

PRONTO RENEWABLES

SAVE ENERGY - SAVE THE EARTH







From the Desk of Managing Director



At Pronto Renewables, our mission is to drive sustainable energy transformation by delivering reliable, innovative, and efficient solar solutions for a brighter and cleaner future. With a comprehensive portfolio that spans lithium battery production, advanced solar inverters, solar street lighting, solar-powered pumping systems, and large-scale solar power plants, we are committed to empower communities, businesses, and industries with green energy solutions tailored to their needs.

Our lithium battery production unit represents an exemplary advancement in energy storage. Pronto's lithium batteries offer extended lifespans, rapid charging capabilities, and exceptional energy efficiency, ensuring that our systems provide resilient, maintenance-free power for both residential and industrial applications.

Our line of solar inverters is designed with a focus on converting solar energy into usable power as efficiently as possible. Whether for small homes or large industrial facilities, these inverters are built to optimize energy usage, maximize solar yield, and ensure reliable performance across all environments.

Our solar street lighting solutions provide dependable, off-grid illumination that is sustainable and eco-friendly. Engineered with durability and efficiency in mind, Pronto solar street lights are ideal for illuminating streets, parks, pathways, and rural areas, offering a long-lasting lighting solution that requires minimal maintenance.

For water provisions in agricultural and remote settings, our solar pumping solutions deliver cost-effective, eco-friendly water supply for irrigation, livestock, and domestic needs. These systems are designed to run on solar power alone, reducing dependence on traditional energy sources and supporting sustainable farming practices.

Finally, Pronto's solar power plants provide comprehensive solutions for large-scale energy needs, offering sustainable, low-cost electricity that reduces reliance on fossil fuels. From planning and installation to operation and maintenance, we ensure that each plant delivers consistent, reliable, and efficient power.

At Pronto Renewables, we are passionate about enabling a clean energy future. Each of our products is designed with quality, efficiency, and sustainability at the core, reflecting our commitment to innovation and excellence in solar technology. We're proud to partner with you on the journey to a greener and more sustainable world.

JITENDRA KUMAR MALAKAR Managing Director Pronto Renewables



Company Overview

The Pronto Renewables a name synonymous with high end exposure and expertise in Power Electronics i.e. Power Inverters, Batteries and Solar Power has just started its journey with a commitment to innovation, sustainability and excellence.

With a keen understanding of the evolving energy landscape, We established Pronto in order to address the growing need for cutting-edge inverter solutions. Our vision is not only to provide reliable and efficient products but also to contribute significantly to the advancement of renewable energy and power management. We harness the power of innovation to redefine energy efficiency and reliability in the field of Green Energy.

PRONTO's R&D professionist is a seasoned professional team with its all members having profound expertise in inverter technology. They inherited a rich experience in relevant technical areas, such as power backup electronics, Inverters, control systems, making them instrumental in steering the technical advancements within the company.

With a proven track record of leading successful research and development initiatives, PRONTO is at the forefront of innovation in the renewable energy industry. Their strategic insights and hands-on approach to technical challenges have been pivotal in driving Pronto Solution's commitment to excellence in product design, performance optimization, and reliability.









Business Strategies & Strength

Pronto (Powering The Future) business strategies emphasize innovation, customer-focused solutions, sustainable energy practices, and forming strategic alliances to enhance a better market reach. Their strengths lie in cutting-edge technology, strong R&D capabilities, reliable service, and a proven track record of delivering high-quality, durable solar solutions. They prioritize long-term relationships and persistence improvements.

Why Choose Pronto Solution?

Innovation Leadership:

Pronto significant R&D investment has made it an industry leader, shaping market trends, setting standards, and driving competition.

Differentiation:

Pronto leverages R&D to offer innovative products and services, boosting brand value and enabling it to command competent market prices.

Market Expansion:

Pronto's innovative, smart, and reliable products, including Inverters, Lithium Batteries and Solar Solutions, diversity market reach with a superior technologies.

