MECWIN®

EMPOWERING FUTURE

MECWIN TECHNOLOGIES INDIA PVT. LTD

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COMPANY OVERVIEW

ABOUT US

Mecwin is a leading EPC manufacturer of advanced solar power pv plants, solar pumps, MPPT Controllers, PMSM motors,The company is dedicated to delivering innovative and reliable solutions that enhance the performance of energy systemsand industrial applications. With a focus on sustainability and technological advancement, Mecwin serves a diverse range ofindustries including renewable energy, automation, agriculture,and industrial processing.

OUR VISION

At Mecwin Technologies, we stand at the threshold of a profound mission – one that transcends mere corporate ambitions and resonates with the very essence of our existence. Our vision, "Innovating for a Greener World: Unleashing Sustainable Possibilities," is not just a statement; it's a resounding call to action, a promise to the planet, and an unwavering commitment to the future.

, "Innovating for a Greener World: Unleashing Sustainable Possibilities,

COMPANY OVERVIEW

MISSION

"At Mecwin Technologies, our mission is to lead the way in transforming our world into a greener, more sustainable place. We are dedicated to innovating and delivering solutions that not only meet the needs of today but also preserve the planet for future generations."

CORE VALUES

Sustainability: Our decisions and actions prioritize sustainability, from product development to daily operations.

Innovation: We foster a culture of innovation that continuously seeks novel ways to drive sustainability.

Customer-Centricity: We aim to exceed customer expectations by offering sustainable solutions that create value.

Collaboration: We believe that solving global sustainability challenges requires collaboration with partners, stakeholders, and communities.

Integrity: Our commitment to ethical conduct guides everything we do.

, "Innovating for a Greener World: Unleashing Sustainable Possibilities,

OUR FOUNDERS

ASHARANI S S

Co- Founder & Director

With over 16 years of expertise in Sourcing, Supply Chain Management, Business Development, and Manufacturing of Electronic Products, She has built a strong foundation in optimizing supply chains, driving cost-effective sourcing strategies, and managing complex production processes. Her experience spans vendor management, logistics, and process improvement, contributing significantly to organizational efficiency and growth. Holding an MBA in Material Management from ICFAI, she combines strong technical knowledge with strategic business development skills, enabling her to lead cross-functional teams and drive business success in the electronics industry.

SHIVAKUMAR H M

Co- Founder & Director

With over 18 years of experience in Product Innovation and Development, has expertise in designing and advancing technologies for pumps, solar panels, grid synchronization panels, controllers, and EV powertrains. He is recognized for his deep knowledge of Lean Manufacturing principles and has a proven track record of driving efficiency and innovation. A Certified Six Sigma Black Belt expert, he specializes in process optimization, quality control, and reducing operational costs, making him a key asset in developing high-performance, cost-effective products in various industries.

WHY CHOOSE MECWIN

Innovative Solutions

At MECWIN, we lead with cutting-edge technology and forward-thinking solutions. Our team constantly explores and integrates the latest advancements to ensure you benefit from the most effective and efficient methods available.

Expertise and Experience

Our team comprises industry veterans with extensive experiencein their respective fields. This expertise allows us to tackle complex challenges with precision and deliver results that exceed expectations.

Customer-Centric Approach

We prioritize your needs and tailor our services to fit your specific requirements. Our dedicated customer support ensures a seamless experience, from initial consultation to ongoing assistance, making sure your goals are our top priority.

Commitment to Excellence

We are dedicated to maintaining the highest standards of quality in all that we do. Our rigorous quality control processes and commitment to continuous improvement ensure that you receive the best possible service and products.

Sustainable Practices

We are committed to sustainability and incorporate eco-friendly practices into our operations. By choosing MECWIN, you align with a partner that values environmental responsibility and contributes to a greener future.

Competitive Advantage

Our innovative solutions and strategic approach provide you with a competitive edge in the market. MECWIN's expertise and resources empower you to achieve your business objectives efficiently and effectively.

MECWIN MILESTONES

2025
No. of Employees: 250
Mfg. Space: 73000 sq. ft

2024
No. of Employees: 220
Mfg. Space: 64000 sq. ft

2023
No. of Employees: 145
Mfg. Space: 50000 sq. ft

2022
No. of Employees: 50
Mfg. Space: 12000 sq. ft

2021
No. of Employees: 87
Mfg. Space: 24000 sq. ft

2020
No. of Employees: 105
Mfg. Space: 38000 sq. ft

2019
No. of Employees: 25
Mfg. Space: 3800 sq. ft

2018
No. of Employees: 08
Mfg. Space: 400 sq. ft

2017
No. of Employees: 03
Mfg. Space: 80 sq. ft

Mecwin innovation was eshtablished with a mission to drive advancement to manufacturing technology and sustainable solutions

OFFGRID POWER PLANTS: (INDUSTRIAL & DOMESTIC ROOFS)

Off Grid System

Off-grid solar systems operate independently of the main electricity grid, utilizing battery storage to provide a reliable power supply. They are particularly suited for remote areas where grid connectivity is limited or nonexistent.

