিভাগ্স প্লাজা, ৩৬ মিরপুর রোড
বসুন্ধরা গলি, ধানমন্ডি, ঢাকা-১২১৫।

স্মারকনং : ১২.১১.১৫৫৩.০৩৯.০১৪.০০১.২২-৩২৬ (২)

তারিখ: ১৪ জুলাই ২০২৫খ্রি.

অনুলিপি সদয় অবগতির জন্য প্রেরণ করা হলো :

- ০১। উপপরিচালক, কৃষি সম্প্রসারণ অধিদপ্তর, ঝামারবাড়ি, চট্টগ্রাম।
০২। অফিস নথি।

উপজেলা কৃষি অফিসার
মীরসরাই, চট্টগ্রাম।
মোবাইল: ০১৭১৮-০৬৬৬৮৪
ই-মেইল: uao.mirsharai@gmail.com

NOC for Merchant Power Plant ExpoTech Renewable Energy Ltd.



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Department of Agricultural Extension
Ministry of Agriculture
Office of the Upazilla Agriculture Officer
Mirsharai, Chattogram



Memo No .12.18.1553.039.014.001.22-327

Date : 14 July 2025

No Objection Certificate (NOC)

It is to be certified that, the nature of the proposed land from ExpoTech Renewable Energy Limited for implementing a 400 MW (AC) grid tied solar power plant near to Korerhat, Mirsharai, Chattogram, 400/132/33 kv Grid Sub Station & Supply of Electrical Energy (Under Construction) J.L no 11, Mouza : East Hinguli, Mirsharai, Chattogram is non-agricultural/ single- Cropped land. The Schedule of the proposed non agricultural/single- Cropped land (Attachment-1(1to 19 pages) is hereby attached.

Protap Chandra Roy 14.07.25

(Protap Chandra Roy)
Upazila Agriculture Officer
Mirsharai, Chattogram
Cell No : 01718-066684

**NOC for Merchant Power Plant
ExpoTech Renewable Energy Ltd.**



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Government of the People's Republic of Bangladesh
Upazila Land office
Fatikchhari, Chattogram
www.acl.fatikchhari.chittagong.gov.bd

Memo no: 31.42.1533.000.99.001.25-388

Date-08.05.2025

No objection Certificate

It is to be Certified that proposed land by Expotech Renewable Energy Ltd. for implementing a 245 MW (Ac) Solar plant at Hasnabad mouza under Narayanhat union land office, fatikchhari, chattogram is found to be non-agricultural and single cropped in nature according to the reports of the Upazila Agricultural officer, Kanungo & ULAO respectively.

No government interest or claim (except land development tax) is involved with the proposed land. The schedule of the proposed land (attachment-1) is attached hereby.

Islam

08.05.2025

Md. Nazrul Islam

Assistant Commissioner (Land)

Fatikchhari, Chattogram.

E-mail: aclandfatikchhari2020@gmail.com

**NOC for Merchant Power Plant
ExpoTech Renewable Energy Ltd.**



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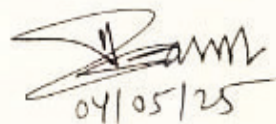
Government of the People's Republic of Bangladesh
Office Of Upazila Agriculture Officer
Fatikchari, Chattogram
Email- uofatikchari@gmail.com



Date: 04/05/2025

No Objection Certificate (NOC)

It is to be certified that, the nature of the proposed land for implementing a 245 MW (AC) solar power plant at Hasnabad. J.L No: 09,10 and 18 Fatikchari, Chattogram is non-agricultural/Single-cropped land. The schedule of the proposed non-agricultural/Single-cropped land (Attachment-1) is hereby attached.



04/05/25

Md. Hasanuzzaman
Upazila Agriculture Officer
Fatikchari, Chattogram
Cell phone: 01712907878
E-mail- uofatikchari@gmail.com

**NOC for Merchant Power Plant
ExpoTech Renewable Energy Ltd.**



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গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
উপজেলা কৃষি অফিসারের কার্যালয়
ফটিকছড়ি, চট্টগ্রাম

স্মারক নং: ১২.১৮.১৫৩৩.০৪১.১১.০৮১.২৫.৬৯১

তারিখ: ০৪/০৫/২০২৫ খ্রি.

বিষয়: 245 MW (AC) Grid tied solar power plant 132/33 kv Grid Sub-station & Supply of Electrical পূরণকল্পে নবায়নযোগ্য জ্বালানী নির্ভর বিদ্যুৎ কেন্দ্র নির্মাণের জন্য প্রত্যয়ন (NOC) প্রেরণ।

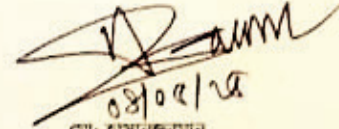
সূত্র: মহোদয়ের কার্যালয়ের স্মারক নং: ১২.১৭.১৫৩৩.০৪০.৯৯.০০১.২৩.১০২২ তারিখ: ২৯/০৪/২০২৫ খ্রি.

উপর্যুক্ত বিষয় ও সূত্রের আলোকে মহোদয়ের সদয় অবগতি ও প্রয়োজনীয় ব্যবস্থা গ্রহণের নিমিত্তে ফটিকছড়ি উপজেলার হাসানুজ্জামান মৌজায় EXPOTECH RENEWABLE ENERGY Ltd. কর্তৃক 245 MW (AC) Grid tied solar power plant 132/33 kv Grid Sub-station & Supply of Electrical পূরণকল্পে নবায়নযোগ্য জ্বালানী নির্ভর বিদ্যুৎ কেন্দ্র নির্মাণের জন্য প্রত্যয়ন (NOC) প্রাপ্তিসংগে প্রেরণ করা হলো।

সংযুক্ত: ১। প্রত্যয়নপত্র (NOC): ০১ ফর্দ।

প্রাপক

উপপরিচালক
কৃষি সম্প্রসারণ অধিদপ্তর
চট্টগ্রাম


০৪/০৫/২৫
মো: হাসানুজ্জামান
উপজেলা কৃষি অফিসার
ফটিকছড়ি, চট্টগ্রাম

সিটি ক্যান্সার

NOC for Merchant Power Plant ExpoTech Renewable Energy Ltd.

#8

OUR

Documents

Issue No. ৪/২৪৭-৭৩



Certificate of Incorporation

No. **C-121895 /15**

I hereby certify that..... **Best Accurate**

Consultancy Services Ltd.

is this day incorporated under the Companies Act (Act XVIII) of 1994
and that the Company is Limited.

Given under my hand at **Dhaka**

this..... **Nineteenth** day of..... **March**

two thousand..... **Fifteen**



.....
Assistant Registrar of Joint Stock Companies & Firms,
Bangladesh.

J.S.C.-34

Certificate of Incorporation ExpoTech Renewable Energy Ltd.



EXPOTECH RENEWABLE ENERGY LTD.
Tomorrow's Energy, Today



EXPOTECH INNOVATION LTD.
LET SOLAR BE THE POWER



Expo Tech UK Limited
Let Solar Be In Every Vehicle



Office of the Registrar of Joint Stock Companies & Firms

Certificate of Incorporation pursuant to change of name
[Pursuant to section 11 sub-section (7) of the Companies Act, 1994]

No. C-121895

I hereby certify that pursuant to the provisions of section 11 sub-section (7) Act, XVIII of 1994 (Companies Act, 1994) the name of the company has been changed from **Best Accurate Consultancy Services Ltd.** to **ExpoTech Renewable Energy Limited** with effect from the date of issue of this certificate and that the company is limited.

Given under my hand at **Dhaka** this **Fourth** day of **May** two thousand and twenty-five.

Assistant Registrar
Joint Stock Companies & Firms
Bangladesh



N.B. This certificate is digitally signed. Please find the soft copy to verify the signature.

Joint Stock Companies & Farms Certificate ExpoTech Renewable Energy Ltd.



Government of the People's Republic of Bangladesh

National Board of Revenue

Taxpayer's Identification Number (TIN) Certificate

TIN : 798207635758

This is to Certify that **ExpoTech Renewable Energy Limited change from Best Accurate Consultancy Services Ltd.** is a Registered Taxpayer of National Board of Revenue under the jurisdiction of **Taxes Circle-470 (Company)** , Taxes Zone 22, Dhaka.

Taxpayer's Particulars :

- 1) Name : **ExpoTech Renewable Energy Limited change from Best Accurate Consultancy Services Ltd.**
- 2) Registered Address/Permanent Address : **Home Builders Plaza, Flat no-B/6, 36 Mirpur Road, Bashundhara Goli, Dhanmondi, Dhaka, Bangladesh**
- 3) Current Address : **Home Builders Plaza, Flat no-B/6, 36 Mirpur Road, Bashundhara Goli, Dhanmondi, Dhaka**
- 4) Previous TIN : **Not Applicable**
- 5) Status : **Company**

Date : May 06, 2025

Please Note:

1. A Taxpayer is liable to file the Return of Income under section 166 of the Income Tax Act, 2023.
2. Failure to file Return of Income under Section 166 is liable to-
 - (a) Penalty under section 266; and
 - (b) Prosecution under section 311 of the Income Tax Act, 2023.



Deputy Commissioner of Taxes
Taxes Circle-470 (Company)
Taxes Zone 22, Dhaka
Address : 32 Garib-e-newaz Avenue, Sector-13, Uttara,
Dhaka Phone :

N.B. This is a system generated certificate and requires no manual signature.

TIN Certificate of ExpoTech Renewable Energy Ltd.



EXPOTECH RENEWABLE ENERGY LTD.
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ঢাকা দক্ষিণ সিটি কর্পোরেশন

www.dscc.gov.bd



লাইসেন্স ইস্যুর বিবরণ

ই-ট্রেড লাইসেন্স

ইস্যুর তারিখ : 07/05/2025
ইস্যুর সময় : 17:10:02

লাইসেন্স নং : TRAD/DSCC/037674/2024

স্থানীয় সরকার (সিটি কর্পোরেশন) আইন, ২০০৯ (২০০৯ সনের ৬০ নং আইন) এর ধারা ৮৪-তে প্রদত্ত ক্ষমতাবলে সরকার প্রণীত আদর্শ কর তফসিল, ২০১৬ এর ১০ অনুচ্ছেদ অনুযায়ী ব্যবসা, বৃত্তি, পেশা বা শিল্প প্রতিষ্ঠানের উপর আরোপিত কর আদায়ের লক্ষ্যে নিম্নবর্ণিত ব্যক্তি/প্রতিষ্ঠানের আনুকূলে অত্র ট্রেড লাইসেন্সটি ইস্যু করা হলো।

১। ব্যবসা প্রতিষ্ঠানের নাম	: এক্সপোটেক রিনিউএবল এনার্জী লিমিটেড		
২। প্রতিষ্ঠানের মালিকের নাম	: মোঃ সামসুল আরেফিন (ব্যবস্থাপনা পরিচালক)		
৩। পিতা / স্বামীর নাম	: এ বি এম জুবাব আলী		
৪। মাতার নাম	: মোসাঃ বদরুন্নেসা		
৫। ব্যবসার প্রকৃতি	: লিমিটেড কোম্পানী		
৬। ব্যবসার ধরণ	: আমদানী, রপ্তানী, সরবরাহকারী, সেলার পাওয়ার প্রাক্ট (অফিস)		
৭। প্রতিষ্ঠানের ঠিকানা	: ৩৬, মিরপুর, ফ্লাট-বি-৬, হোম বিল্ডার্স প্রজেক্ট, বসুন্ধরা গলি, নিউমার্কেট, ঢাকা-১২০৫		
৮। অঞ্চল / বাজার শাখা এলাকা	: ১	ওয়ার্ড / মার্কেট:	১৮
৯। এনআইডি/পাসপোর্ট/জন্ম নিবনং ফোন	: ১৯৭৯০৯১০৩৮ ০১৭৯০৯৮০৭১০	বিআইএন নং:	
		ই-মেইল:	
১০। অর্থ বছর	: ২০২৪-২০২৫ (নতুন)	ব্যবসা শুরু তারিখ:	০৬/০৫/২০২৫
১১। মালিকের বর্তমান ঠিকানা		মালিকের স্থায়ী ঠিকানা	
হোমিং নং	: ৩৬, ফ্লাট-বি-৬, হোম বিল্ডার্স প্রজেক্ট	হোমিং নং	:
রোড নং	:	রোড নং	:
গ্রাম / মহলা	: মিরপুর রোড	গ্রাম / মহলা	: এ
পোস্টকোড	: নিউ মার্কেট - ১২০৫	পোস্টকোড	:
থানা	: নিউ মার্কেট	থানা	:
জেলা	: ঢাকা	জেলা	:
বিভাগ	: ঢাকা	বিভাগ	:
১২। ট্রেড লাইসেন্স/নবায়ন ফি (বার্ষিক)			
লাইসেন্স/নবায়ন ফি	: ২০০০	সাইনবোর্ড কর	: ৮০০
সারচার্জ	: ০	ভ্যাট	: ৪২০
আয়কর / উৎসেকর	: ০	ফর্ম ফি	: ৫০.০০
বকেয়া ()	: ০		
সংশোধনী ফি	: ০.০০	সর্বমোট	: ৩২৭০.০০

অত্র ট্রেড লাইসেন্স এর মেয়াদ ৩০ শে জুন, ২০২৫ পর্যন্ত



লাইসেন্স ও বিজ্ঞাপন সুপারভাইজার

কর কর্মকর্তা

Trade License of ExpoTech Renewable Energy Ltd.



EXPOTECH RENEWABLE ENERGY LTD.
Tomorrow's Energy, Today



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ExpoTech UK Limited
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#9

OUR

Documents

ঢাকা উত্তর সিটি কর্পোরেশন

www.dncc.gov.bd



লাইসেন্স ইস্যুর বিবরণ

ইস্যুর তারিখ : 31/10/2024
ইস্যুর সময় : 18:34:09

ই-ট্রেড লাইসেন্স

লাইসেন্স নং : TRAD/DNCC/019215/2024



স্থানীয় সরকার (সিটি কর্পোরেশন) আইন, ২০০৯ (২০০৯ সনের ৬০ নং আইন) এর ধারা ৮৪-তে প্রদত্ত ক্ষমতাবলে সরকার প্রণীত আদর্শ কর তফসিল, ২০১৬ এর ১০ অনুচ্ছেদ অনুযায়ী ব্যবসা, বৃত্তি, পেশা বা শিল্প প্রতিষ্ঠানের উপর আরোপিত কর আদায়ের লক্ষ্যে নিয়ে বর্ণিত ব্যক্তি/প্রতিষ্ঠানের আনুকূলে অত্র ট্রেড লাইসেন্সটি ইস্যু করা হলো।