Customer Loyalty & Retention:

Continuous innovation drives customer satisfaction, retention, and repeat business, fostering loyalty and positive referrals, ultimately enhancing long-term company value.

Attracting Talent & Partnerships:

Pronto attracts top talent and partners through innovative projects, enhancing R&D capabilities and strengthening its competitive edge in the market.

Resilience & Adaptability:

Pronto demonstrates resilience in prospective markets by upgrading products, strategies & business models. We believe that User feedback plays a key role in driving continuous improvement, helping to stay competitive & adaptable.



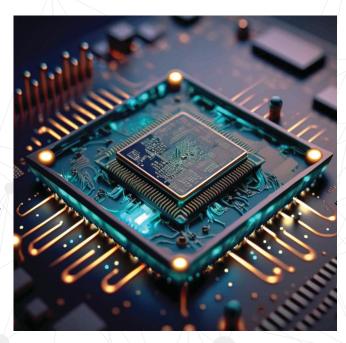
Diversifying the Boundaries of Progressive Technologies

Progressive technologies encompass a broad spectrum of cutting-edge advancements that are reshaping industries and society. As we continue to embrace and harness the potential of progressive technologies, we pave the way for transformative solutions that enhance efficiency, drive sustainability, and unlock new realms of human potential.

R&D powers our activities and we consider it an essential part of operations and growth. R&D is what gives us the edge in an extremely competitive field.

Design & Technology

Design and technology intersect to shape the products, services, and experiences that define our modern world. Through thoughtful design, technology becomes more accessible, intuitive, and impactful. Conversely, technology empowers designers to push the boundaries of creativity, enabling innovative solutions that enhance functionality, aesthetics, and user engagement. Together, design and technology form a dynamic partnership, driving continuous evolution and improvement across industries, from user interface design and product development to architecture and urban planning. As this symbiotic relationship evolves, it promises to unlock new possibilities, enriching lives and shaping the future of human experience



MANUFACTURING PLANT

Pronto proudly operates state-of-the-art facilities for inverter, batteries and PCB manufacturing, ensuring top-quality products tailored to our customers' needs. Our inverter manufacturing facility utilizes cutting-edge technology to produce efficient and reliable inverters for various applications, including residential, commercial, and industrial use. With a focus on innovation and quality control, we deliver inverters that meet the highest standards of performance and durability.

In addition, our PCB manufacturing facility is equipped with advanced machinery and processes to produce high-quality printed circuit boards (PCBs) for diverse electronic applications. From design to assembly, we offer comprehensive PCB manufacturing services, ensuring precision, reliability, and quick turnaround times. Whether it's for consumer electronics, automotive systems, or industrial machinery, Pronto Renewables delivers PCBs that meet the exact specifications and requirements of our customers.

At Pronto, we are committed to excellence in manufacturing, providing our clients with innovative solutions that drive efficiency, reliability, and competitiveness in their respective industries.













"Quality is our PASSION Performance is our HABIT"



Pronto's quality department ensures that each solar inverter, power conditioning unit (PCU), lithium battery, and other solar product meets rigorous industry standards for performance, reliability, and safety. Every product category undergoes a thorough, multi-stage testing protocol designed to guarantee high standards. Forinverters and PCUs, the quality team conducts efficiency and stability tests across various load conditions to verify optimal performance over time. This includes testing for thermal stability, power output consistency, and surge protection, making sure each product is resilient against environmental and electrical stress.

Lithium batteries also undergo comprehensive testing for longevity, safety, and compatibility. The team uses advanced diagnostics to assess battery cycles, energy density, and stability across different charge and discharge rates. Critical safety tests are performed to mitigate risks such as overheating, overcharging, and short-circuiting, with a sophisticated Battery Management System (BMS) in place to monitor and control these aspects. Compatibility testing ensures that lithium batteries integrate smoothly with solar panels, inverters, and PCUs in Pronto's systems.