OUR PROJECTS

We have successfully executed off-grid rooftop installations for healthcare institutions, with capacities ranging from 10 kW to 200 kW.

These projects have ensured uninterrupted power for critical medical operations, particularly in rural and semiurban regions

Methodology

Solar panels capture sunlight to generate electricity, which is stored in battery systems. This stored energy is then converted through inverters to supply continuous power, ensuring operational reliability even during periods without sunlight.

ON GRID SOLAR ROOF TOP POWER PLANTS

On Grid System

On-grid systems are integrated with the public electricity grid, offering a cost-effective and scalable solution.

Through net metering, surplus power is fed back into the grid, ensuring optimal energy utilization and substantial cost savings

OUR PROJECTS

1. Residential Sector (PM Surya Ghar Yojana)

Under the PM Surya Ghar Muft Bijli Yojana, Mecwin has deployed 1kW to 3kW rooftop solar systems for households across:

Assam

North-East India

Jharkhand

Odisha

These installations empower families with sustainable electricity and savings, while supporting the Government of India's ambitious goal of achieving 1 crore solar rooftops by 2026

ON GRID SOLAR ROOF TOP POWER PLANTS

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OUR PROJECTS

2. Government Buildings

Mecwin has been awarded a 50 MW project by the Government of Rajasthan, in collaboration with RMC Switchgear, to solarize all government buildings in: **Jaipur, Dausa**

Capacities of these installations range from 5kW to 500kW, supporting the state's decarbonization goals while optimizing energy efficiency across large public infrastructures.

Methodology

During the day, solar panels convert sunlight into electricity to power the building.

Excess energy is exported to the grid via a bidirectional meter.

When solar production is low (night/cloudy days), power is automatically drawn from the grid, ensuring uninterrupted supply.

ON GRID SOLAR ROOF TOP POWER PLANTS

BENEFITS TO GOVERNMENT:

Ultra-Low Power Cost : With solar energy delivered less than ₹1.30/kWh, government bodies enjoy significant savings compared to conventional electricity tariffs —making solar one of the most cost-efficient energy sources for public infrastructure.

Optimized Use of Underutilized Spaces : Solar panels are installed on rooftops of canteens, administrative buildings, and storage blocks, transforming idle spaces into productive energy assets — without disturbing ongoing operations.

Supports National Solar Goals: Projects like ours contribute directly to national missions such as:

- PM Surya Ghar Muft Bijli Yojana
- National Solar Mission (NSM)
- State Renewable Energy Targets

Reduced Carbon Footprint : Solarization of government facilities helps meet ESG mandates, reduce diesel dependency, and promote climate-conscious governance.

Long-Term ROI & Energy Security: These rooftop systems require minimal maintenance, offer a lifespan of 25+ years, and shield government buildings from rising grid tariffs.

HYBRID ROOFTOP POWER PLANTS

Hybrid Rooftop System

Hybrid solar power systems integrate solar panels with battery storage and are also connected to the main utility grid. This allows them to supply uninterrupted power during outages while still benefiting from grid export via net metering—a reliable, dual-mode solution ideal for institutions requiring backup and efficiency

OUR PROJECTS

Under the KKRDB Avishkar Scheme Karnataka 2024 - 25 , Mecwin has successfully solarized 300+ government schools across Karnataka

- Capacity Range: 2 kW to 5 kW
- Objective: Ensure consistent power for critical
- learning infrastructure such as fans,computers, and lights

Methodology

Solar energy charges a battery backup system during the day.
This stored energy is used to power essential school equipment, even during outages.
Once the battery reaches full charge, excess power is exported to the grid through net metering—ensuring both resilience and efficiency.

HYBRID ROOFTOP POWER PLANTS

A UTILITY SCALE ROOFTOP POWER PLANTS

High-Capacity. Low-Cost. Zero Hassle.

Mecwin delivers large utility solar systems designed for PPA

Ranging from 5Mw to 100Mw .

Our Edge

PPA-based execution—zero upfront cost for clients

Optimized utility design for maximum generation

Real-time energy monitoring & smart load handling

Seamless grid integration for industrial-scale use

Trusted by industries, logistics parks & institutions

Built for scale. Powered by savings

WHY MECWIN ?

1. Government-Focused Execution:

Specialized in public sector solarization with a proven track record:

50 MW rooftop solar on government buildings

300+ hybrid systems powering schools across Karnataka

PM Suryaghar residential installations in Northeast India

We understand compliance, timelines, and deliver on-ground with precision

2.End-to-End EPC with Smart Monitoring:

From design to installation, Mecwin offers IoT enabled systems for:

Real-time performance dashboard

Predictive maintenance

Centralized control for distributed sites

This ensures long-term efficiency and minimal manual intervention

3.Engineered for Indian Conditions:

Our systems are custom-built for rural and semi urban India:

Handles low-grid stability and harsh terrain

Designed for critical use cases like hospitals, schools, and irrigation

Delivers lowest energy costs (as low as ₹1.3/kWh)