১। ব্যবসা প্রতিষ্ঠানের নাম	: এক্সপো-টেক ইনোভেশন লিঃ	
২। ব্যবসা প্রতিষ্ঠানের মালিকের নাম	: মোঃ সামসুল আরেফিন (ব্যবস্থাপনা পরিচালক)	
৩। পিতা/স্বামীর নাম	: এ বি এম জনাব আলী	
৪। মাতার নাম	: মোসাঃ বদরুন্নেসা	
৫। ব্যবসার প্রকৃতি	: লিমিটেড কোম্পানী	
৬। ব্যবসার ধরণ	: আমদানী, রপ্তানী, সরবরাহকারী (মহা পদার্থ ও ক্যামিকেল ব্যতিত), সোলার পাওয়ার প্ল্যান্ট (অফিস)	
৭। ব্যবসা প্রতিষ্ঠানের ঠিকানা	: প্লট-৩৪, (৫ম তলা) রোড-৪৬, গুলশান-২, ঢাকা-১২১২	
৮। অঞ্চল/ডিএনসিসি র নিজস্ব মার্কেট	: ৩ মহাখালী	ওয়ার্ড: ১৯
৯। এনআইডি/পাসপোর্ট/জন্ম নিবন্ধন নং	: ১৯৭৯০৯১০৩৮	টিআইএন/বিআইএন নং:
মোবাইল নম্বর	: ০১৭৯৩৯৪০৭১০	ই-মেইল: dnccinfo60@gmail.com
১০। অর্থ বছর	: ২০২৪-২০২৫ (নতুন)	ব্যবসা শুরুর তারিখ: ২৮/১০/২০২৪
১১। মালিকের বর্তমান ঠিকানা	: মালিকের স্থায়ী ঠিকানা	
হোল্ডিং নং	: হোম বিন্ডার্স প্রাজা ফ্যাট বি-৬	হোল্ডিং নং
রোড নং	: ৩৬, মিরপুর রোড	রোড নং
গ্রাম / মহল্লা	: বসুন্ধরা গলি, নিউমার্কেট	গ্রাম / মহল্লা
পোস্ট কোড	: ১২০৫	পোস্ট কোড
থানা	: থানা	থানা
জেলা	: ঢাকা	জেলা
বিভাগ	: ঢাকা	বিভাগ
১২। আদর্শ কর তফসিল, ২০১৬ এর ক্রমিক নং		
১৩। ট্রেড লাইসেন্স ফি (নতুন/নবায়ন)		
লাইসেন্স নবায়ন ফি	: ৪৫০০	সাইনবোর্ড কর (পরিচিতিমূলক)
সারচার্জ	: ০	ভ্যাট
আয়কর / উৎসেকর	: ০	বই মূল্য
বকেয়া ()	: ০	ফর্ম ফি
সংশোধনী ফি	: ০.০০	অন্যান্য ফি
		সর্বমোট

অত্র ট্রেড লাইসেন্স এর মেয়াদ ৩০ শে জুন, ২০২৫ পর্যন্ত



লাইসেন্স ও বিজ্ঞাপন সুপারভাইজার



কর কর্মকর্তা

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ExpoTECH Renewable Energy Ltd.
Tomorrow's Energy, TodayExpoTECH INNOVATION LTD.
LET SOLAR BE THE POWERExpo Tech UK Limited
Let Solar Be In Every Vehicle



Certificate of Incorporation (under Act XVIII of 1994)

No. **C-195844/2024**

*I hereby certify that **ExpoTech Innovation Ltd.** is this day incorporated under the Companies Act (Act XVIII) of 1994 and that the Company is Limited.*

*Given under my hand at **Dhaka** this **Twelfth** day of **June** two thousand and twenty-four.*

*By order of
Registrar*

*Assistant Registrar
Registrar of Joint Stock Companies & Firms
Bangladesh*



N.B. This certificate is digitally signed. Please find the soft copy to verify the signature.

Certificate of Incorporation ExpoTech Innovation Ltd.



EXPOTECH RENEWABLE ENERGY LTD.
Tomorrow's Energy, Today



EXPOTECH INNOVATION LTD.
LET SOLAR BE THE POWER



ExpoTech UK Limited
Let Solar Be In Every Vehicle

#10

OUR

Documents

ঢাকা দক্ষিণ সিটি কর্পোরেশন

www.dscc.gov.bd



লাইসেন্স ইস্যুর বিবরণ



ই-ট্রেড লাইসেন্স

ইস্যুর তারিখ : 02/12/2024
ইস্যুর সময় : 18:15:06

লাইসেন্স নং : TRAD/DSCC/021888/2024

স্থানীয় সরকার (সিটি কর্পোরেশন) আইন, ২০০৯ (২০০৯ সনের ৬০ নং আইন) এর ধারা ৮৪-তে প্রদত্ত ক্ষমতাবলে সরকার প্রণীত আদেশ কর্তৃক তফসিল, ২০১৬ এর ১০ অনুচ্ছেদ অনুযায়ী ব্যবসা, বৃত্তি, পেশা বা শিল্প প্রতিষ্ঠানের উপর আরোপিত কর আদায়ের লক্ষ্যে নিম্নবর্ণিত ব্যক্তি/প্রতিষ্ঠানের আনুকূলে অত্র ট্রেড লাইসেন্সটি ইস্যু করা হলো।

১। ব্যবসা প্রতিষ্ঠানের নাম	: এক্সপো টেক ইউকে লিমিটেড	
২। প্রতিষ্ঠানের মালিকের নাম	: মোঃ সামসুল আরেফিন	
৩। পিতা/স্বামীর নাম	: এ বি এম জনাব আলী	
৪। মাজার নাম	: মোসাঃ বদরুন্নেসা	
৫। ব্যবসার প্রকৃতি	: লিমিটেড কোম্পানী	
৬। ব্যবসার ধরণ	: আমদানীকারক, রপ্তানীকারক, সরবরাহকারী, সোলার প্যানেল উৎপাদন	
৭। প্রতিষ্ঠানের ঠিকানা	: হোম বিল্ডাস প্রাজা, ৩৬ মিরপুর রোড, ফ্ল্যাট নং-বি-৬, বসুন্ধরা গলি নিউ মার্কেট-১২০৫ নিউ মার্কেট ঢাকা	
৮। অঞ্চল/বাজার শাখা এলাকা	: ১ ওয়ার্ড/মার্কেট: ১৯	
৯। এনআইডি/পাসপোর্ট/জন্ম নিব: নং ফোন	: 1979091038 01793940710	বিআইএন নং: ই-মেইল:
১০। অর্থ বছর	: ২০২৪-২০২৫ (নতুন)	ব্যবসা শুরুর তারিখ: ০২/১২/২০২৪
১১। মালিকের বর্তমান ঠিকানা	হোম বিল্ডাস প্রাজা, ৩৬, ফ্ল্যাট নং-বি-৬	মালিকের স্থায়ী ঠিকানা
হোমিং নং	: হোম বিল্ডাস প্রাজা, ৩৬, ফ্ল্যাট নং-বি-৬	হোমিং নং
রোড নং	: নিউ মার্কেট	রোড নং
গ্রাম/মহল্লা	: বসুন্ধরা গলি নিউ মার্কেট-১২০৫	গ্রাম/মহল্লা
পোস্টকোড	: থানা	পোস্টকোড
থানা	: ঢাকা	থানা
জেলা	: বিভাগ	জেলা
বিভাগ		বিভাগ
১২। ট্রেড লাইসেন্স/নবায়ন ফি(বার্ষিক)		
লাইসেন্স/নবায়ন ফি	: ৩৫০০	সাইনবোর্ড কর
সারচার্জ	: ০	ভ্যাট
আয়কর/উৎসেকর	: ০	ফর্ম ফি
বকেয়া ()	: ০	
সংশোধনী ফি	: ০.০০	সর্বমোট
		৬৪০
		৬২১
		৫০.০০
		৪৮১১.০০

অত্র ট্রেড লাইসেন্স এর মেয়াদ ৩০ শে জুন, ২০২৫ পর্যন্ত

লাইসেন্স ও বিজ্ঞাপন সুপারভাইজার

কর কর্মকর্তা

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Tomorrow's Energy, TodayExpoTECH INNOVATION LTD.
LET SOLAR BE THE POWERExpo Tech UK Limited
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Certificate of Incorporation (under Act XVIII of 1994)

No. C-198842/2024

*I hereby certify that **Expo Tech UK Limited** is this day incorporated under the Companies Act (Act XVIII) of 1994 and that the Company is Limited.*

*Given under my hand at **Dhaka** this **Twenty-Sixth** day of **November** two thousand and twenty-four.*

*By order of
Registrar*

*Assistant Registrar
Registrar of Joint Stock Companies & Firms
Bangladesh*



N.B. This certificate is digitally signed. Please find the soft copy to verify the signature.

Certificate of Incorporation ExpoTech UK Limited



EXPOTECH RENEWABLE ENERGY LTD.
Tomorrow's Energy, Today



EXPOTECH INNOVATION LTD.
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ExpoTech UK Limited
Let Solar Be In Every Vehicle

#11

OUR

Documents

ঢাকা সিটি কর্পোরেশন, ঢাকা।
রাজস্ব বিভাগ (অঞ্চল-০৫)
নগর ভবন (১২তলা), ঢাকা।
ফোন ৪-৯৫৫০৭৯০

(নবায়ন পাতা)



ট্রেড লাইসেন্স
(TRADE LICENCE)

No: 0509914

লাইসেন্সধারী কর্তৃক চালানোর সাথে হাল মাসের ভাড়ার রশিদ/রশিদের ফটোকপি, দাখিলক্রমে ফি/কর নির্ধারিত চালানে ব্যাংকে জমা প্রদান এবং ব্যাংক কর্তৃপক্ষের স্বাক্ষর করপোরেশনের পক্ষে লাইসেন্স নবায়নের স্বীকৃতি বলে গণ্য হবে।

নবায়ন কার্যকারিতার মেয়াদ ২০০৮-২০০৯

১। জমার তারিখ : ০৫/০৭/০৮

২। লাইসেন্স বই নম্বর : ০৫০৯১২৪ চালান বই নম্বর : ২

৩। টাকার পরিমাণ : লাইসেন্স/নবায়ন ফি = ১,৫০০/-
সাইনবোর্ড কর = ৮০০/-
সারচার্জ =
মোট টাকা (অংকে) = ২,৩০০/-
মোট টাকা (কথায়) = দুই হাজার ত্রিশ টাকা

ক্রম নম্বর : ২৭০ তারিখ : ০৫/০৭/০৮

ব্যাংক ক্যাশিয়ারের স্বাক্ষর ও সীল (ব্যাংকের সীল) মোঃ মোস্তফা কামাল
উপ-হিসাব রক্ষক
সোনালী ব্যাংক লিমিটেড
নগর ভবন শাখা
ঢাকা।

নবায়ন কার্যকারিতার মেয়াদ ২০০৯-২০১০

১। জমার তারিখ : ০৫/০৭/০৮

২। লাইসেন্স বই নম্বর : চালান বই নম্বর : ২

৩। টাকার পরিমাণ : লাইসেন্স/নবায়ন ফি = ১,৫০০/-
সাইনবোর্ড কর = ৮০০/-
সারচার্জ =
মোট টাকা (অংকে) = ২,৩০০/-
মোট টাকা (কথায়) = দুই হাজার ত্রিশ টাকা

ক্রম নম্বর : ২৭০ তারিখ : ০৫/০৭/০৮

ব্যাংক ক্যাশিয়ারের স্বাক্ষর ও সীল (ব্যাংকের সীল) Sontosh Chakma
Asset Officer
Grade-1 (Cashier)

ব্যাংক কর্মকর্তার স্বাক্ষর ও সীল Md. Nazim Islam
Officer

পৃষ্ঠা-৪

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EXPOTECH RENEWABLE ENERGY LTD.
Tomorrow's Energy, Today



EXPOTECH INNOVATION LTD.
LET SOLAR BE THE POWER



ExpoTech UK Limited
Let Solar Be In Every Vehicle

#12 OUR

Documents

ঢাকা দক্ষিণ সিটি কর্পোরেশন, ঢাকা।
রাজস্ব বিভাগ (অঞ্চল-০১)
নগর ভবন, (১২ তলা), ঢাকা।
ফোনঃ- ৯৫৫০৭৯০

লাইসেন্স ইস্যুর বিবরণ

ওয়ার্ড নম্বর	ইস্যুর ক্রমিক নম্বর	ইস্যুর তারিখ
৯৮	৪৫৬৮	২০-১০-১৩

ট্রেড লাইসেন্স
(TRADE LICENCE)
No : 0119038

স্থানীয় সরকার (সিটি কর্পোরেশন) আইন, ২০০৯ এর ধারা ৮৪ এর প্রদত্ত ক্ষমতা বলে সরকার প্রণীত আদর্শ কর তফসীল, ২০০২ এর ৬ অনুচ্ছেদ অনুযায়ী পেশা, ব্যবসা-বানিজ্য এবং জীবিকা-বৃত্তির উপর আরোপিত কর আদায়ের লক্ষ্যে নিম্নবর্ণিত ব্যক্তি/প্রতিষ্ঠানের অনুকূলে অত্র ট্রেড লাইসেন্সটি ইস্যু করা হলো। যার কার্যকারিতার মেয়াদ অত্র ট্রেড লাইসেন্স এর ৪ ও ৫ নং পৃষ্ঠায় উল্লেখিত সময় পর্যন্ত বলবৎ থাকবে।

১। মালিকের নাম : ডঃ আব্দুল আমজাদ
২। পিতা/স্বামীর নাম : প্রফেসর এম. বি. সিদ্দিক জামান আলী
৩। মাতার নাম : বকুলেছমা শিগম
৪। মালিকের ঠিকানা : বর্তমান বসবাসের ঠিকানা : হোন্ডিং নং : ৩৬/বি-৬ জি.পি.ও. স্ট্রিট, রোড নং : থানা : বানস্ফাতি, ঢাকা (পোস্ট কোড) : স্থায়ী/রেজিস্টার্ড ঠিকানা : হোন্ডিং নং/গ্রাম : মিরনগর কাকি, রোড নং/পোস্ট অফিস : জি.পি.ও. থানা : জেলা : সুরমতপুর।

৫। ব্যবসা প্রতিষ্ঠানের নাম : বুরুসফের টেক ইন্ডে
৬। পরিশোধিত মূলধন (লিঃ কোম্পানীর ক্ষেত্রে) : ঢাকা
৭। ব্যবসা প্রতিষ্ঠানের ঠিকানা : ৩৬/বি-৬ জি.পি.ও. স্ট্রিট, হোন্ডিং বিল্ডিং নম্বর : ১৮৩৮
৮। ব্যবসার ধরণ : বর্তমান মর্মে
৯। আদর্শ কর তফসিল ২০০২ এর ক্রমিক নং :
১০। ট্রেড লাইসেন্স/নবায়ন ফি (বার্ষিক) : টাকা (অংকে) : ২৫০০/- (কথায়) : দুই হাজার পাঁচশত টাকা।
১১। সাইনবোর্ড কর (বার্ষিক) : টাকা (অংকে) : ৪০০/- (কথায়) : চারশত টাকা।
১২। ইস্যুকৃত চালান : বই নম্বর : ৩১১৯০৩৮

লাইসেন্সধারীর নিকট হতে সকল বকেয়া পাওনা বিবরণ রশিদ নম্বর : , তাং : এর মাধ্যমে আদায় করা হয়েছে।
(লাইসেন্সটি) : ২৮/৮ নম্বর ডি.সি.আর. বইয়ের : ২৪৪ পৃষ্ঠায় লিপিবদ্ধ করা হয়েছে।

পাইসেন্ট্রাল বিজ্ঞাপন সুপারভাইজার
(নাম ও পদবীসহ সীল)
২০/১০/১৩
শেখ বাকুলের আমল
নগর ও পদবীসহ সীল
অঞ্চল-০১
ঢাকা দক্ষিণ সিটি কর্পোরেশন

কর আদায়
অঞ্চল-০১
(নাম ও পদবীসহ সীল)

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ঢাকা দক্ষিণ সিটি কর্পোরেশন, ঢাকা।
রাজস্ব বিভাগ (অঞ্চল-০১)
নগর ভবন, (১২ তলা), ঢাকা।
ফোন :- ৯৫৫০৭৯০

(নবায়ন পাতা)



ট্রেড লাইসেন্স
(TRADE LICENCE)

No : 0119038

লাইসেন্সধারী কর্তৃক চালানোর সাথে হাল মাসের আড়ার রশিদ/ রশিদের ফটোকপি দাখিলক্রমে ফি/ কর নির্ধারিত চালানে ব্যাংকে জমা প্রদান এবং ব্যাংক কর্তৃপক্ষের স্বাক্ষরই কর্পোরেশনের পক্ষে লাইসেন্স নবায়নের স্বীকৃতি বলে গণ্য হবে।

