SUNRUN

Solar Energy & Earthing Solutions

SUNRUN ENERGY SOLUTION

Powering the Future with Clean Energy & Certified Grounding Systems

Document: Corporate Profile & Engineering Capabilities



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CEO's Message

Powering Pakistan's Future with Confidence, Innovation, and Purpose



Owais Shokat

Chief Executive Officer
SunRun Energy Solution

We move forward with confidence and purpose, built on the operational excellence, technological capabilities, and commercial foundations we have established since 2018. As we enter this next chapter, our vision is clearer, our commitment is stronger, and our passion for transforming Pakistan's energy landscape is greater than ever.

Pakistan's energy sector stands at a critical crossroads. Rising electricity costs have placed an increasing burden on businesses and households, while the affordability and reliability of uninterrupted power remain persistent challenges. Volatility in global oil and gas prices, pressure on foreign exchange reserves, and geopolitical uncertainties continue to challenge the country's ability to secure the energy resources required for reliable power generation. These realities point to an urgent need for smarter, more resilient, and cost-effective energy solutions.

For a developing nation like Pakistan, energy is far more than a basic necessity; it is a strategic driver of economic progress to unlock its full potential.

At SunRun, we believe this challenge presents a defining opportunity: to become an integral part of a comprehensive energy solution. We see Pakistan's energy challenges not merely as obstacles, but as a call to innovate, adapt, and lead with purpose.

Our mission at SunRun is simple, bold, and clear:

"To deliver affordable, reliable, and uninterrupted power to businesses and individuals, helping Pakistan shine brighter on the global stage."

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Corporate Overview, Vision & Core Principles

About SunRun Energy Solution

Established with an engineering-first mindset, SunRun Energy Solution is a premier provider of clean energy generation and electrical asset protection across Pakistan. We deliver turnkey Solar Photovoltaic (PV) power systems, micro-to-commercial Wind Energy systems, and certified Lightning Protection and Earthing Solutions for homes, enterprises, and national EPC partners.

Our Vision

"To become Pakistan's most trusted and recognized brand for reliable Solar Energy and Earthing Solutions."

Our Core Principles

1. **Engineering Integrity & Precision:** Every installation complies strictly with international electrical and earthing codes (IEC, IEEE, NFPA).
2. **Safety & Asset Longevity First:** Uncompromising safety protocols ensuring high-voltage and structural installations protect life and capital assets.
3. **Transparency & Performance Accountability:** Verifiable energy yields, tier-1 bill of materials (BOM), and certified earth-resistance testing.
4. **Uncompromising Quality:** Deploying only authentic Tier-1 equipment and certified grounding compounds.
5. **Customer-Centric Partnership:** Responsive post-commissioning technical maintenance, system monitoring, and ongoing support.

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Solar Energy Solutions (Resedential, Commercial and Industrial)

We engineer bespoke on-grid, off-grid, and hybrid solar photovoltaic systems tailored to specific load profiles and architectural requirements.

1 Residential Solar Solutions

- Engineered rooftop solar installations designed for urban homes and villas.
- End-to-end net-metering facilitation for maximum power export and utility offset.
- Hybrid inverter systems paired with advanced lithium storage for uninterrupted power during outages.



2 Commercial & Industrial (C&I) Solar Solutions

- Scaled energy systems for industrial facilities, corporate headquarters, warehouses, and academic campuses.
- Engineered to slash operational overheads (OPEX) and shield businesses against escalating utility tariffs.
- Multi-string inverter synchronization with industrial diesel generators (DG) via zero-export and reverse-power protection relays.





3 Milestone Showcase: 1MW+ Residential Cluster Solar Sites



1MW+

- **Distributed Community Scale:** Successfully executed 1MW+ residential solar cluster deployments, setting an industry benchmark for community-level distributed solar generation.
- **Synchronized Infrastructure:** Multi-rooftop stringing, centralized monitoring, and synchronized net-metering integration across residential sectors.

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Solar Mounting Structures & EPC Outsourcing

1 Specialized Solar Mounting Structures

Structural integrity governs plant longevity. SunRun designs, fabricates, and erects high-tolerance mounting structures engineered for high wind loads and coastal corrosion resistance.

- **Elevated Superstructures:** Heavy-gauge galvanized steel framing designed to preserve complete rooftop utility, open space, and recreational use while withstanding severe wind shear.
- **PIB Shed-Type Solar Structures:** Precision leak-proof and penetration-free clamping solutions tailored for industrial profile sheets and Pre-Engineered Building (PIB) roofs.