In addition to these tests, Pronto's quality team performs accelerated life testing (ALT) on all solar products to simulate long-term usage, helping identify and address potential issues in product durability. Continuous improvement efforts are a key focus, with feedback from real-world data and customer experiences directly influencing product refinements. This rigorous quality assurance process ensures that Pronto delivers high-performing, reliable, and safe solar solutions that meet customer expectations across all product lines.

ADVANTAGES OF PRONTO Green Technology

TECHNICAL FEATURES

- Indigenously developed technology
- Bidirectional Inverter
- MPPT solar charge controller
- Grid Export facility
- No requirement to maintain phase sequence in 3 phase
- Suitable for 100% unbalanced load

QUALITY MEASURES

- In-house testing facility
- Incoming and in-process quality check to ensure international quality
- Trained manpower

Value for money

- Proven design
- 10 year of codal life

SERVICE SUPPORT

- Wide service network
- Warranty up to 5 years
- AMC available





Institutions



Industries



Power Plants



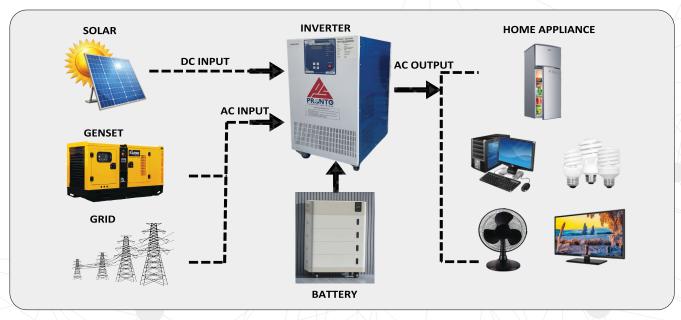
Telecom

Pure Sine Wave Technology

- Pure Sine Wave: Power conversion technology used in inverters to produce an output waveform that closely resembles a pure sine wave. This technology is designed to provide high-quality and reliable power for sensitive electronic devices, such as computers, televisions, and medical equipment. Unlike modified sine wave or square wave inverters, which produce a less smooth waveform, sine wave inverters mimic the waveform of utility grid power, delivering clean and stable electricity. This ensures compatibility with a wide range of devices, reduces the risk of electrical interference or damage, and improves the performance and efficiency of connected equipment. Sine wave inverters are commonly used in off-grid or renewable energy systems, as well as in backup power applications where reliable and high-quality electricity is essential. They are also preferred for powering equipment with motors or transformers, as they provide smoother and more efficient operation compared to other types of inverters. Overall, sine wave inverter technology plays a crucial role in delivering reliable and high-quality power for various applications, contributing to increased efficiency, reliability, and performance.
- This is the world's latest technology Inverter manufactured by PRONTO. This inverter is having all the advantages of Sign wave Inverter with backup time equal to square wave inverters. It creates no sound in load and in inverter. This gives exact replica of AC mains which is best suited for all kind of electrical appliances as all appliances are design to operate on this. This increases the appliances Life span.

MPPT Solar System

Solar technology and inverters work hand in hand to harness and convert solar energy into usable electricity. Solar panels capture sunlight and convert it into direct current (DC) electricity. However, this electricity needs to be converted into alternating current (AC) electricity, which is the standard form of electricity used in homes and businesses. Inverters play a crucial role in this process by converting DC electricity from solar panels into AC electricity that can be used to power appliances, devices, and the electrical grid. In addition to converting DC to AC, inverters also optimize the performance of solar energy systems by maximizing power output, monitoring system performance, and ensuring safety and compliance with electrical standards. They come in various types, including string inverters, microinverters, and power optimizers, each offering different benefits in terms of efficiency, scalability, and flexibility. Overall, inverters are an essential component of solar energy systems, enabling the seamless integration of solar power into the electrical grid and helping to maximize the benefits of clean, renewable energy for homes, businesses, and communities.



