AEROSUN ENERGY

PRIVATE LIMITED

Power your future with clean energy

PRODUCT CATALOGUE | 2026

Solar • Wind • Storage • Integrated systems



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CLEAN ENERGY PORTFOLIO

Power your future with clean energy

Energy solutions designed around each home, farm and business.

PORTFOLIO FOCUS

- Solar energy
- Wind development

MORE WAYS TO POWER

- Battery storage
- Integrated systems



System options are assessed for each project; suitability and final configuration depend on technical and site review.

Clean energy for your home

Rooftop solar options planned around household electricity needs.

SUITABLE FOR

- Independent houses and villas
- Residential buildings and apartments (subject to suitable common-area arrangements)
- Residential properties with suitable rooftop space

SYSTEM OPTIONS

- Grid-connected: subject to applicable DISCOM approvals and regulations
- Off-grid: solar with battery storage for independent electricity supply
- Hybrid: solar with suitable storage and grid or backup arrangements

POTENTIAL BENEFITS

- Renewable electricity generation
- Potentially lower grid purchases and reduced reliance on conventional energy
- Better rooftop use; optional battery backup when appropriately designed



Capacity depends on electricity consumption, rooftop area, solar exposure, budget and applicable regulations.

Smarter energy for businesses

Rooftop solar can generate electricity for commercial and industrial operations.

SUITABLE FOR

- Retail shops • Offices • Warehouses • Manufacturing units
- Hotels • Hospitals • Educational institutions • Commercial buildings

POTENTIAL BENEFITS

- Potential reduction in electricity expenditure
- Better use of available rooftop space
- Reduced dependence on conventional electricity
- Improved energy planning and support for sustainability objectives

SOLUTIONS

- Grid-connected commercial and industrial rooftop solar
- Solar for daytime energy consumption
- Hybrid solar with battery storage
- Customised energy assessment



From energy review to commissioning

A coordinated process for commercial and industrial solar projects.

01–04 | PLAN

- 01 Understand — electricity consumption
- 02 Review — electricity bills
- 03 Assess — site and rooftop suitability
- 04 Design — system configuration

05–07 | DELIVER

- 05 Propose — commercial proposal
- 06 Coordinate — installation through qualified partners
- 07 Commission — applicable checks and handover



Scope, system design and expected performance assumptions are prepared for the individual site.

Solar power for agriculture

For irrigation, water pumping, farm lighting and other suitable farm loads.

APPLICATIONS

- Solar irrigation pumps
- Agricultural water pumping
- Farm lighting and off-grid farm electricity
- Agricultural energy systems and rural applications

SYSTEM CONFIGURATIONS

- Solar pump — PV modules power a compatible agricultural pump
- Standalone — independent solar system for suitable farm loads
- Hybrid — solar plus battery storage or another compatible source



Sizing requires review of pump capacity, water requirement, total dynamic head, water source, operating hours and site conditions.

Independent energy for remote locations

Solar generation, battery storage and power conversion for suitable independent supply.

SUITABLE FOR

- Remote houses and farmhouses
- Agricultural fields and rural facilities
- Small commercial establishments and isolated buildings
- Suitable telecom and monitoring applications

DESIGN CONSIDERATIONS

- Connected load • Daily energy use • Peak demand • Backup duration
- Solar resource • Battery capacity • Future expansion

SYSTEM COMPONENTS

- Solar PV modules
- Charge controller or compatible inverter
- Battery storage
- Protection equipment
- Distribution panel, wiring and accessories



An off-grid system is customised to demand and site conditions.

Store energy. Use it when needed.

Battery storage can support suitable solar systems and applications.

APPLICATIONS

- Residential and commercial backup
- Off-grid systems
- Solar hybrid installations
- Remote power applications

STORAGE OPTIONS

- Selection depends on application and may include suitable lithium-based or other compatible battery technologies.

SELECTION PROCESS

- Customer load profile
- Backup requirements and energy capacity
- Battery chemistry and inverter compatibility
- Battery management and protection
- Warranty and service arrangements



Potential benefits include backup electricity, better use of solar generation and support for off-grid operation.

Small wind-generator development

Customised product direction for decentralised electricity requirements.

PROPOSED DEVELOPMENT RANGE

- 100 W – 10 kW

INTENDED APPLICATIONS

- Agricultural properties
- Rural locations
- Remote facilities
- Small businesses
- Suitable distributed-energy installations

PRODUCT DEVELOPMENT FOCUS

- Customised generator capacities
- Permanent-magnet generator technology
- Vertical-axis turbine concepts
- Mechanical and electrical integration
- Low-wind-speed performance investigation
- System monitoring and testing



The range and product performance are under development and require engineering validation and testing.

AeroSun AS-WG-3000

Flagship 3 kW hybrid vertical-axis wind-turbine development project.

PROPOSED CONFIGURATION

- 3 kW target electrical output
- Hybrid Savonius–Darrieus vertical-axis turbine
- Three external helical Darrieus blades
- Central Savonius starter rotor
- Direct-drive permanent-magnet generator concept
- Electrical power conversion and protection



Rated output, starting wind speed, power curve, efficiency, reliability and operating limits remain subject to engineering validation and physical testing.

Solar–wind hybrid energy systems

Two renewable sources can complement one another under suitable environmental conditions.

PROPOSED SYSTEM ARCHITECTURE

- Solar PV modules
- Wind generator
- Compatible power conversion equipment
- Battery storage
- Energy management system
- Electrical protection, monitoring and control

SUITABLE APPLICATIONS

- Farms
- Remote buildings and rural facilities
- Small commercial operations
- Off-grid installations
- Suitable institutional applications



A hybrid system does not guarantee uninterrupted power unless generation, storage, load management and backup are properly designed.

Renewable-energy consultation & feasibility

Make an informed energy investment by understanding actual requirements first.

ASSESS THE SITE AND DEMAND

- Electricity consumption assessment
- Solar rooftop suitability assessment
- Wind-resource assessment coordination
- Agricultural energy requirement assessment

PLAN A SUITABLE SYSTEM

- Off-grid and solar–wind hybrid feasibility
- Preliminary system sizing and equipment selection
- Project cost and energy-generation estimation



Assessments and estimates are preliminary until validated for the specific site, selected equipment and project scope.

A clear project development process

A practical sequence from first enquiry through installation handover.

01–04 | PLAN

- Customer enquiry — understand energy needs
- Requirement assessment — review bills, loads and usage patterns
- Site evaluation — rooftop, land, solar exposure, wind and installation needs
- System design — suitable preliminary technical configuration

05–07 | DELIVER

- Commercial proposal — estimated cost, scope and performance assumptions
- Procurement & execution — installation through qualified partners
- Testing & handover — applicable checks, commissioning and customer handover



Project scope and performance assumptions are prepared for the individual site.

WORKING TOGETHER

Why choose AeroSun Energy?

A customer-oriented approach built around actual project requirements.

ENERGY FOCUS

- Solar and wind energy solutions
- Solar–wind hybrid technology
- Agricultural and rural applications
- Small wind-generator development

PROJECT APPROACH

- Customised system planning
- Equipment integration
- Quality-conscious supplier selection
- Customer-oriented technical assessment



We aim to plan around customer requirements rather than offer one configuration for every application.

CONTACT AEROSUN ENERGY

Let’s plan your clean-energy project

Connect with our team to discuss your energy requirements.

REACH OUR TEAM

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Let’s build a cleaner and more sustainable energy future together.



Thank you

Powering practical clean-energy choices together.

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Product direction and performance are subject to site assessment, engineering validation, applicable approvals and testing.