নবায়ন কার্যকারিতার মেয়াদ ২০১৩-২০১৪ খ্রিঃ

১। জমার তারিখ : ২০-১১-১৬ ২।
২। লাইসেন্স বই নম্বর : ০১১২০৬৮ চালান বই নম্বর ০১
৩। টাকার পরিমাণ : লাইসেন্স/ নবায়ন ফি = ১২০০/-
সাইনবোর্ড কর = ৪০০/-
সারচার্জ =
মোট টাকা (অংকে) = ১৬০০/-
মোট টাকা (কথায়) = এক হাজার ছয়শত মাত্র পঞ্চাশ টাকা
জল নম্বর ১২৭ তারিখ ১৬/১১/১৩
ব্যাংক কাশিয়ারের স্বাক্ষর ও সীল (ব্যাংকের সীল) ব্যাংক কর্মকর্তার স্বাক্ষর ও সীল

নবায়ন কার্যকারিতার মেয়াদ ২০১৪-২০১৫ খ্রিঃ

১। জমার তারিখ :
২। লাইসেন্স বই নম্বর : চালান বই নম্বর
৩। টাকার পরিমাণ : লাইসেন্স/ নবায়ন ফি = ২০০০/২০১৫
সাইনবোর্ড কর =
সারচার্জ = ৭৫৫৭
মোট টাকা (অংকে) = ২৭৫৫৮
মোট টাকা (কথায়) = দুই হাজার সাতশত পঞ্চাশ টাকা মাত্র
জল নম্বর তারিখ
ব্যাংক কাশিয়ারের স্বাক্ষর ও সীল মোঃ ইফতেখার আলম
(ব্যাংকের সীল) লাইসেন্স ও বিজ্ঞপন সুপারভাইজার ব্যাংক কর্মকর্তার স্বাক্ষর ও সীল
অঞ্চল-১ (নগর ভবন), ১২ তলা
ঢাকা দক্ষিণ সিটি কর্পোরেশন

পৃষ্ঠা-৪

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ট্রেড লাইসেন্স (TRADE LICENCE)

No : 0119038

নবায়ন কার্যকারিতার মেয়াদ ২০১৫-২০১৬ খ্রিঃ

১। জন্ম তারিখ : ২৭/০৮/৮৫
২। লাইসেন্স বই নম্বর : ০১১৯০০৮ চালান বই নম্বর ০০
৩। টাকার পরিমাণ : লাইসেন্স/ নবায়ন ফি = ২০০০/-
সাইনবোর্ড কর = ১০০/-
সারচার্জ = ১০০/-
মোট টাকা (অংকে) = ২২০০/-
মোট টাকা (কথায়) = দুই হাজার দুইশত টাকা মাত্র
জন্ম নম্বর : তারিখ :
ব্যাংক ক্যাশিয়ারের স্বাক্ষর ও সীল (ব্যাংকের সীল) ব্যাংক কর্মকর্তার স্বাক্ষর ও সীল

সোনালী ব্যাংক লিমিটেড
নগর ভবন শাখা, ঢাকা।
২৭ OCT 2015
নগদ গ্রহণ

নবায়ন কার্যকারিতার মেয়াদ ২০১৬-২০১৭ খ্রিঃ

১। জন্ম তারিখ : ২৬/০৮/৮৫
২। লাইসেন্স বই নম্বর : ০১১৯০০৮ চালান বই নম্বর ০১
৩। টাকার পরিমাণ : লাইসেন্স/ নবায়ন ফি = ৩০০০/-
সাইনবোর্ড কর = ৪৮০/-
সারচার্জ = ১০০/-
মোট টাকা (অংকে) = ৩৪৮০/-
মোট টাকা (কথায়) = তিন হাজার চারশত টাকা মাত্র
জন্ম নম্বর : তারিখ :
ব্যাংক ক্যাশিয়ারের স্বাক্ষর ও সীল (ব্যাংকের সীল) ব্যাংক কর্মকর্তার স্বাক্ষর ও সীল

সোনালী ব্যাংক লিমিটেড
নগর ভবন শাখা, ঢাকা।
২৬ SEP 2016
নগদ গ্রহণ

নবায়ন কার্যকারিতার মেয়াদ ২০১৭-২০১৮ খ্রিঃ

১। জন্ম তারিখ : ০৪/০২/৮৬
২। লাইসেন্স বই নম্বর : ০১১৯০০৮ চালান বই নম্বর ০২
৩। টাকার পরিমাণ : লাইসেন্স/ নবায়ন ফি = ৩০০০/-
সাইনবোর্ড কর = ৪৮০/-
সারচার্জ = ১০০/-
মোট টাকা (অংকে) = ৩৪৮০/-
মোট টাকা (কথায়) = তিন হাজার চারশত টাকা মাত্র
জন্ম নম্বর : তারিখ :
ব্যাংক ক্যাশিয়ারের স্বাক্ষর ও সীল (ব্যাংকের সীল) ব্যাংক কর্মকর্তার স্বাক্ষর ও সীল

সোনালী ব্যাংক লিমিটেড
নগর ভবন শাখা, ঢাকা।
০৪ FEB 2018
নগদ গ্রহণ

পৃষ্ঠা-৫

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#13 LANDS FOR POWER PLANTS

Fatikchhari, Chattogram



Land Size
150 Acres



Yearly Power Size
45 MW On Grid

Bhaluka, Mymensingh



Land Size
150 Acres



Yearly Power Size
45 MW On Grid

Muktagacha, Mymensingh



Land Size
150 Acres



Yearly Power Size
50 MW On Grid

Cox's Bazar North



Land Size
150 Acres



Yearly Power Size
50 MW On Grid

Panchagarh



Land Size
150 Acres



Yearly Power Size
50 MW On Grid

Cox's Bazar



Land Size
150 Acres



Yearly Power Size
50 MW On Grid

Kurigram, Rangpur



Land Size
150 Acres



Yearly Power Size
45 MW On Grid

#14

ExpoTech's Contribution to International Tender for Solar Power Plants



Bangladesh Power Development Board

Central Secretariat

WAPDA Building (1st Floor), Motijheel C/A, Dhaka-1000
www.bpdb.gov.bd

Memo No.: 27.11.0000.101.14.013.25-418

Date: 11 Feb 2025

Minutes of Pre-Tender Meeting

Subject: Minutes of the Pre-Tender meeting as per the provision of the Tender Invitation No: 27.11.0000.101.14.013.25-62, Dated: 08 Jan 2025 for Installation of Solar Power Plant & Supply of Electrical Energy.

Chairperson: Chairman, Bangladesh Power Development Board

Date: 29 Jan 2025

Time: 10:00 AM

Venue: Bijoy Hall, Bidyut Bhaban, Dhaka

- The Bangladesh Power Development Board (BPDB) published 10 tender packages in a single notice vide Tender Invitation No: 27.11.0000.101.14.013.25-62, Dated 08 Jan 2025. Those tenders are processed under the Public Procurement Act, 2006 & Public Procurement Rules, 2008. The Pre-Tender meeting was arranged as per the instruction of the Tender Notice & Clause of Tender Documents. In that meeting, the Chairman of the Bangladesh Power Development Board was present along with relevant officials from BPDB. Also, Mr. Abdul Halim, Public Policy Expert; Mr. Md. Faruque Hossain, Procurement Expert; Mr. Toaha Mohammad, Financial Modeling Expert; Mr. S M Formanul Islam, Legal Expert; were present in the Pre-Tender Meeting. With the consent of the Chairperson, the Pre-Tender meeting was started on time.
- Representatives from relevant Tenderers were also present at the Pre-Tender meeting. The officials from the BPDB & Experts panel clarify or acknowledge the statement of representatives from relevant Tenderers as stated below:

Sl. No.	Representative from	Statement for Clarification or Amendment Proposal	Response from BPDB officials or/and Experts
1.	Expotech (UK) Ltd	a) He claim that Bangladesh is the only country who is dividing the benefits from Carbon Credit/ REC into 50:50 ratio. As the value of Carbon Credit is very much high, it has significant impact on the tariff. Also, BPDB & GoB is not investing in the project. To lower the tariff he suggested to give 75% benefits of Carbon Credit to the Contractor & rest amount to the BPDB.	a) The Tenderer requested to quote the tariff as per Appendix 2.4 (a) of the Tender Document where it is mentioned that "the amounts to be realized from the sale of Carbon Credits/ REC have not been included in the Tariff Rate". So it is considered that the Contractor will get return of its investment without considering carbon benefits. However, BPDB is investing significantly in this sector. Generally, the Renewable Energy tariff is relatively higher than other conventional sources. Also, BPDB comes forward to develop the renewable energy project with a

পরিচালক, অফিসি সিস্টেম এন্ড প্রজেক্ট

উপ-পরিচালক-১ উপ-পরিচালক-২

উপ-পরিচালক-৩ উপ-পরিচালক-৪

চাইল্ড নং: তারিখ: স্বাক্ষর

16.02.25

Certificate of Incorporation
ExpoTech Renewable Energy Ltd.



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Sl. No.	Representative from	Statement for Clarification or Amendment Proposal	Response from BPDB officials or/and Experts
		b) If the same tariff is offered by two different Tenderer for single package, what action will be taken?	collaborative approach with the private entities. So, benefits from Carbon Credit/ REC should be shared between BPDB & Contractor. Also, the 50:50 sharing will be done after the deduction of all associated expenditures. The tenderer should secure the total investment in the quoted tariff. He was also requested to submit the proposal in writing. b) In that case, the past performance of the Tenderer (for JV, the performance of all partners) will be evaluated and the better performer will be awarded as per the rules of the PPR.
2.	Super Star Electronics Ltd.	a) In the Tender documents due date of the invoice payment is 60 (sixty) Business Days. He requested to amend the "Appendix: 12.2 Billing and Payments" by replace the due date of the invoice by 45 (forty five) Days. b) He claimed that the bank is not issuing Tender Security on behalf of JV. Instead of that he suggested keeping the provision of submitting Tender Security by individual Partner of JV in proportionate amounts. In that case, the foreign Partner of the JV could submit a Tender Security from the foreign bank which will be endorsed by any local scheduled bank. c) Do the JV partners have to form SPV after getting NOA? d) Separate Commitment Letter of "Commitment for Bank's undertaking for Line of Credit" issued in favor of individual JV partners will be allowed or not? Also, he requested to accept Commitment letters from Foreign Banks also. e) He requested to consider Price Indexation on the Local Part of the tariff. He explains that, throughout the term, overhead costs will increase significantly because of inflation.	a) BPDB expresses interest in considering the revision of the due date for payment of invoices to 60 (sixty) Days instead of 60 (sixty) Business Days (Day means calendar days). Necessary Addendum will be published after getting approval from the competent authority. b) Multiple partner could participate in the Tender by forming JV (institutional/ non-institutional) or with a intention to form JV. As per the law, the Tenderer must have to submit Tender Security (In case of JV, JV is the Tenderer). BPDB will also analyze the requirements again. Necessary Addendum will be published if this provision is allowed. c) Creating SPV is completely the choice of JV partners. BPDB will sign contract with the JV only. After the signing of the contract there is a requirement of submit legal registration of JV from the Office of the Registrar of Joint Stock Companies and Firms (RJSC). Also, the other partner of JV could be replaced/ removed under certain terms & conditions during implementation period. But there is no scope to change Lead Partner. d) BPDB will analyze the said Form "Form PG5A-6a" of Tender Documents. Necessary amendments will be made if "Form PG5A-6a" needs to be changed or modified. e) For the solar power project the O&M cost is not significant compared to the other conventional power plant. Therefore, the risk of Inflation in the Local Part of the tariff is very low.

Page 2

Joint Stock Companies & Farms Certificate ExpoTech Renewable Energy Ltd.



Bangladesh Power Development Board

Central Secretariat

WAPDA Building (1st Floor), Motijheel C/A, Dhaka-1000
www.bpdb.gov.bd

Memo No.: 27.11.0000.101.14.013.25-732

Date: 20 Mar 2025

Minutes of Pre-Tender Meeting

Subject: Minutes of the Pre-Tender meeting as per the provision of the Tender Invitation No: 27.11.0000.101.14.013.25-234, Dated: 27 Jan 2025 for Installation of Solar Power Plant & Supply of Electrical Energy.

Chairperson: Chairman, Bangladesh Power Development Board

Date: 19 Feb 2025

Time: 10:00 AM

Venue: Bijoy Hall, Bidyut Bhaban, Dhaka

1. The Bangladesh Power Development Board (BPDB) published 19 tender packages in a single notice vide Tender Invitation No: 27.11.0000.101.14.013.25-234, Dated 27 Jan 2025. Those tenders are processed under the Public Procurement Act, 2006 & Public Procurement Rules, 2008. The Pre-Tender meeting was arranged as per the instruction of the Tender Notice & Clause of Tender Documents. In that meeting, the Chairman of the Bangladesh Power Development Board was present along with relevant officials from BPDB and representative from Power Grid Bangladesh Plc. Also, Mr. Abdul Halim, Public Policy Expert; Mr. Md. Faruque Hossain, Procurement Expert; Mr. Toaha Mohammad, Financial Modeling Expert; Mr. S M Formanul Islam, Legal Expert; were present in the Pre-Tender Meeting. With the consent of the Chairperson, the Pre-Tender meeting was started on time.
2. Representatives from relevant Tenderers were also present at the Pre-Tender meeting. The officials from the BPDB & Experts panel clarify or acknowledge the statement of representatives from relevant Tenderers as stated below:

Sl. No.	Representative from	Statement for Clarification or Amendment Proposal	Response from BPDB officials or/and Experts
1.	Expotech (UK) Ltd	a) He requested to delete the provision of GCC Clause No 67.3 Termination for Convenience. b) Requested to extend the deadline for submission.	a) BPDB will analyze the request. Necessary Addendum will be published if considered. b) BPDB will analyze the situation and necessary time extension will be given if required.
2.	Infraco Asia	a) There is no provision for a Notice to Lender in the Event of Default by the Company. b) Requested to consider Price Escalation for the BDT portion of the Tariff.	a) In Public Procurement Act, 2006, and Public Procurement Rules, 2008 there is no scope to deal with the Lender. It is completely the responsibility of the Contractor/ Supplier to arrange their own financing to implement the Contract. b) He was requested to submit a written proposal on that. BPDB will analyze the request.

স্বাক্ষরিত আইপিপি সেল-১ এর দ্বারা
 উপ-পরিচালক-১ উপ-পরিচালক-২
 উপ-পরিচালক-৩ উপ-পরিচালক-৪

TIN Certificate of ExpoTech Renewable Energy Ltd.



EXPOTECH RENEWABLE ENERGY LTD.
Tomorrow's Energy, Today



EXPOTECH INNOVATION LTD.
LET SOLAR BE THE POWER



ExpoTech UK Limited
Let Solar Be In Every Vehicle

ExpoTech Tea Garden

Drinking a cup of tea every day can help you stay healthy and happy. Tea is a complex beverage with different flavours and varieties due to varied cultivation regions and production methods. There are thousands of different types of teas ranging from the classic true tea varieties to endless herbal tisanes and spiced teas.

Tea or Chai or Cha or Ca (चा) is the first thing in most South Asian countries people start their day with.

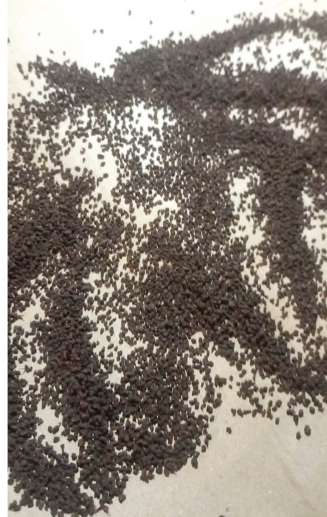
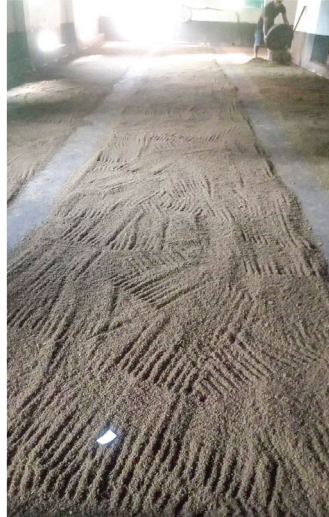




Black Tea

ExpoTech Beverage Limited mostly produces Black Tea. Black Tea is known in the Western world as 'Black Tea' and in China as 'Red Tea'. This true tea is the most processed of the tea varieties. It undergoes a process of withering, rolling, oxidation and drying that result in a dark brown or reddish amber hue when in liquid form.