Home UPS / Industrial MPPT Solar PCU

Pure Sine Wave Home UPS

Pure Sine Wave Home UPS (Uninterruptible Power Supply) inverter is a critical device for providing clean and stable power to electronic devices during power outages.



This type of inverter is especially important for sensitive electronic equipment, such as computers, home appliances, and medical devices, as it prevents overheating, interference, and potential damage. By delivering reliable, high-quality power, a pure sine wave home UPS inverter ensures that essential devices continue to function seamlessly, offering peace of mind and convenience during electricity interruptions.

Solar Hybrid Inverter/PCU

A solar off-grid hybrid Power Conditioning Unit (PCU) is an advanced system designed to manage and optimize solar energy in locations without access to the main power grid, or where backup power is essential. This system combines the functionalities of a solar inverter, a charge controller, and a battery management system, allowing it to seamlessly switch between solar power, battery storage, and backup generators if needed. By utilizing solar power as the primary energy source, the hybrid PCU reduces dependence on fuel-based generators, cutting operational costs and reducing environmental impact. Equipped with intelligent controls, it efficiently monitors and regulates power flows to maximize energy availability and extend battery life. Ideal for remote areas, backup power needs, or eco-conscious setups, an off-grid hybrid PCU offers a reliable, sustainable solution for uninterrupted power supply.



Industrial Solar Hybrid Inverter

The Pronto industrial hybrid solar Power Conditioning Unit (PCU) is a specialized energy solution engineered to provide dependable and efficient power management for industrial applications. Designed to integrate seamlessly with solar power, grid electricity, and backup batteries or generators, the Pronto hybrid PCU optimizes energy use while reducing reliance on grid power. This allows businesses to minimize energy costs, reduce emissions, and ensure uninterrupted power supply—a critical requirement in industries where downtime can lead to substantial losses.

Built to handle the high power demands of industrial settings, Pronto PCUs are equipped with advanced energy management features, enabling them to monitor, control, and prioritize energy flows from different sources. With a focus on durability and resilience, Pronto PCUs can operate effectively in challenging conditions, making them suitable for factories, warehouses, and remote locations. This hybrid PCU also supports real-time performance tracking, allowing businesses to gain insights into energy consumption patterns and improve overall efficiency. The Pronto industrial hybrid solar PCU is an ideal choice for industries seeking a cost-effective, sustainable, and reliable power solution.

OFF GRID MPPT PCU / Lithium MPPT PCU

Solar Off Grid Hybrid PCU

The Pronto solar off-grid hybrid Power Conditioning Unit (PCU) with unique grid-sharing features is an innovative energy solution designed for areas where grid power is intermittent or unreliable. This hybrid PCU combines solar energy with battery storage and selective grid integration, allowing it to operate primarily off-grid while intelligently sharing power with the grid as needed. Unlike traditional off-grid systems, the Pronto PCU's grid-sharing feature enables it to draw minimal power from the grid, using it only as a supplementary source when solar and battery power are insufficient. This approach maximizes solar energy utilization, reduces dependence on grid electricity, and keeps operating costs low.

Ideal for both commercial and industrial applications, the Pronto PCU is built to handle large power loads while offering flexibility in energy management. Equipped with advanced controls, it seamlessly manages multiple power sources, maintaining a stable power supply even in challenging conditions. The grid-sharing function allows users to customize power priorities based on usage patterns and availability, enabling efficient power distribution and reduced energy costs. With a focus on sustainability and resilience, the Pronto solar off-grid hybrid PCU with grid-sharing capabilities is an ideal solution for businesses and remote locations seeking reliable, eco-friendly, and cost-effective energy independence.