4.Pan-India Reach, Local Execution:

Execution strength across Tier 2/3 towns and remote areas:

Assam, Odisha, Jharkhand, Rajasthan, Karnataka

Strong local vendor and technician networks for fast and quality deployment

5.Mission-Aligned and Scalable:

Focused on accelerating India's clean energy goals throughreas:

School electrification

PM Suryaghar and KUSUM schemes

Scalable models that align with national solar missions

MECWIN IOT (Remote Monitoring)

Scalable Tech Infrastructure:

Real-time device monitoring & remote control Cloud + Edge computing for low-latency processing

AI-powered insights for smarter decisions

Robust Hardware & Connectivity:

Supports 4G, NB-IoT, LoRa, Zigbee, Wi-Fi,Bluetooth

Smart sensor integration: temperature, air quality, GPS, voltage & more

Encrypted, secure networks with controlled acces

Industrial & Smart Infra Applications

RMS for automation & predictive maintenance

Smart energy systems & asset tracking

Workflow automation across sectors

Government-Grade Implementation

IoT flowmeter integration for water management

Real-time data sync with govt portals

Projects executed under Smart Cities & infrastructure missions

SUBMERSIBLE SOLAR PUMPS

Submersible Water Pumps

Submersible pumps range from Mecwin Solar supports varied applications like field irrigation or supplying potable water for your communities,while drawing water from underground water sourceslike bore-wells or sumps.

Surface Water Pumps

Surface pumps range from Mecwin Solar supports varied applications like field irrigation or supplying potable water to your communities, while drawing water from nearby water sources like lakes, ponds, canals or rivers.

Benefits

- Grid changeover option available to operate with grid power
- Auto ON/OFF feature for utilizing maximum solar energy
- Payback period (as compared to equivalent water from diesel pump) of 2 to 3 years
- Ideal for areas with low or minimum grid power
- 25 years warranty for the modules and 5 years warranty on pump and controller

IOT CONTROLLER

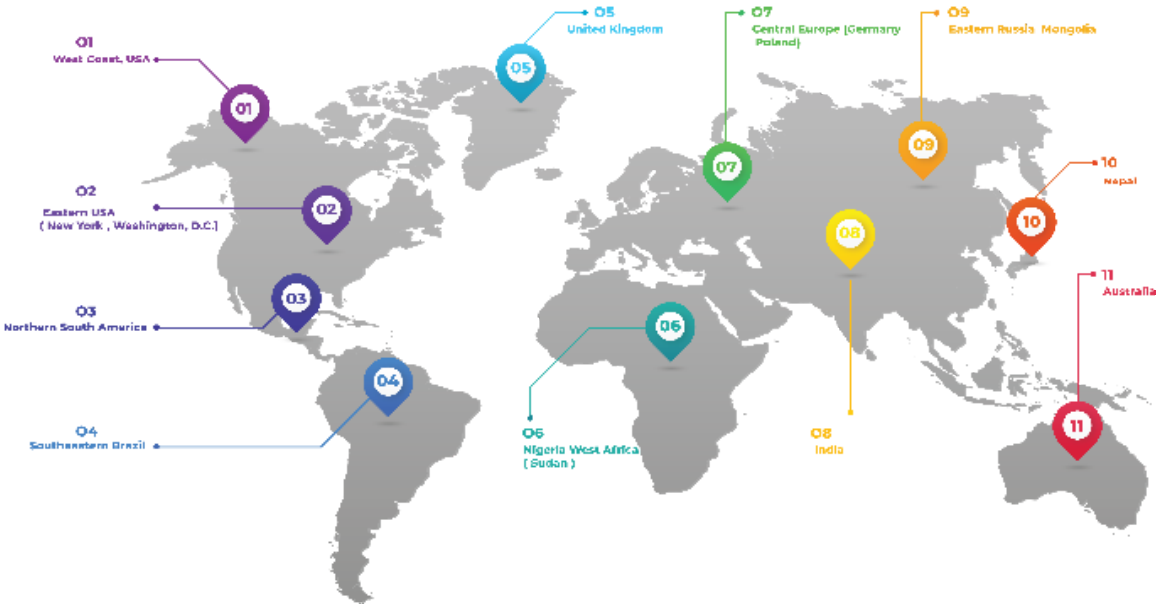
Mecwin Controllers

- Easy configuration for a class of motor types
- Designed to run even in low solar power
- Specially designed for 1hp to 10hp, DC/AC solar motors
- Higher performance with in-build MPPT
- Thermal overload shut down to avoid damage to the Controller
- Robust Modbus transceiver with ESD, EFT & Surge Immunity
- RMS is capable of MQTT or HTTP data uplinks implementations
- GSM/GPRS based solar drive monitoring unit
- Location mapping via network co-ordinates
- Nano Sim Support & Sim ESD protection
- Compatible with external antenna & extendable Micro-SD up to 64gB

SERVICE AND SUPPORT

Our Service & Support team are directly accesible in Pan India.

MECWIN GLOBAL PRESENCE



CONTACT US

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