The leaves of this plant contain naturally occurring caffeine that is actually higher in concentration than in coffee beans. Coffee is only stronger than tea because it is more concentrated when brewed. The actual caffeine content in a cup of true tea varies largely depending on the production method. White tea tends to have the lowest caffeine content of the true teas while black tea and matcha green tea have the highest concentrations of caffeine. The different levels of caffeine make tea a great choice for both energy and relaxation. It can help you reduce your caffeine intake or replace your morning cup of ExpoTech Tea with an alternative that won't make you feel jittery or affect your sleep cycle.



Benefits of Grazing in Tea Gardens

01

Weed Control: Cattle naturally eat weeds, reducing manual labour for tea garden upkeep.

02

Natural Fertilization: Manure from cattle fertilizes the soil, improving nutrients for tea plants.

03

Management: We will have two individuals looking an eye to all cattle and their well being and milking.

04

Dairy Products: There will be ExpoTech milk and meat in all over Bangladesh for sale.





Solar Power Plant on ExpoTech's Tea Estate

We have received a 245 MW (AC) Solar Power NOC (No Objection Certificate) from both the AC Lands and Agriculture Departments of Fatikcharri, Chittagong. Both NOC (s) are enclosed here.

Carbon Emission

Huge carbon emission has emerged as one of the major problems of modern human civilization. Even though tea has become a major part of human culture, processing of trees is not a carbon-free process.

To process and finally produce 1kg of tea approximately 2.24 kg of CO₂ is emitted. A large tea processing plant with a production capacity around 500 – 1500 MT emits around 33,33,288.36 kg of coal every year.



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How it Works (Agrivoltaics)



Dual-Use Land: Solar panels are installed above tea plants, utilizing fallow or hilly areas that are less ideal for cultivation.

Optimized Shading: Panels are strategically tilted and spaced (e.g., 3m pole height, 2.37-2.75m spacing) to provide the necessary 60-70% shade for tea, enhancing quality and yield, as tea is a shade-loving plant.



Energy & Income: Generates electricity for factory operations, reducing reliance on diesel/coal, and provides extra income from land rental.

Table 2. Solar Radiation in Some Tea-Producing Countries (GSA, 2024)

Serial No.	Country (Tea-Producing Region)	kWh/m ² /day	kWh/m ² /year	Rank
01	China (Zhejiang)	3.73	1360	9th
02	India (Assam)	4.69	1712	6th
03	Kenya (Nakuru)	6.04	2204	1st
04	Sri Lanka (Kandy)	5.12	1870	3rd
05	Turkey (Rize)	3.55	1294	10th
06	Indonesia (West Java)	4.80	1753	5th
07	Vietnam (Yen Bai)	3.47	1265	11th
08	Japan (Shizuoka)	4.43	1617	8th
09	Iran (Mazandaran)	4.60	1678	7th
10	Argentina (Misiones)	5.26	1922	2nd
11	Bangladesh (Moulvibazar)	4.93	1798	4th

Additionally, different tea-growing regions in Bangladesh also receive substantial solar radiation, with Chittagong and Bandarban being the most favorable regions for solar power generation (Table 3).

Table 3. Solar Radiation in Tea-Producing Regions of Bangladesh (GSA, 2024)

Serial No.	Region	kWh/m ² /day	kWh/m ² /year	Rank
01	Sylhet	4.91	1792	5th
02	Moulvibazar	4.93	1798	4th
03	Habiganj	4.89	1784	7th
04	Chittagong	5.25	1917	2nd
05	Bandarban	5.26	1920	1st
06	Panchagarh	4.93	1801	3rd
07	Thakurgaon	4.90	1790	6th
08	Nilphamari	4.84	1765	8th
09	Lalmonirhat	4.81	1757	9th





Effects on Tea Quality and Growth

01

Optimal Shading: Tea plants (*Camellia sinensis*) are naturally weak light-tolerant plants and thrive with specific levels of shade. Solar panels can be designed to provide the necessary 60-70% shading, which is crucial for optimal growth and productivity.

02

Enhanced Amino Acid Synthesis: The shade helps regulate temperature and humidity in the tea garden, which fosters a better environment and enhances the synthesis of amino acids, contributing to better tea quality.

03

Protection from Abiotic Stress: The panels can shield the plants from direct, intense sunlight and other environmental stressors, leading to more resilient crops.

04

Increased Yield: In addition to improved quality, the favourable conditions created by the panels can also lead to a better overall tea yield.





ExpoTech Spring Water

In today's fast-paced world, staying hydrated is more than just a health recommendation; it's a cornerstone for maintaining optimum well-being. Amidst the myriad options available, spring water emerges as a natural choice for many, heralded for its purity and mineral content. Spring water originates from underground sources, making its way to the surface naturally. This journey endows spring water with a unique mineral profile, which is not only beneficial for health but also contributes to its refreshing taste. Unlike other forms of water that may undergo extensive treatment processes, ExpoTech spring water maintains its natural purity and mineral content.

Making spring water a part of your daily hydration routine is a simple yet impactful change. Whether it's starting your day with a glass of spring water, keeping a reusable bottle filled for on-the-go hydration, or using spring water in your cooking, the benefits are multifaceted. From improved hydration to enhanced culinary experiences, the natural qualities of spring water can elevate your daily water intake.



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ExpoTech Fisheries

Aquatic foods are central to the diet of the Bangladeshi people, with fish being the most consumed animal-source protein. Bangladesh's aquatic food production system plays a critical role in achieving food and nutrition security, improving economic, social, and environmental sustainability, and enhancing climate resilience. The country boasts rich aquatic resources, including 0.84 million ha of inland closed waters like ponds, seasonal water bodies, and shrimp and prawn ghers (a modified rice field used for prawn farming, carp, and rice, that fill with rainwater during the monsoon, creating a pond-like environment), and 3.86 million ha of inland open waters. Bangladesh also has a 710 km coastal belt and a 70,000 km² Exclusive Economic Zone for sea fishing. In 2022–2023, total fish production was 4.9 million metric tons. Bangladesh aims to increase productivity to 8.5 million metric tons to transform from a lower- to an upper-middle-income country by 2031 and to a high-income country by 2041.

ExpoTech tea estate has 21 lakes and among them 3 are very large and deep lakes. We will have fish ponas in these lakes and nurture them to sell in the market under the banner of ExpoTech fisheries.



ExpoTech Ducks & Duck-Eggs

ExpoTech management will buy 5,000 ducklings and put them on these 21 lakes. The duck droppings will be food for the fishes under the water. From these 5,000 + ducklings ExpoTech will have more ducks and duck-eggs to sell in the market under ExpoTech brand.



ExpoTech Cattle & Diary Products

We will have 500 cows grazing all over the tea estate.



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TRIPHALA



Triphala has been used in traditional Ayurvedic practice since ancient times as a multi-purpose treatment for symptoms ranging from stomach ailments to dental cavities. It is also believed to promote longevity and overall health. It's considered a polyherbal practice, meaning it consists of several different medicinal herbs.

Triphala is a mixture of the dried fruits of the following three plants native to India.



Amla (*Emblica Officinalis*)

This is commonly known as Indian gooseberry. The berries have a sour, sharp taste and a fibrous texture. They also contain powerful plant compounds like phenols, tannins, phyllembelic acid, rutin, curcuminoids, and emblicol. Indian gooseberries are also very nutritious and high in vitamin C, amino acids, and minerals.

Bibhitaki (*Terminalia Bellirica*)

This is a large tree that commonly grows in Southeast Asia. In one study^{Trusted Source}, 500 mg of *Terminalia bellirica* substantially reduced uric acid levels in patients with gout, an inflammatory condition characterized by the build-up of uric acid in the body. Bibhitaki is high in gallic acid and ellagic acid, two phytochemicals that have beneficial effects^{Trusted Source} on blood sugar levels, insulin sensitivity, and body weight.





Haritaki *(Terminalia Chebula)*

This is a medicinal tree that grows throughout the Middle East, India, China, and Thailand. Haritaki contains phytochemicals such as terpenes, polyphenols, anthocyanins, and flavonoids.

This Tea garden has 50 triphala trees and ExpoTech plans to grow 150 more to bring an ExpoTech Triphala brand in Bangladeshi and foreign markets.

Digestive Health & Detox

- **Regulates Bowels** : Helps with occasional constipation and promotes regular bowel movements.
- **Gut Health** : Balances gut microbiome, reduces bloating, and aids nutrient absorption.
- **Detoxifies** : Supports liver and kidney function, cleansing the body of toxins.
- **Antioxidant & Anti-inflammatory**
- **Rich in Antioxidants** : Contains polyphenols that fight free radicals and cellular damage.
- **Reduces Inflammation** : May help lower inflammation in the body and gut.

Immune & Metabolic Support

- **Boosts Immunity** : Strengthens the body's defences.
- **Metabolic Balance** : May help regulate blood sugar and cholesterol levels.
- **Weight Management** : Can support weight loss by improving metabolism and curbing cravings.

Other Potential Benefits

- **Oral Health** : May reduce plaque and prevent gingivitis.
- **Skin & Hair** : Cleanses blood, fights acne, and strengthens hair roots.
- **Eye Health** : Used to soothe and refresh eyes, rich in Vitamin A.



MANGO GROVE

This is a large tree that commonly grows in Southeast Asia. In one study^{Trusted Source}, 500 mg of *Terminalia bellirica* substantially reduced uric acid levels in patients with gout, an inflammatory condition characterized by the build-up of uric acid in the body. Bibhitaki is high in gallic acid and ellagic acid, two phytochemicals that have beneficial effects^{Trusted Source} on blood sugar levels, insulin sensitivity, and body weight.

What are the Major Takeaways of Frozen Mango Market?

- With busy lifestyles and growing urbanization, there is a rising demand for convenient food options. Frozen mango offers a convenient solution for consumers looking to incorporate fruits into their diet without the hassle of peeling, cutting, and preparing fresh mangoes
- Frozen mangoes have a longer shelf life compared to fresh mangoes, allowing consumers to enjoy mangoes even during off-seasons or in regions where fresh mangoes are not readily available. This extended shelf life contributes to the market growth, especially in regions with seasonal fluctuations in mango supply
- North America dominated the frozen mango market with the largest revenue share of 41.85% in 2024, driven by rising demand for convenient, ready-to-eat fruits and increasing consumer preference for healthy snacking options
- Asia-Pacific frozen mango market is poised to grow at the fastest CAGR of 4.36% during 2025–2032, driven by rapid urbanization, increasing disposable incomes, and rising adoption of convenient food products
- The Diced Frozen Mango segment dominated the market with a revenue share of 38.6% in 2024, primarily due to its extensive use in smoothies, desserts, yogurts, and bakery products

SEGMENTS COVERED

By Product Type

Whole Frozen Mango, Mango Slices, Diced Frozen Mango, Puree or Pulp, and Others

By End Use

Food Processing, Beverages, Foodservice, and Others

By Distribution Channel

Whole Frozen Mango, Mango Slices, Diced Frozen Mango, Puree or Pulp, and Others

What is the Key Trend in the Frozen Mango Market?

Rising Demand for Convenience and Ready-to-Eat Product

➤ A significant and accelerating trend in the global frozen mango market is the increasing preference for convenience-oriented, ready-to-eat fruit solutions. This shift is driven by busy lifestyles, urbanization, and rising health awareness, with frozen mangoes offering year-round availability and longer shelf life compared to fresh produce.

For instance, companies are launching pre-cut, diced, and smoothie-ready frozen mango packs to meet consumer demand for quick meal preparation. Major brands are also focusing on resealable packaging and portion-controlled packs for enhanced convenience.

➤ Innovation in cold chain logistics and advanced freezing technologies helps retain mango's natural taste, texture, and nutrients, making frozen variants more appealing. Retailers and e-commerce platforms are expanding their frozen fruit assortments, including organic and premium mango options, to attract health-conscious consumers.

➤ The trend is also supported by the rising popularity of smoothies, desserts, and functional beverages, where frozen mango serves as a key ingredient.

➤ This growing demand for convenience and year-round supply is reshaping the frozen fruit industry, prompting companies such as Dole, Ardo, and SunOpta to expand their frozen mango product portfolios.

➤ The integration of frozen mangoes into global foodservice menus and home cooking underscores their evolving role as a staple in the frozen fruit category.

➤ Mango yield is less.

Fresh Mango market is even much better and bigger but Bangladesh is nowhere near the world players. ExpoTech Beverage Limited will export plenty of fresh mangoes all over the world to earn foreign currency.

Overview of Global Fresh Mango Market

Browse trends of top exporting countries of Fresh Mango with a summary of price and seasonality data for each market.

Rank	Country	Share in Export Value 2023	Export Value 2023, USD	1-Year Growth in Export Value 2022-2023	3-Year Growth in Export Value 2020-2023	Weekly Price Index Change	Monthly Price Index Change 2025-12	Harvesting Seasonality
1	Thailand	17.77%	\$642.13M	+20.77%	+12.56%	-1.24%	+0.95%	Off Season
2	Mexico	15.92%	\$575.36M	+5.09%	+28.02%	-4.34%	+62.45%	Off Season
3	Netherlands	10.56%	\$381.72M	+15.53%	-7.16%			-
4	Brazil	8.73%	\$315.69M	+52.62%	+27.32%	+91.84%	+91.84%	Low Season
5	Peru	7.05%	\$254.73M	-12.52%	-9.20%	+108.01%	+116.04%	Low Season
6	India	4.27%	\$154.23M	-29.96%	+12.20%	-15.23%	-9.11%	Off Season
7	Egypt	3.70%	\$133.57M	+27.40%	+196.41%			Off Season
8	Cambodia	3.52%	\$127.10M	+506.26%	+3419.52%			Off Season
9	Indonesia	3.14%	\$113.36M	+48.66%	+37.62%			Low Season
10	Pakistan	3.00%	\$108.57M	-2.30%	+7.01%			Off Season

Top exporting country list is based on HS code 080450 which is the representative HS code for Fresh Mango.



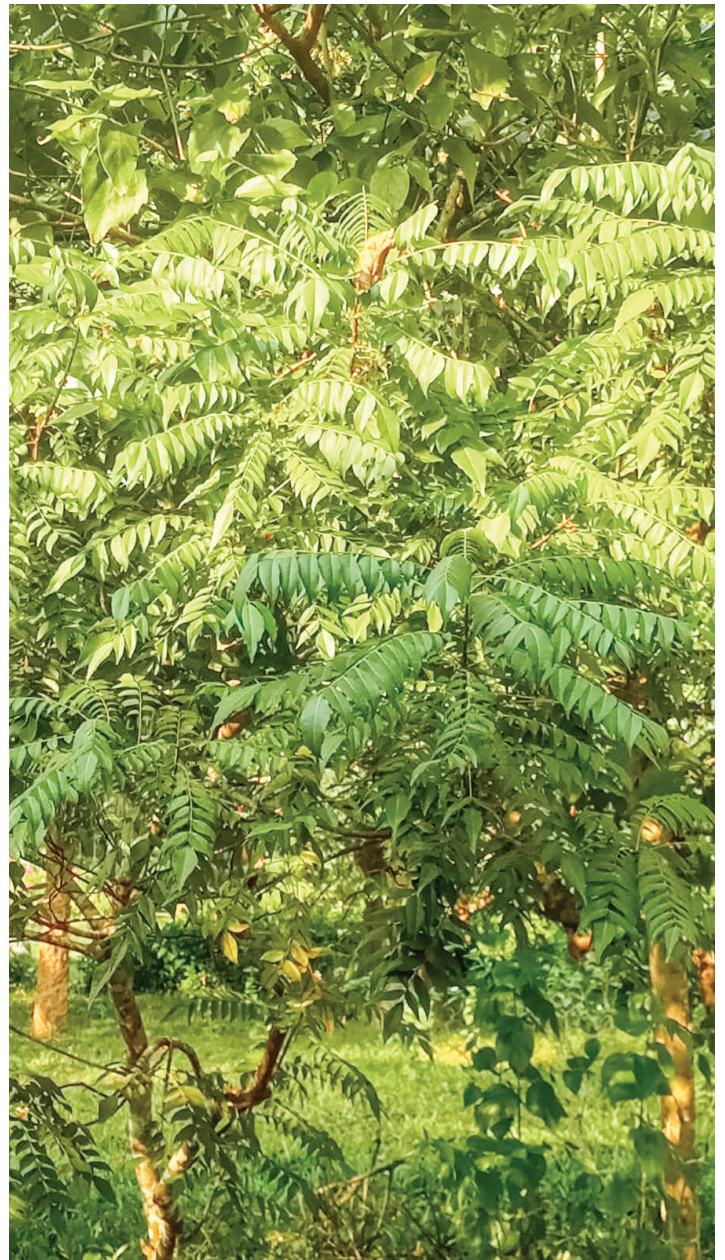
Agarbati

Agar trees (Aquilaria spp.) in Bangladesh offer significant economic benefits through high-value agarwood (oud) for perfumes and traditional medicine, improving rural livelihoods, and creating employment in processing industries, while the wood itself has medicinal uses for pain, inflammation, asthma, and skin issues, alongside spiritual uses as incense.