Inbuilt Lithium Battery Based PCU

The Pronto inbuilt lithium battery-based solar hybrid Power Conditioning Unit (PCU) is an advanced energy system that combines solar power management with integrated lithium battery storage. This hybrid PCU is designed to deliver high efficiency, durability, and convenience, making it ideal for both industrial and commercial applications. Unlike conventional systems that rely on bulky, external lead-acid batteries, the Pronto PCU features a compact, inbuilt lithium-ion battery. Lithium batteries are known for their long lifespan, faster charging capabilities, higher energy density, and lower maintenance needs, all of which contribute to lower operational costs and enhanced system reliability.

Pronto's hybrid solar PCU seamlessly integrates multiple energy sources, intelligently prioritizing solar power while ensuring a smooth transition to battery or grid power when needed. This approach optimizes solar utilization, reduces electricity bills, and provides backup power in areas with inconsistent grid supply. Equipped with advanced energy management software, the Pronto PCU also supports real-time monitoring and smart controls for tracking performance and adjusting power flow to meet specific energy demands. Durable, space-saving, and eco-friendly, the Pronto inbuilt lithium battery-based solar hybrid PCU is a dependable solution for organizations aiming for sustainability and uninterrupted power.

SOLAR PUMPING SYSTEM



Pronto solar pumping systems offer a comprehensive range of solar-powered solutions, catering to diverse needs from domestic applications to large-scale agricultural projects. With power capacities ranging from 1HP to 10HP, these systems are designed to efficiently pump water using solar energy, reducing dependency on the grid and fossil fuels while offering significant cost savings over time.with an LFP battery into a compact setup that is easy to install and requires minimal maintenance.

For domestic use, Pronto's 1HP to 3HP solar pumping systems are perfect for residential water needs, such as irrigation for small gardens, drinking water, or water supply for households. These systems feature high-efficiency solar panels that harness the sun's energy to power pumps, ensuring a sustainable and eco-friendly solution for water supply.

For larger agricultural or industrial applications, Pronto's solar pumping systems range from 5HP to 10HP, making them ideal for irrigation of large fields, farm automation, and commercial water pumping needs. These robust systems are designed to handle heavy-duty tasks and provide consistent performance, even in remote locations with unreliable grid access. With built-in intelligent controllers, Pronto solar pumping systems automatically adjust based on available solar energy and water demand, maximizing efficiency and ensuring optimal operation.

Durable, low-maintenance, and cost-effective, Pronto solar pumping systems support sustainable farming practices, reduce operating costs, and contribute to a greener environment by reducing reliance on diesel or grid-powered water pumps. They provide reliable, off-grid water solutions for both small farms and large agricultural projects, offering a scalable solution to meet varying pumping demands.

SOLAR STREET LIGHT

The Pronto semi-integrated solar street light with a solar panel, GI (Galvanized Iron) pole, and inbuilt lithium iron phosphate (LFP) battery is a highly efficient and durable lighting solution designed for reliable outdoor use in various environments, from streets to parks and public areas. This innovative lighting system combines a high-efficiency solar panel, a sturdy GI pole, and an integrated LED light with an LFP battery into a compact setup that is easy to install and requires minimal maintenance.



The solar panel captures sunlight during the day to charge the LFP battery, which is built into the light unit. Known for their stability and long lifespan, LFP batteries are highly safe and support fast charging, deep discharge, and extended energy storage, making them ideal for ensuring consistent night-time illumination. The GI pole adds durability and corrosion resistance, making it well-suited for outdoor installations that face weather exposure.

Pronto's semi-integrated design allows for intelligent energy management, including automated dusk-to-dawn operation and brightness control based on battery charge, optimizing performance even in cloudy conditions. This system operates entirely off-grid, providing eco-friendly lighting with no electricity costs and minimal environmental impact. Ideal for both urban and rural applications, the Pronto semi-integrated solar street light with an LFP battery offers a robust, sustainable, and cost-effective outdoor lighting solution.



Pronto lithium iron phosphate (LFP) batteries offer a versatile and reliable energy storage solution suited for both home applications and large-scale industrial projects. Known for their high safety standards, long cycle life, and efficiency, LFP batteries are a preferred choice for modern energy storage systems. For home applications, Pronto LFP batteries provide a compact and durable backup power source, ensuring continuous electricity supply during outages and enabling efficient use of solar power. Their stable chemical composition reduces the risk of overheating, making them safer than many other lithium-ion battery types, and they also require minimal maintenance, reducing long-term operational costs.

In industrial and commercial settings, Pronto LFP batteries are valuable for supporting heavy power loads and stabilizing energy in off-grid or hybrid power systems. They are designed to withstand demanding conditions, offering a lifespan that can reach up to 10 years or more, depending on usage. This durability, combined with high energy density, allows them to store significant power within a smaller footprint, making them ideal for space-limited environments. Additionally, Pronto LFP batteries support fast charging and deep discharge cycles, providing the flexibility and resilience needed in applications like telecom sites, factories, and large-scale renewable energy setups. Pronto's lithium LFP batteries offer a sustainable, cost-effective solution that scales from home to industry, supporting energy independence and environmental goals across various sectors.

Solar Tubular Inverter Battery



Solar batteries are tubular batteries powered by solar energy. These are rechargeable batteries that integrate solar energy with battery power storage. Over the last few decades, the focus on solar photovoltaic (SPV) system usage to meet the growing clean power demand has increased manifold. The success of an SPV system largely depends on the efficiency of its storage. Although these batteries have been developed specifically for use in photovoltaic systems, they can also be used in other storage applications. they are used for storage of solar power is a challenge as the electricity produced especially in stand-alone systems from solar panels is intermittent, and Pronto Batteries are a solution to this challenge.

SMF VRLA Batteries

Pronto's SMF (Sealed Maintenance-Free) batteries are a highly reliable and versatile energy storage solution, particularly well-suited for telecom and solar projects. These batteries are designed to deliver superior performance, durability, and safety, making them an ideal choice for both critical telecom applications and renewable energy systems.



For telecom projects, Pronto SMF batteries provide a stable, uninterrupted power supply, ensuring that communication towers and networks continue to operate even during power outages. Their sealed design requires no maintenance, offering a hassle-free solution that reduces operational costs and downtime. These batteries are built to withstand extreme conditions, ensuring longevity and performance in remote or harsh environments, which is crucial for the demanding nature of telecom operations.

In solar projects, Pronto SMF batteries store excess solar energy efficiently for later use, ensuring that solar power systems provide reliable backup during night-time or cloudy periods. Their high charge and discharge efficiency, coupled with a long service life, makes them a trusted choice for both off-grid and hybrid solar installations. These batteries are capable of handling the deep cycles common in solar energy storage, making them particularly

effective for reducing dependency on the grid and improving the sustainability of solar projects.

Pronto SMF batteries feature cutting-edge technology that delivers exceptional power output and reliability, making them a proven and unbeatable choice for both telecom and solar applications. With their robust construction, minimal maintenance needs, and high energy density, these batteries provide consistent, efficient performance that supports the long-term success of critical energy systems.



Electrical Specifications	
STC: Irradiance 1000W/m2, AM 1.5	
spectrum, module temperature 25°C	
Model Type	SS-335
Peak power (P _{max})	333 Wp
Cell Efficiency	19%
Maximum power Voltage (V _{mn})	37.50 V
Maximum Power Current (I_m)	8.94 A
Open Circuit Voltage V _{oc})	46.30 V
Short Circuit Current (I _{sc})	9.39 A
Power Tolerance	±2%
Maximum System Voltage	1500V
Series Fuse Rating	20 A
Number of Bypass Diodes	3

Thermal Parameters	
Temperature Coefficient of V	-0.31% /°C
Temperature Coefficient of I _{sc}	0.850 % /
Temperature Coefficient of P	-0.38 % /°C
Nominal Operating Cell Temp.	47 ±2°C
Operating Range	-40 to 85°C