ExpoTech's Tea Estate

Agar Trees



ExpoTech's Tea Estate

Agar Trees



East Asian Medicine

Agarwood is prescribed in traditional East Asian medicine to promote the flow of qi, relieve pain, arrest vomiting by warming the stomach, and to relieve asthma (Anon., 1995a).



Use as Liniment

Malaysians use agarwood mixed with coconut oil as a liniment. Likewise Indians and Chinese also use agarwood oil in their traditional medicine as a liniment for the treatment of various skin diseases. (Burkill (1966))

Rheumatism

Agarwood oil is used in a boiled concoction to treat rheumatism and other body pain. (Burkill)



Chinese Medicine

- High-grade agarwood powder is prescribed in Chinese medicine (Yaacob, 1999).
- High grade agarwood powder is also used in the production of pharmaceutical tinctures (Heuveling van Beek and Phillips, 1999).

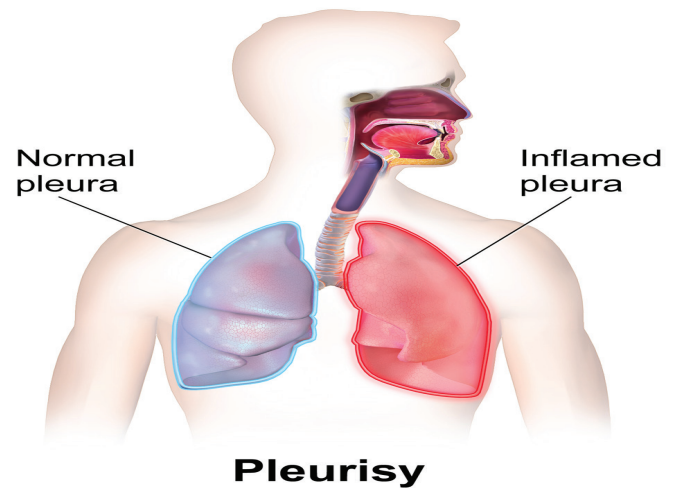


Jaundice

Often-discarded uninfected wood is used as Kayu gaharu lemppong by Malaysians to treat jaundice and body pains. (Chakrabarty et al. (1994))

Smallpox and Abdominal Pain

Agarwood has been noted for its use as a complex ointment for smallpox and for various abdominal complaints. (1930, cited in Chakrabarty et al., 1994)



Pleurisy

Pleurisy

Its use for the treatment of pleurisy is referenced in the Ayurvedic medicinal text the Susruta Samhita

Nervous System Disorders

When used in aromatherapy, agarwood oil may help to treat anxiety, stress, depression and other nervous system disorders

Liver and Kidney

Agarwood oil is used to treat cirrhosis of the liver and kidney problems



Lung and Stomach Tumours

Agarwood oil is used in the treatment of lung and stomach tumours

Carminative Diuretic

Agarwood oil is also used a carminative diuretic



The Indian Council

The Indian Council summarizes the properties of agarwood as follows: "Agarwood is considered stimulant, antiasthmatic, carminative, tonic, aphrodisiac and astringent. It is used in diarrhoea, dysentery, gout, rheumatism and paralysis.

The Cropwatch Organisation

The Cropwatch Organisation similarly lists acknowledged merits of agarwood in Asian medical praxis as "warming," "to relieve stuck energy particularly in the digestive and respiratory systems," "to alleviate pain," and "balancing effects" on "nervous and emotional disorders."

Middle East and Bangladesh

In Egypt, Arabia and throughout the northeast part of Bangladesh, agarwood is described as a stimulant, cardiac tonic and carminative (Bhuiyan et al., 2009)

China and Japan

It is used as a traditional sedative, analgesic and digestive medicine in traditional Chinese and Japanese medicine (Abdullah et al., 2007; Liu et al., 2008)

Assam

The water portion obtained as distillate after separating the oud oil during distillation process is used at present in Assam as an efficient stimulant and tonic for the treatment of mental disorder and malnutrition

Miscellaneous

- The oud oil is used to treat illness during and after childbirth; to relieve spasms especially in the digestive and respiratory systems, abdominal pain, asthma, cancer (used as a general tonic), colic, chest congestion, diarrhea, hiccups, nausea, nerves and treatment of regurgitation (Burkill, 1966; Chakrabarty et al., 1994; Kim et al., 1997; Barden et al., 2000; Bhuiyan et al., 2009).
- Agarwood is also prescribed for dropsy, as a carminative, a stimulant, for heart palpitations, and as a tonic taken particularly during pregnancy, after childbirth and for diseases of female genital organs (Chakrabarty et al., 1994)



- When it comes to Bangladesh, industry insiders believe that the fragrance market in the country is now worth over BDT 100 crore where people from middle-income households and students are also opting for expensive perfumes along with rich people. Although we don't have any well-defined industry or any perfume house hailing from our country, there's a considerable number of active and potential customers who're either ready or willing to purchase a fragrance originating in Bangladesh. The only franchise perfume shop in the country is **Al Haramain Perfumes Pvt Ltd**, the brainchild of **Md Mahtabur Rahman**, a Bangladeshi expat from Sylhet.
- But here exists a tremendous opportunity to create a highly profitable fragrance raw material industry in Bangladesh centring on the cultivation of-"agarwood". Currently, nearly 300 agar-based enterprises involving 25,000-30,000 workers, are producing agar chips, oil and related products in the country. The net return in these enterprises is BDT 0.8 million and per year they're exporting BDT 5.0-100 million.

- International agarwood market has a terrible experience of price fluctuation. By 1970s, it was sold up to \$42.5 and then raised straightly \$1250 and \$2500 per kg in 2000 and 2005, respectively.
- First-grade agarwood is one of the most expensive natural raw materials in the world. Singapore trades agarwood \$1.2 billion alone each year. The trading value of pure agar oil is \$30,000 to 40,000 per kilogram.
- Based on resin presence, agarwood chips sell from \$30 to \$10,000 per kilogram.



In the context of Bangladesh, agar trees are being cultivated in many places on a large scale but the agarwood farmers are failed to get the proper profit because of their unfamiliarity with the proper and scientific inoculation methods. They are used to practice the nailing method which is time-consuming and yield is very poor. Aeration method might be a suitable solution for this problem as it is easy to inoculate, inoculation materials are locally available, comparatively low cost and as long as the wound remains open to the air, agarwood will increasingly accumulate.

Keeping the above facts in view, the objective is to evaluate the economic benefit of agarwood cultivation through aeration technique into agar trees.



EXPOTECH RENEWABLE ENERGY LTD.
Tomorrow's Energy, Today



EXPOTECH INNOVATION LTD.
LET SOLAR BE THE POWER

EXPOTECH RENEWABLE ENERGY LTD. & EXPOTECH INNOVATION LTD.

We are Establishing

MERCHANT POWER PLANT

Renewable energy is our future
There is a kind of inevitability about it



ABOUT US

ExpoTech Renewable Energy Limited, a Bangladeshi company focused on developing large-scale solar power plants and promoting renewable energy solutions, offering services from solar panel installation/maintenance (commercial/residential) to substations, and even waste-to-energy projects, aiming to reduce fossil fuel reliance in Bangladesh through innovation and efficient implementation of PV & other sustainable technologies. They hold major No Objection Certificates (NOCs) for significant solar projects and provide a range of products like solar ACs, inverters, and pumps, emphasizing clean energy for a greener future in the country.

ExpoTech has received NOC(s) (No Objection Certificate) of 400 MW (AC) Solar Power Plant at Karerhat, Mirsarai, Chattogram and 245 MW (AC) for Solar Power Plants in Fatikcharri, Chattogram. No other companies in the "History of Bangladesh" has received and achieved such a large scale NOC (s) managing 1101.11 acres of land in Karerhat and 901.88 acres of land in Fatikcharri.

What is Merchant PPA?



The Merchant Plant model is similar to the PPA Single Owner model, except that power generated by the system is sold at market prices that can vary on an hourly (or sub-hourly), daily, or monthly basis over the project life or a fixed tariff for 20 to 25 years. Revenue can be from energy production, ancillary (wheeling charge) services and capacity payments, or a combination of the three. ExpoTech's PPA is one tariff for the whole 20 to 25 years with a review of electricity prices in every five year which will be agreed at the sign of PPA.

A Merchant Power Purchase Agreement (Merchant PPA) is a particular type of long-term power purchase contract. In this setup, the buyers are usually electricity traders or more specifically renewable energy traders who take the output from a specific generation facility and sell it on the open market at current market rates. Merchant PPAs are most often associated with renewable energy projects—especially wind and solar power—where the electricity is fed straight into the market. **Off-takers (i.e. Industries, Factories, Businesses) can benefit** from merchant power plants by gaining access to competitive pricing, direct negotiation options, and the ability to meet sustainability targets through Power Purchase Agreements (PPAs). This model offers an alternative to a government-dominated market with set tariffs.



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Key Benefits For Off-Takers Include

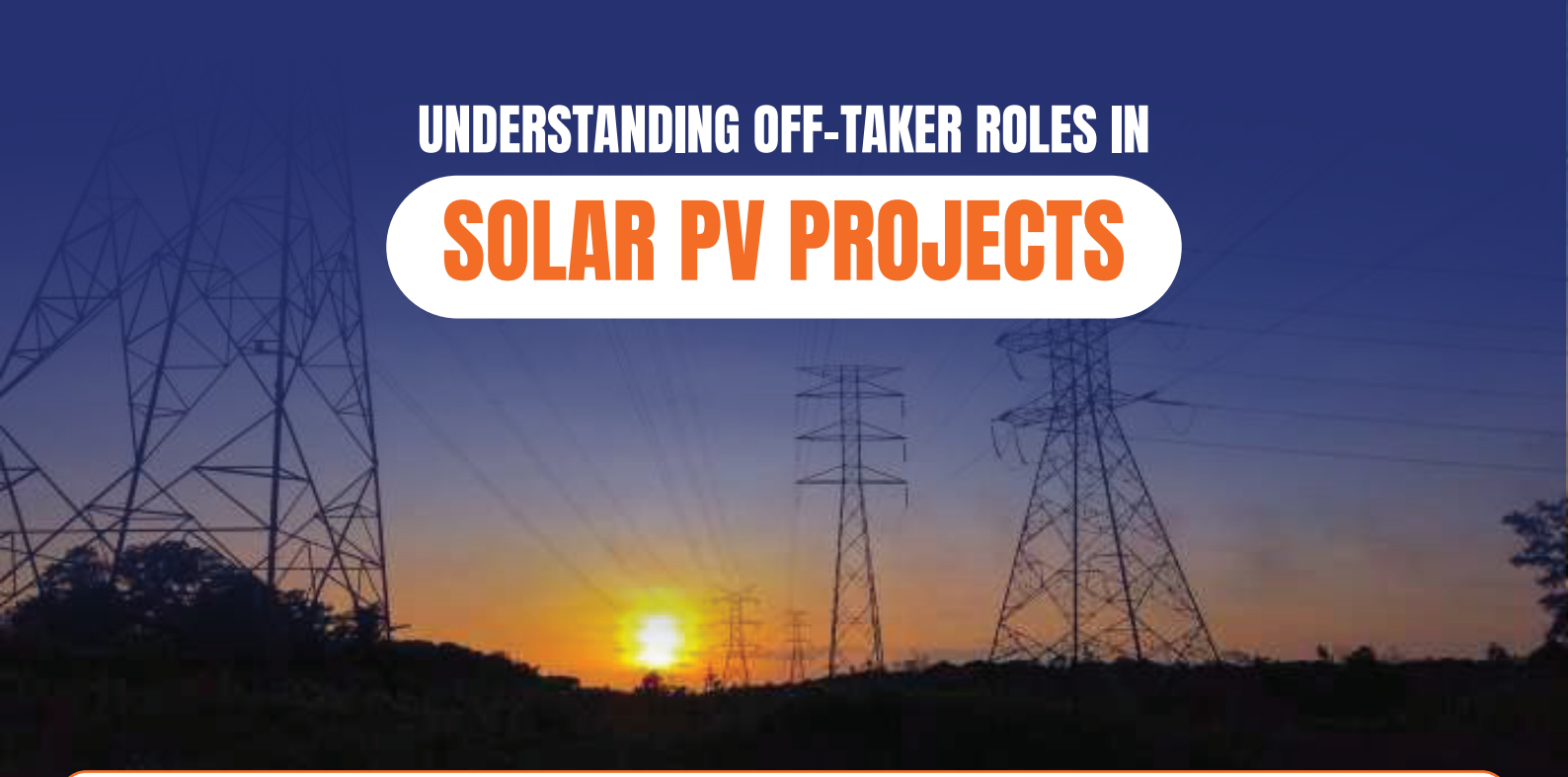
- **Competitive Pricing:** The ability to negotiate electricity prices directly with producers in a competitive market can lead to potentially lower tariffs compared to traditional regulated models by the Bangladesh Power Development Board (BPDB).
- **Price Stability and Risk Mitigation:** Off-takers can enter into long-term Power Purchase Agreements (PPAs) with merchant plants, which lock in a fixed price for electricity over an extended period (typically 20-25 years) and reviewed every 5 years. This provides predictable energy costs and protection from the volatility and fluctuations of the spot market.
- **Access to Renewable Energy and ESG Goals:** Merchant power plants, especially those focused on solar and wind energy, allow corporate off-takers to source clean energy directly. This helps companies meet their environmental, social, and governance (ESG) goals, reduce their carbon footprint, and enhance their brand image and social responsibility.
- **Flexibility and Customization:** The bilateral nature of PPAs allows for flexible and customized contract designs tailored to the specific needs and preferences of both the generator and the consumer, including pricing structures and volume requirements.
- **Enhanced Energy Security:** Sourcing power from diverse merchant plants, potentially through on-site or off-site PPAs, can reduce reliance on the main grid and enhance an off-taker's energy security and resilience against potential grid disruptions.
- **Operational Expenditure (OpEx) Advantage:** For on-site PPAs, the plant developer typically finances, installs, and maintains the facility. This means the off-taker avoids large upfront capital expenditures (CapEx), treating energy costs as operational expenses instead and preserving capital for other business investments.
- **Transparency:** A market-driven model involving direct transactions encourages transparency in the power sector, which can help in long-term financial planning and reduce uncertainties.



EXPOTECH RENEWABLE ENERGY LTD.



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UNDERSTANDING OFF-TAKER ROLES IN **SOLAR PV PROJECTS**

An off-taker in solar PV refers to the entity that purchases the electricity generated by a solar or wind or any renewable energy power plant. The off-taker can be a utility company, a government entity, a private company, a institution, a hospital or even an individual, depending on the nature of the agreement and the scale of the project. In the context of solar energy, the off-taker plays a crucial role in ensuring that the energy generated is bought and consumed, creating a stable revenue stream for the project developers and investors. ExpoTech Renewable Energy Limited welcomes those off-takers.

ExpoTech Renewable Energy Limited has received the 400 MW (AC) NOC (No Objection Certificate) for Karerhat, Mirsarai, Chattogram which made the History in Bangladesh. Our first Merchant Power Plant will be at Karerhat, Chattogram, Chattogram.

ExpoTech also received the 245 MW (AC) NOC for Fatikcharri, Chattogram which is another milestone for Bangladesh and in the History of Chattogram and Bangladesh there had never been issued a 245 MW (AC) Solar Power Plants' NOC for such a large area before. These are the locations we will install MERCHANT POWER PLANTS. There is 100 MW (AC) at Anwara and 100 MW (AC) at Baroiarhat, Mirsarai.

The main function of the off-taker is to enter into a contract with the solar power producer to buy the electricity generated over a specified period. This ensures that the developer can secure financing for the project since they know they will have a reliable buyer for the power produced. Off-takers often seek to secure long-term (20 to 25 years) contracts to guarantee the supply of renewable energy at predictable rates, which can be beneficial for both the off-taker and the developer.

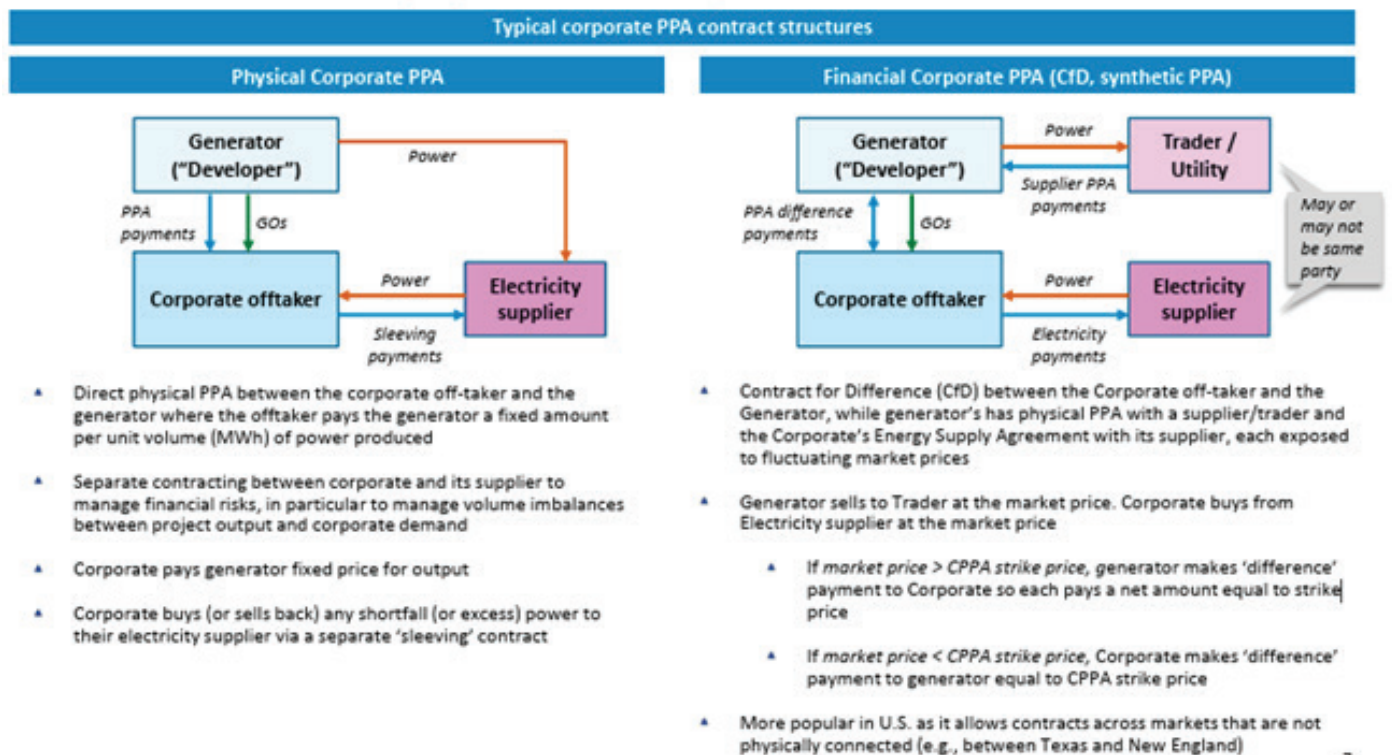


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Both structures have been deployed to date in Europe



There are several types of off-takers in the solar PV sector. The most common off-takers are utilities, which buy electricity from solar power plants to distribute to consumers. In this case, the agreement between the utility and the solar developer is usually based on a Power Purchase Agreement (PPA), which outlines the terms, price, and duration of the sale. Utilities are often interested in procuring renewable energy to meet regulatory requirements or sustainability goals.

Another kind of off-taker is a corporate buyer. Many large companies enter into PPAs to purchase solar energy for their operations, either as part of their sustainability initiatives or to lock in long-term, predictable energy prices. These corporate off-takers often have specific renewable energy targets or may seek to reduce their carbon footprint. For example, tech companies or manufacturers with large energy demands are significant buyers of solar energy.

Governments can also be off-takers in solar projects. They may enter into agreements to buy solar power as part of national or regional energy transition goals. Government off-takers typically enter into long-term contracts to ensure a steady supply of clean energy to meet renewable energy targets.

The type of contract between the off-taker and the solar power producer can vary. The most common contract is a Power Purchase Agreement (PPA), which is a legally binding contract that specifies the amount of electricity to be supplied, the price at which it will be sold, and the duration of the agreement. In some cases, the price may be fixed, while in other cases, it may be linked to market prices or inflation rates. PPAs are usually long-term, ranging from 20 to 25 years, ensuring long-term financial stability for both parties.



Other key terms often found in these agreements include delivery schedules, payment terms, force majeure clauses (which cover situations where performance is impossible due to unforeseen events), and penalties for non-performance. These terms ensure that both the off-taker and the solar developer are protected and that the project operates smoothly.

In summary,

the off-taker in solar PV is the buyer of the electricity generated by a solar power plant. The off-taker could be a utility, a corporate entity, or a government agency. The relationship between the off-taker and the solar developer is typically formalized through contracts like PPAs, which guarantee a stable market for solar energy and provide financial security for developers. These agreements help drive investment in solar projects and support the growth of renewable energy markets.

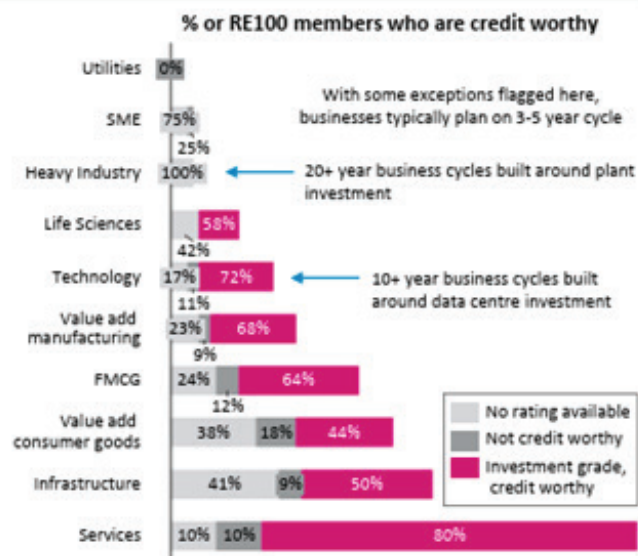
Lack of credit worthiness blocks a significant pool of otherwise credible demand; only a subset of counterparties with scale and green ambition will be credit worthy

3

Credit worthiness

Credit worthiness is a major barrier across most sectors, particularly in heavy industry and manufacturing, and in less developed European economies, where many organisations have appropriate energy footprint for PPAs but are not rated by any major credit rating agency. Debt providers to renewables projects continue to require strong credit rating in order to consider the PPA bankable

- ▲ Banks providing project debt require PPAs to be signed with investment-grade counterparties in order for the revenue stream associated with the PPA to be considered secure
"...Banks are not willing to accept the slightly less credit worthy counterparties..."
Developer
- ▲ Credit guarantees provided by financial institutions are possible but generally not affordable
- ▲ Outside of the EU, where the risk has been removed, it has been effective in unlocking PPAs
"...The Norway credit guarantee scheme was essential in being able to sign our PPA..."
Developer
- ▲ Removing this risk would not unlock all remaining power demand among large energy users
"...Aversion to price risk often goes hand in hand with credit risk. Removing credit risk doesn't suddenly open up all mid-tier users with suitable size demand..."
Utility
- ▲ There is also evidence of utilities taking on this credit risk on behalf of end users by taking on long-term PPAs without first securing demand among end users
"...Utilities are increasingly loading up on long term PPAs but not backing this off onto corporate end users..."
Utility



Source: Moody's, S&P, Fitch; RE100



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What are the benefits of a PPA?

PPAs bring a range of strategic advantages to all parties involved in a renewable energy project by creating long-term revenue certainty in an otherwise volatile energy market.

Benefits for Renewable Asset Owners & Developers

PPAs are crucial for turning renewable projects into bankable assets. In the absence of government incentives, they:

- Provide predictable revenue streams, helping to stabilize cash flows
- Enable financing by giving lenders the confidence of pre-sold energy at a fixed price
- Reduce project risks by distributing them more effectively among contractual parties

Benefits for Energy Buyers

PPAs serve as a tool for both cost control and sustainability:

- Secure stable, long-term energy pricing, protecting against market volatility
- Support decarbonization goals by indirectly funding renewable projects and receiving associated “green attributes,” such as Renewable Energy Certificates (RECs)

Benefits for Lenders

From a financing perspective, PPAs improve project bankability:

- Offer strong revenue certainty, as energy volumes and prices are contractually secured in advance
- Provide an opportunity to demonstrate support for the energy transition and renewable industry



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&

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We are Introducing

ROOFTOP SOLAR ENERGY



■ Renewable energy is our future
There is a kind of inevitability about it

ABOUT US

There is no doubt that humanity is facing climate change on many fronts—Bangladesh confronting the worst although the rich nations are fully responsible for the Climate Change but the poor nations are paying the price. Many governments, organizations, companies and individuals are trying to decelerate and potentially even reverse the process of global warming that is threatening the world as we know it today. These pioneers are looking to emerging green technologies, practices, and social transformation in order to succeed in the battle against climate change. The world has sufficient wind and solar resource to power our entire planet many times over. With technologies advancing rapidly, every country now has the potential to power their own energy future sustainability and cost-effectively.

ExpoTech's vision is for a world where everyone has access to clean, renewable energy and to create a world powered by clean, sustainable energy.



ExpoTech Renewable Energy Limited aims to contribute to this battle, through the promotion of solar energy. We believe that with the need for change, humanity will surface stronger and more resourceful in the future. ExpoTech envisions that the world will one day predominantly use renewable energy sources, breaking the chains of our addiction to fossil fuels and changing our destructive habits in energy and

We are one of the Leading EPC companies to bring the **ROOFTOP SOLAR ENERGY** in Bangladesh

resource consumption. We envision a world where energy management will be smarter and more efficient, which in combination with new technologies, will assure our wellbeing and will lead the human race to new frontiers. Among the pioneers in this movement is ExpoTech Renewable Energy limited, a company dedicated to providing comprehensive photovoltaic (PV) energy solutions.

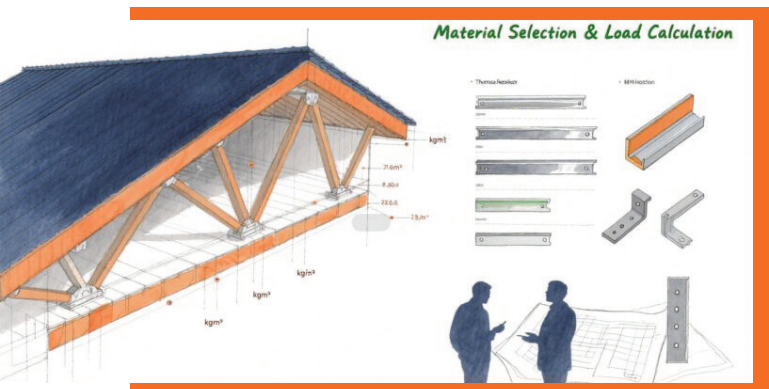




WHY GO FOR SOLAR ENERGY

To promote solar energy and implement Solar Power Stations in Bangladesh, ExpoTech has a **results-oriented approach** for all of our clients and partners, which is why we aim for the realization of PV Stations following the most efficient and optimal approach.

Roof solar installation is one of the most effective ways to generate clean energy for your home or building. By utilizing existing rooftop space, solar panels can be installed without taking up additional land. As a result, property owners can reduce electricity bills while lowering their carbon footprint. In this guide, we'll walk you through the key steps for a successful installation—from initial assessment to final grid connection—so that you can achieve a safe, efficient, and long-lasting rooftop solar system.



1 - Site Assessment and Design

The first step is evaluating your roof's structure, orientation, and sun exposure. Installers will check for:

- Roof material (tile, shingle, metal, etc.)
- Roof pitch and direction (south-facing is ideal in the Northern Hemisphere)
- Structural integrity (to support the system's weight)
- Shading issues (trees, chimneys, stair rooms, etc.)

After assessment, a customized system design is created, including panel layout, inverter location, and wiring path.

2 - Permitting and Preparation

Before starting installation, the contractor first secures all permits and local approvals. This step is essential because it ensures the system complies with building codes and utility requirements. Once everything is approved, the team moves on to prepare the roof for mounting. They carefully mark the layout, and then locate the rafters to position the anchor points accurately.

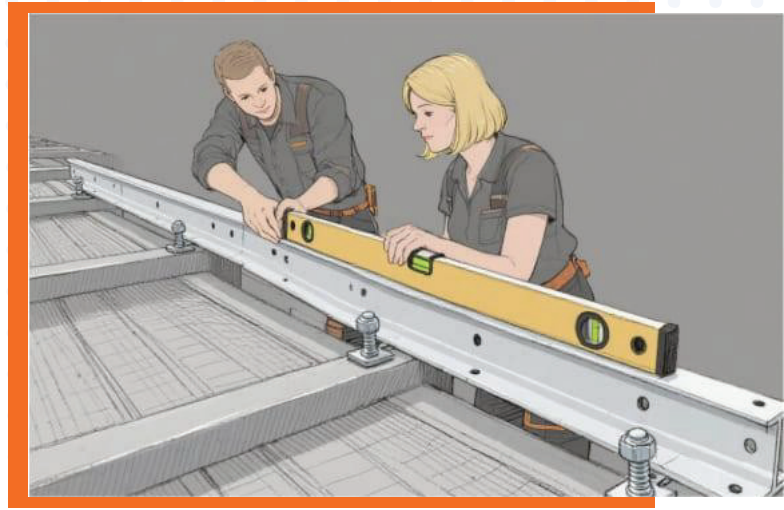


3 - Mounting Structure Installation

Mounting hardware is then installed directly onto the rafters or purlins beneath the roofing material. This includes:

- Flashing to seal the penetrations and prevent leaks
- Rails made of aluminium or steel to hold the solar panels
- Mounting brackets or clamps to connect rails to roof structure

Mounting systems vary depending on the roof type. For example, metal roofs use standing seam clamps, while tile roofs/ tin roofs often require tile hooks.