Mechanical Characteristics		
Dimensions	1965 x 990mm2	
Weight	21.5 kg	
Solar Cell Count	72 (in Series)	
Solar cell Type	Polycrystalline	
Construction	high transmission, Low Iron, ARC - Coated, Tempered Glass	
Frame	Anodized Aluminium Alloy	
Mechanical Load Capacity	5400 Pa	

Output (Optional)		
Cable Area	4mm2	
Cable Length	1200mm	
Connector	MC plug type IV	



Features

- Superior module efficiency and better field reliability
- Multi-buster technology based half-cut Mono PERC cells
- Reduced internal cell resistance & increased power output
- Excellence performance in partial shading & low light conditions
- Increased tolerance to microcracks and hotspots
- M10-sized solar cell for lower LCOE & Better ROI
- PID Resistance M10 cells and encapsulants
- Salt mist & ammonia resistant
- AR coated tempered PV glass
- Only positive power tolerance
- Certified to withstand harsh environmental conditions
- 100% EL Inspected to ensure micro-crack free modulester ROI



Pronto Renewables offers a complete solar power plant solution that caters to a wide range of energy needs, from small-scale residential installations to large-scale megawatt projects for commercial and industrial applications. Their

integrated solar solutions are designed to optimize solar energy generation, storage, and distribution, making them an ideal choice for sustainable, cost-effective energy production.

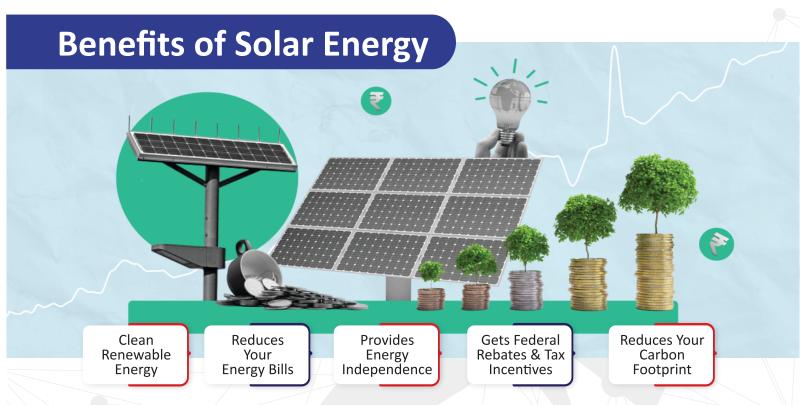
For small-scale projects, Pronto provides customized solutions that include solar panels, inverters, batteries, and power conditioning units (PCUs) designed to meet the energy requirements of homes, small businesses, and remote locations. These systems are easy to install, cost-efficient, and come with intelligent energy management features that maximize solar power utilization and minimize reliance on grid electricity.

For larger commercial, industrial, and utility-scale projects, Pronto offers robust solar power plants that range from a few kilowatts to multi-megawatt capacities. These plants are built using high-efficiency solar panels, advanced inverters, and energy storage systems to deliver reliable, scalable, and sustainable power solutions. The design and deployment of these large systems are backed by Pronto's expertise in site assessment, installation, and long-term maintenance, ensuring optimal system performance and energy output.

Pronto's solar power plant solutions are equipped with cutting-edge technology for monitoring and control, allowing users to track energy production, storage levels, and system health in real time. Whether it's for a small rooftop solar setup or a large-scale commercial solar farm, Pronto provides end-to-end solutions that include everything from system design, engineering, and installation to operation and maintenance. Their focus on high-quality components and sustainable practices ensures that customers receive the most efficient and reliable solar power systems that reduce energy costs and environmental impact, making them a trusted partner for both small and large-scale solar projects.

Our Portfolio





GLIMPSES OF ACTIVITIES AT PRONTO RENEWABLES









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