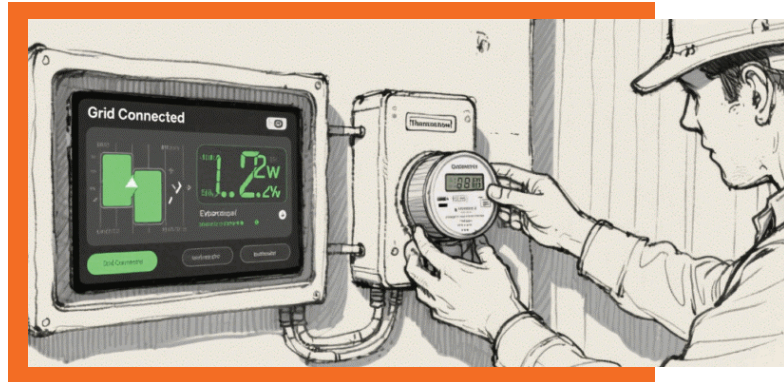


4 - Panel and Electrical Installation

Once the racking system is in place, installers mount the solar panels using mid clamps and end clamps. After that, the panels are wired together into a string, connected to inverters, and integrated into your home's electrical system. Safety shutoffs and grounding components are also added.

5 - Inspection and Grid Connection

After installation, a city or third-party inspector must review the system. Once approved, the utility provider connects your system to the grid. From there, you can start generating solar energy and monitor performance via a mobile app or dashboard.



So, **How to perform a roof solar installation?** The process includes proper assessment, strong mounting, safe wiring, and inspection. For best results, always use ExpoTech certified installers and high-quality mounting systems—such as those provided by reputable companies—for long-term safety and performance.





What is Rooftop Solar?

Rooftop solar refers to the installation of solar panels on the roofs of buildings, typically residential or commercial. These systems convert sunlight into electricity, providing a clean and renewable power source. Unlike traditional power sources, rooftop solar systems do not emit harmful pollutants, making them a popular choice for eco-conscious individuals and businesses.

TYPES OF ROOFTOP SOLAR SOLUTIONS

1 - On-Grid Solar

On-grid solar power system is a solar power generation system where it is connected to the utility grid. The electricity produced by the system is routed to the grid from where it is used to run the various appliances. The excess power at any point in time is transmitted back to the grid.

Rooftop solar solutions come in different configurations, depending on your energy needs and preferences:

2 - Off-Grid Systems

Off-grid systems are installations not connected to the electricity grid: all the energy produced is stored and used on-site.

3 - Hybrid Systems

Hybrid solar panel systems are similar to a grid solar system but use batteries to store energy for later use. This ability to store energy enables most hybrid systems to also operate as a backup power supply during a blackout, similar to a UPS (Uninterrupted Power Supply).

BENEFITS OF SOLAR ENERGY

- Solar energy offers a range of benefits, both for individuals and the environment. Let's delve into some of the key advantages:
- **Solar energy is the most abundantly available energy on earth:** Enough sunlight reaches us every 15 minutes to power the world for an entire year. And solar energy is a reliable way of power generation, at present, countries, and regions around the world have a large part of their energy from solar power generation.



- **Solar energy is more secure and clean energy on earth:** Using solar energy can achieve substantial carbon emissions, reduce disputes and promote human development.
- **Solar power is a kind of flexible energy:** Solar power is available wherever there's sunshine. You can install solar panels on the roof or on the ground. The electricity produced by solar energy can be supplied to a family or an entire city. Solar power can also solve the problem of electricity in the world's 1 billion 500 million non-electricity population.
- **Solar power is still a reliable investment:** Project developers, owners, and owners of the land can sell solar power to the power company, so they can obtain a stable income during the entire life cycle of the solar system. Whether your solar power is for personal use or for sale, you can get a good return in the near future. As the cost of solar systems continues to lower, solar energy becomes a more and more wise investment. The reliable performance of our solar products will help you gain a profit in the coming decades. In addition, solar energy does not produce noise, no moving parts, and almost no need to maintain.
- **Solar power can satisfy the growing energy needs of mankind:** The International Energy Agency report shows that the global electricity demand will be expected to increase to 31 trillion and 700 billion degrees by 2030. IEA pointed out that more than 66% of the world's electricity is generated by coal, natural gas and oil, and other fossil fuels. When fossil fuel reserves continued to decline and power consumption continued to rise, so electricity prices will continue to rise. Then there is an urgent need to develop sustainable alternative energy sources.
- **Green Light Energy is the most perfect energy solution provider:** Green Light Energy is committed to providing smarter energy solutions. Our dedication to producing top-quality, high-performance products is reflected in our world-successful stories and the most extensive customer satisfaction.



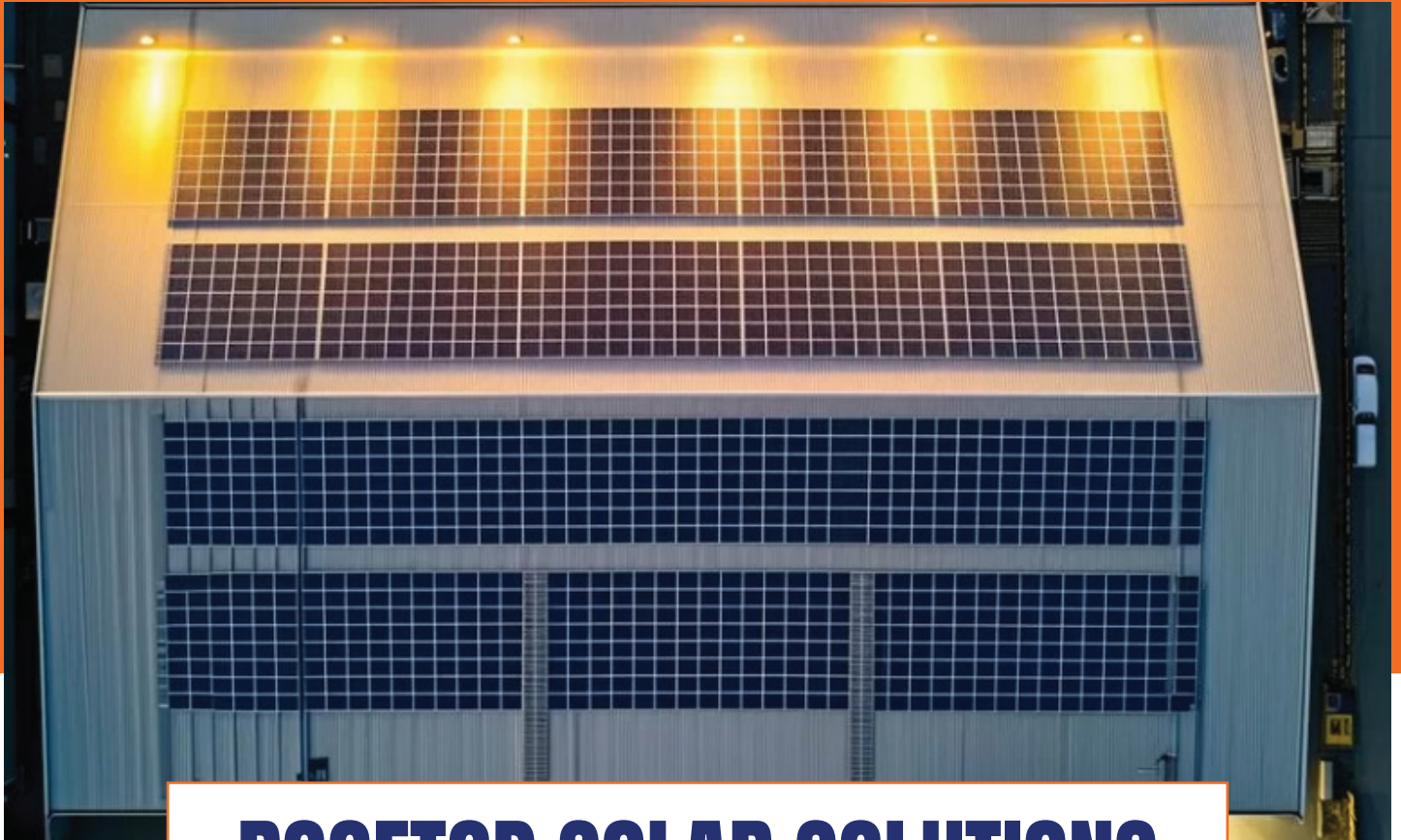
How Rooftop Solar Systems Work?

Understanding how rooftop solar systems work is crucial for making informed decisions about installation. Let's break down the key components and how they function together to produce electricity.

Key Components of Rooftop Solar Systems

Rooftop solar systems consist of several essential components:

- **Solar Panels:** These are the heart of the system, capturing sunlight and converting it into electricity through photovoltaic cells.
- **Inverters:** Inverters convert the direct current (DC) generated by the solar panels into alternating current (AC), which is used to power your home or business.
- **Mounting Systems:** These systems securely attach the solar panels to your roof, ensuring they remain in place despite weather conditions.



ROOFTOP SOLAR SOLUTIONS

HARNESSING THE POWER OF THE SUN

Rooftop solar refers to the installation of solar panels on the roofs of buildings, typically residential or commercial. These systems convert sunlight into electricity, providing a clean and renewable power source. Unlike traditional power sources, rooftop solar systems do not emit harmful pollutants, making them a popular choice for eco-conscious individuals and businesses.

The size of a solar panel is mainly determined by the number of cells, encapsulation method, and power rating. Currently, the most common monocrystalline modules on the market measure between 1.6–2.3 m in length, 1–1.3 m in width, and about 30–40 mm in thickness. The differences between models are primarily reflected in power and efficiency:

- **Solar Panels:** These are the heart of the system, capturing sunlight and converting it into electricity through photovoltaic cells.
- **Inverters:** Inverters convert the direct current (DC) generated by the solar panels into alternating current (AC), which is used to power your home or business.
- **Mounting Systems:** These systems securely attach the solar panels to your roof, ensuring they remain in place despite weather conditions.





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Industrial Solar Storage System



SAFETY
Four-in-one safety design



MANAGEMENT
Intelligent energy management



MODULE&FLEXIBLE
Free combination, fast configuration



LOW COSTS
No capacity loss



Applications

Charging pile

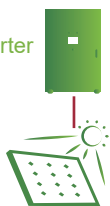
Cloud platform monitoring system

EMS

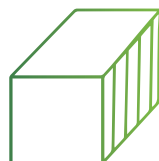
Power grid



Inverter



Photovoltaic



Poweroad Energy Storage System



Wind power generation system

Inverter



load



DC Line

AC line

Communication line



www.expotechrenewableenergy.com



Info@expotechrenewableenergy.com

Project Cases



400KW/2MWH



400KW/2MWH



400KW/8MWH



600KW/4MWH



300KW/1.5MWH



600KW/1.2MWH

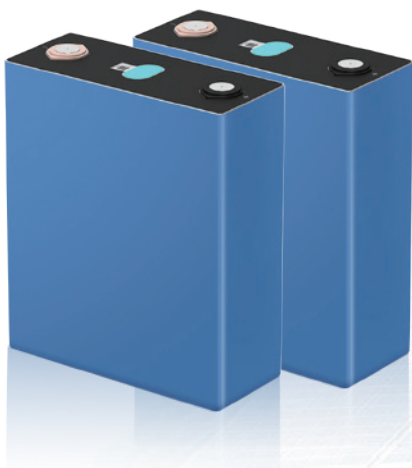


100KW/500KWH

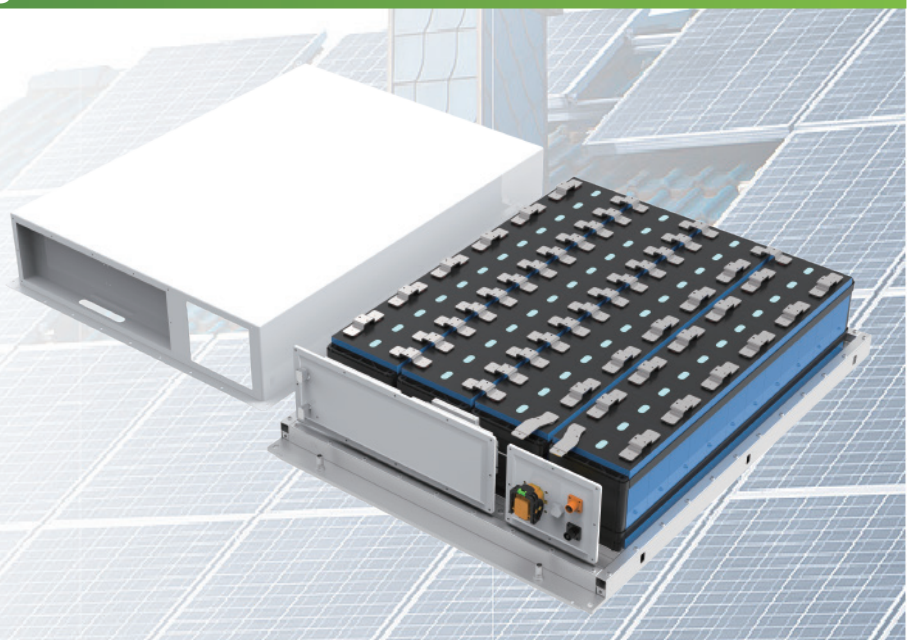


200KW/1MWH

Integrated solar cells



3.2V 280AH&314AH



Specification parameter

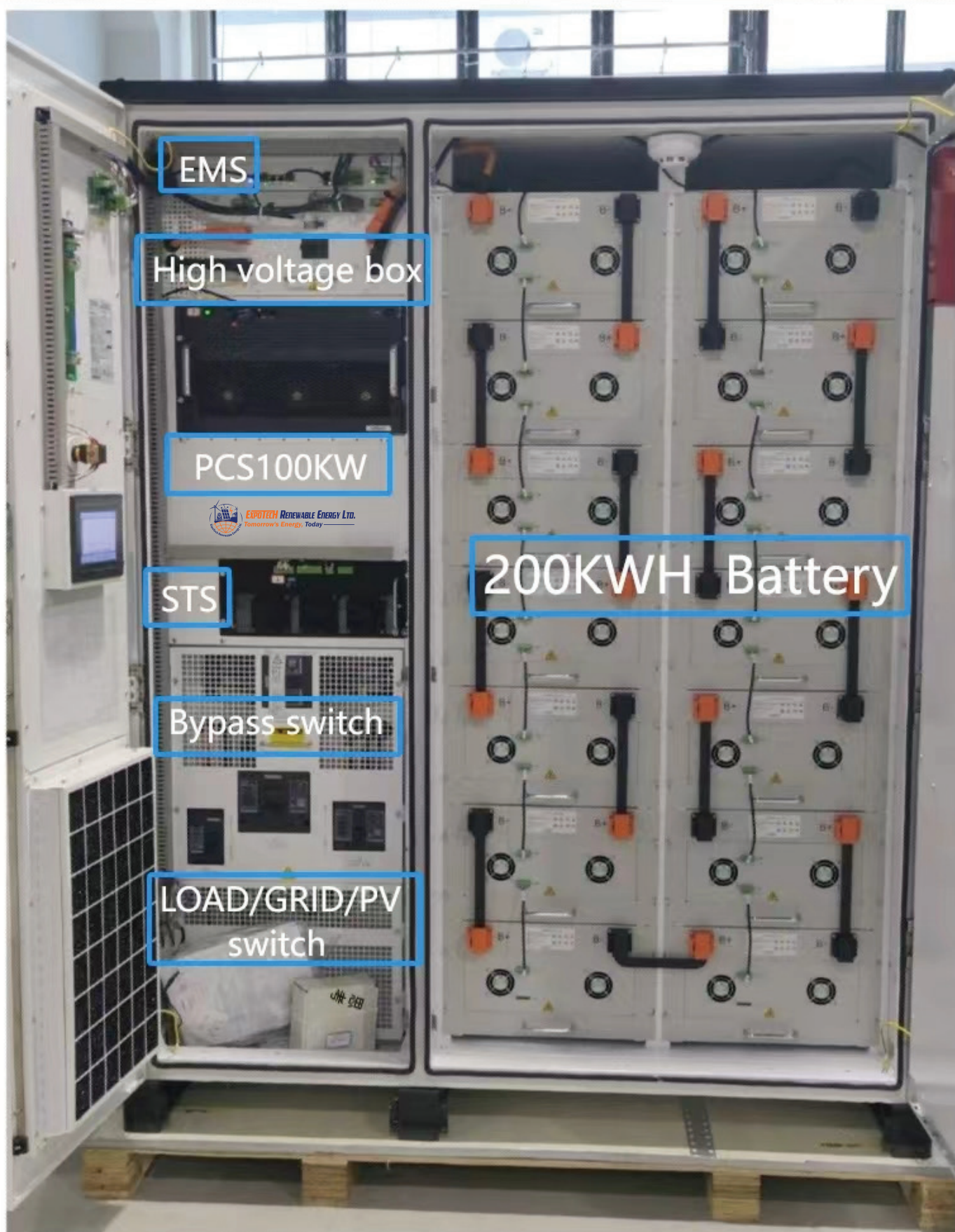


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Model		TKE-Cube A100 50KW/100KWH	TKE- Cube A200 100KW/200KWH	TK E-Cube A200 100KW/225KWH	TK E-Cube A200 125KW/241KWH
DC Battery Parameters	Cell type	LFP3.2V280AH	LFP3.2V280AH	LFP3.2V314AH	LFP3.2V314AH
	Battery module capacity and configuration	14.336KWH/1P16S		16.077KWH/1P16S	
	Max Battery Power and module quantity	100KWH/7	200KWH/14	225KWH/14	241KWH/15
	Battery voltage range	313.6V~403.2V	627.2V~806.4V		672V-864V
	Rated charge/discharge rate and current	0.5C,140A		0.5C,157A	
	Maximum charging and discharging	280A		314A	
	Number of cycles	>8000			
	Temperature detection quantity	56	112		120
DC/DC Module Parameters	Low voltage side voltage range	150~1000V	/		
	Minimum voltage at full power on low	340V	/		
	Rate Current	160A	/		
	Rated Power	50KW	/		
DC PV Parameters	Max input power	100KW	200KW		
	Maximum photovoltaic array voltage	900V			
	MPPT voltage range	200V-820V			
	Full load MPPT voltage range	530V-820V			
	Maximum branch current	20A			
	Enter the number of PV branches	8			
	MPPT quantity	4			
	Max input current	160A	320A		
	Voltage range/Voltage of main line	750V	650V~800V		
	Input Switch	1PCS 250A/1000Vdc/2P	2PCS 250A/1000Vdc/2P		
AC PCS Parameter (On grid)	AC Rate Power	50KW	100KW	125kW	
	AC Max Power	55KW	110KW	137kW	
	Rate Current	76A	152A	190A	
	Current distortion rate	<3%			
	DC component	<0.5%Ipn			
	System voltage standard	3W+N+PE			
	Voltage range	360VAC~440VAC			
	Frequency range	45~55Hz/55~65Hz			
	Power Factor	-1~1			
AC PCS Parameter (Off grid)	Rate Output Power	50KW	100KW	125KW	
	Max Single Phase Output Rate	30KW	33KW	41KW	
	Rate Output Voltage	400V			
	Rated Output Frequency	50/60Hz			
	Current distortion rate THDu	<3%			
	Overload Capacity	110%			
Off-grid switching and switch configuration	Bypass maintenance switch	125A/400Vac	250A/400Vac		
	Load Switch	125A/400Vac	250A/400Vac		
	Grid switch	250A/400Vac	400A/400Vac		
	STS Unit	250A/100KW	400A/250kW		
	Switching time	<20ms			
System Parameter	Max system efficiency	>90%			
	Working temperature	-30~55℃			
	Relative humidity	0~95%RH			
	Dimensions (length*width*height)	1050*1050*2050mm	1600*1050*2050mm	1600*1050*2350mm	
	Weight	1400Kg	2320Kg	2600Kg	
	Protect Level	IP54			
	Noise	<70dB			
	Networking form	4G/Wifi/Ethernet			
	Fire protection	Aerosol			
	Display	LCD Touch Screen			



Meet Our 200 kWh Outdoor System





ExpoTech Data Center

WHAT IS A DATA CENTER?

Data centers are facilities equipped with computing and networking resources for storing, processing, and managing digital data. Generally, the term **"DATA CENTER"** refers to a centralized facility designed to cope with significant volumes of data and advanced data processing. A data Center is a physical room, building or facility that houses IT infrastructure for building, running and delivering applications and services. It also stores and manages the data associated with those applications and services.

There are, however, also **"EDGE DATA CENTERS"**. These are small-scale facilities designed for simpler processing tasks on lower volumes of data. These data centers are typically situated near to where data is generated and/or used. This tends to be at the edge of a network, hence the name.

Data Centers started out as privately owned, tightly controlled on-premises facilities housing traditional IT infrastructure for the exclusive use of one company. Recently, they've evolved into remote facilities or networks of facilities owned by cloud service providers (CSPs). These CSP data centres house virtualized IT infrastructure for the shared use of multiple companies and customers.

BENEFITS OF MODERN DATA CENTERS ■

The combination of cloud architecture and SDI offers many advantages to data centers and their users, such as:

Optimal utilization of compute, storage and networking resources

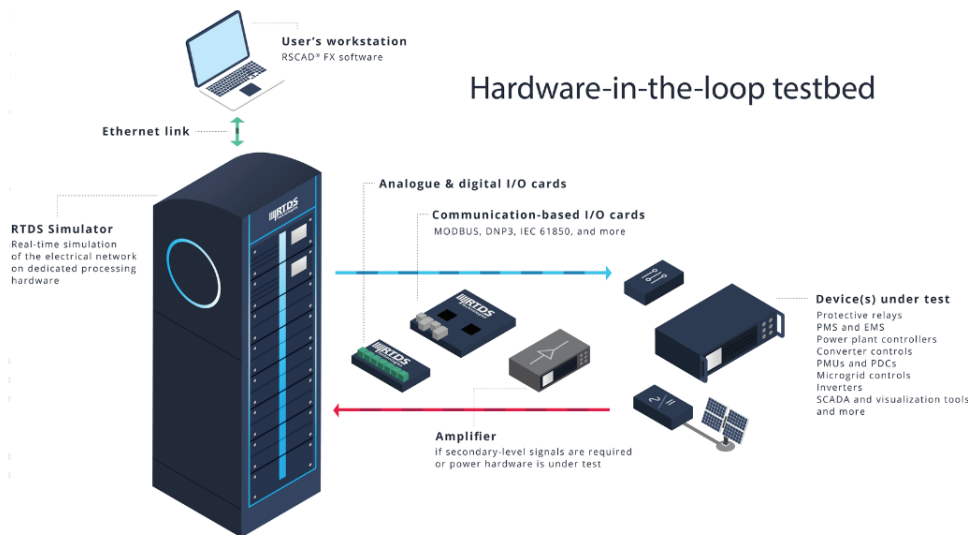
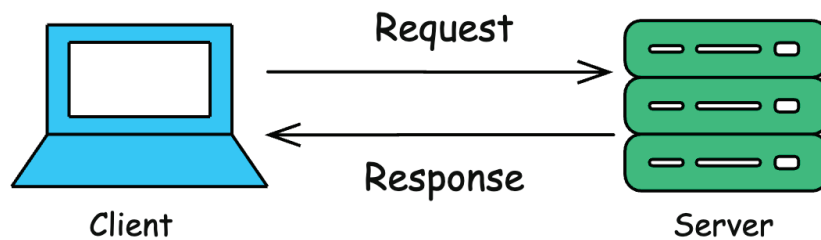
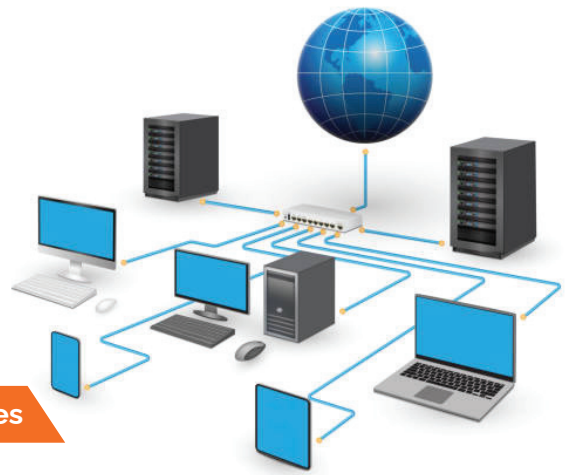
Rapid deployment of applications and services

Scalability

Variety of services and data center solutions

Cloud-native development

Optimal utilization of compute, storage and networking resources



DATA CENTER INFRASTRUCTURE COMPONENTS SERVERS

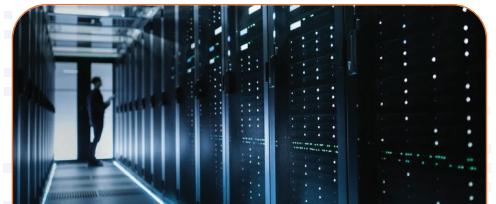
Servers are powerful computers that deliver applications, services and data to end-user devices. Data center servers come in several form factors:



RACK-MOUNT SERVERS are wide, flat, stand-alone servers the size of a small pizza box. They are stacked on top of each other in a rack to save space (versus a tower or desktop server). Each rack-mount server has its own power supply, cooling fans, network switches and ports, along with the usual processor, memory and storage.



BLADE SERVERS are designed to save even more space. Each blade contains processors, network controllers, memory and sometimes storage. They're made to fit into a chassis that holds multiple blades and includes the power supply, network management and other resources for all the blades in the chassis.



MAINFRAMES are high-performance computers with multiple processors that can do the work of an entire room of rack-mount or blade servers. The first virtualizable computers, mainframes can process billions of calculations and transactions in real time.

The choice of server form factor depends on many factors, including available space in the data center, the workloads running on the servers, the available power and cost.

Data centers are designed and equipped to control interrelated environmental factors that can damage or destroy hardware and lead to expensive or catastrophic downtime.



TEMPERATURE: Most data centers employ a combination of air cooling and liquid cooling to keep servers and other hardware operating within the proper temperature ranges. Air cooling is air conditioning—specifically, computer room air conditioning (CRAC). CRAC targets an entire server room, or at specific rows or racks of servers. Liquid cooling technologies pump liquid directly to processors or sometimes immerse servers in coolant. Data center providers are increasingly turning to liquid cooling for greater energy efficiency and sustainability as it requires less electricity and water than air cooling.



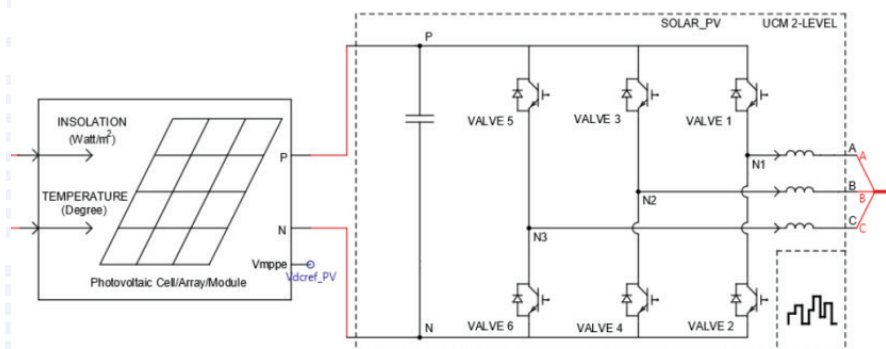
HUMIDITY: High humidity can cause equipment to rust; low humidity can increase the risk of static electricity surges. Humidity control equipment includes CRAC systems, proper ventilation and humidity sensors.



STATIC ELECTRICITY: As little as 25 volts of static discharge can damage equipment or corrupt data. Data center facilities contain equipment to monitor static electricity and discharge it safely.



FIRE: For obvious reasons, data centers must include fire-prevention equipment that is tested regularly.



THE ROLE OF DATA CENTERS IN IT INFRASTRUCTURE

Data centers play multiple roles in IT infrastructure. Here are five of the main ones.



DATA STORAGE: Data centers serve as repositories for digital data. They utilize various storage technologies such as hard disk drives (HDDs), solid-state drives (SSDs), and cloud storage solutions to accommodate diverse data types and workloads.



DATA PROCESSING: Data centers provide the computational power necessary for processing and analyzing data. Through high-performance servers, parallel processing techniques, and distributed computing frameworks, they enable efficient data processing for tasks such as analytics, machine learning, and real-time decision-making.



CONNECTIVITY: Data centers facilitate connectivity by hosting networking infrastructure that interconnects servers, devices, and users. They employ high-speed networking equipment, redundant network paths, and peering agreements with ISPs to ensure reliable and low-latency communication between distributed systems and end-users.

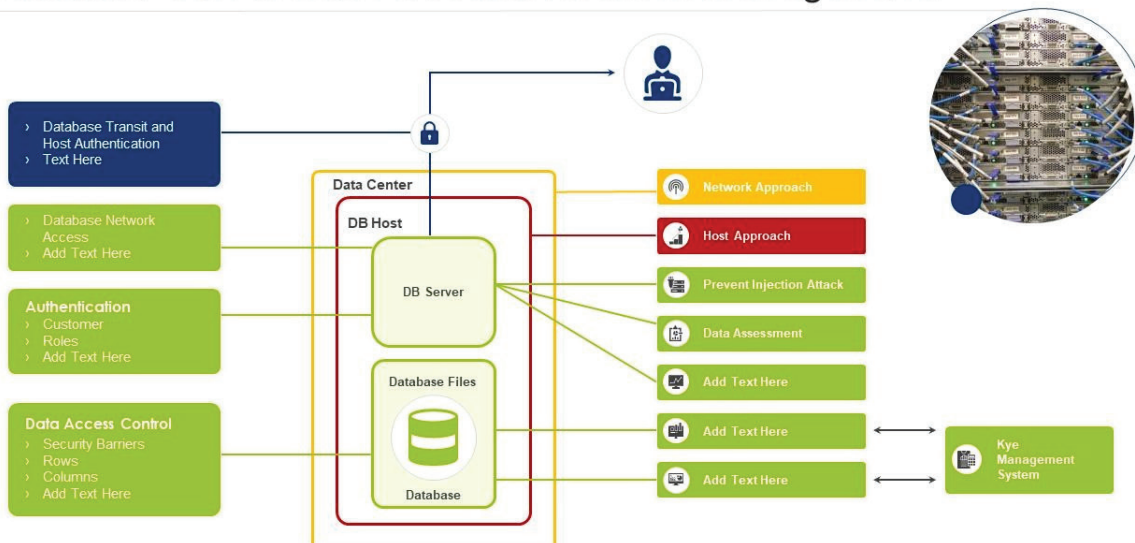


SECURITY AND COMPLIANCE: Data centers implement robust security measures to safeguard sensitive data and infrastructure from unauthorized access, cyber threats, and data breaches. These measures include access controls, encryption, intrusion detection systems (IDS), and compliance with industry regulations and standards (e.g., GDPR, HIPAA).



DISASTER RECOVERY AND BUSINESS CONTINUITY: Data centers play a critical role in disaster recovery planning and business continuity by implementing backup and replication strategies. Through data redundancy, offsite backups, and failover mechanisms, they mitigate the impact of unforeseen events such as hardware failures, natural disasters, or cyberattacks, ensuring minimal downtime and data loss.

Database Server with Host and Network Management



**SERVER
MANAGEMENT
SYSTEM**

This slide is 100% editable. Adapt it to your needs and capture your audience's attention.

Our Team



LET SOLAR BE THE POWER

Embracing the Solar Revolution from West to East



সৌরশক্তিকে প্রধান করি

দক্ষিণ - পূর্ব এশিয়ায় সৌর বিপ্লবকে আলিঙ্গন করি

M.S. Arefin

Our Publication About Solar Revolution



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LET SOLAR BE THE POWER



ExpoTech UK Limited
Let Solar Be In Every Vehicle

#18

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ExpoTech Innovation Ltd.
ExpoTech Renewable Energy Ltd.
ExpoTech Food & Beverage Ltd.
ExpoTech Data Center Ltd.

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