2 Solar EPC Outsourcing (Contractor Subcontract Model)

SunRun acts as an execution partner for major national Solar EPC contractors, providing reliable subcontracted mechanical and electrical execution.

- **High-altitude module rigging,** mechanical torque-calibrated assembly, and structure erection.
- **DC/AC Balance of Plant (BOP)** cabling, combiner box integration, and inverter station wiring.
- **Standardized QA/QC checklist** verification for fast-track project handovers.



3 Tier-1 Technology Partners

Solar Modules:	LONGi Solar, Jinko Solar, Canadian Solar, JA Solar
Inverters & Power Electronics:	Sungrow, Solis, Inverex Nitrox
Battery Storage:	Dyness, Zing, Itel, Inverex

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Wind Energy Solutions

Harnessing Pakistan's Wind Potential

SunRun Energy Solution provides innovative wind energy systems engineered for residential, commercial, and hybrid microgrid applications. By harnessing localized wind currents, we enable clients to diversify clean power generation beyond daylight hours.

1 Residential Wind Turbines (1 kW to 20 kW)

- **Vertical Axis Wind Turbines (VAWT):** Compact, omnidirectional, ultra-quiet turbines ideal for urban and residential rooftops with turbulent wind flows.
- **Horizontal Axis Wind Turbines (HAWT):** High-aerodynamic efficiency systems designed for coastal, peri-urban, and open residential properties with steady wind corridors.
- Low cut-in speeds ensuring consistent power generation even during moderate wind conditions.



2 Commercial Wind Projects

- Customized wind energy solutions engineered for telecom towers, agricultural lands, farmhouses, and industrial perimeters.
- Scaled multi-turbine deployments paired with smart grid-tied micro-inverters.



3 Solar-Wind Hybrid Systems

- Intelligent integration combining solar PV arrays with wind turbines on a single power-management bus.
- Delivers continuous, complementary day-and-night renewable generation to maximize off-grid resilience and minimize grid dependency.



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Lightning Protection & Earthing Services

Electrical grounding and surge suppression are fundamental to protecting high-value solar/wind infrastructure, industrial machinery, and human life.

1 Residential Earthing Pit Installation

- Low-resistance dedicated earthing pits for domestic distributions, sensitive appliances, and smart home automation.
- Chemical grounding enhancements to maintain consistent ohmic resistance year-round.



2 Industrial Earthing Pit Installation

- Heavy-duty earthing grids and deep-bore systems engineered for transformers, switchgears, and heavy industrial machinery.
- High-conductivity copper-bonded rods, non-corrosive backfill compounds, and certified test wells.



3 Lightning Arrester Calculations & Installation

- Risk assessment and rolling sphere method calculations in accordance with IEC 62305 standards.
- Installation of Early Streamer Emission (ESE) and traditional Franklin rod lightning arresters.



4 Earthing Systems for Solar & Wind Plants

- Integrated DC, AC, and equipment frame grounding networks for renewable plants.
- Equipotential bonding to prevent Potential Induced Degradation (PID) and eliminate fire hazards from surge events.



Authorized Earthing Brands

- **Furse (ABB Group) & Erico (nVent)** — Certified world leaders in grounding conductors, exothermic welding, and lightning protection hardware.

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Health, Safety & Environment (HSE) Policy

SunRun operates under a strict Zero Harm mandate across all installation sites, elevated structures, and electrical commissioning environments.

1. **PPE Enforcement:**
   Mandatory use of certified high-voltage safety gear, insulated tools, safety boots, and high-visibility apparel.

2. **Working at Heights Safety:**
   Daily scaffolding inspections, mandatory full-body harnesses with double lanyards, and certified lifeline anchoring on elevated structures and industrial sheds.

3. **Electrical Safety & LOTO:**
   Rigorous Lockout/Tagout (LOTO) procedures during inverter tie-ins, transformer terminations, and high-voltage string testing.

4. **Site Risk Assessment:**
   Mandatory Job Safety Analysis (JSA) and daily tool-box talks prior to liftting heavy machinery, civil excavation, and structural hoisting.

5. **Environmental Stewardship:**
   Safe disposal and recycling of decommissioned electrical hardware and eco-conscious construction practices.



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Featured Projects & Valued Clients

Our track record is demonstrated by successful multi-sector project executions and long-term partnerships with leading corporate institutions, defense establishments, and premier energy corporations across Pakistan.

1 Key Project Portfolio

Sector / Application	Scope Delivered	Technical Highlights
Community Residential Sites	1MW+ Cluster Solar Deployments	Multi-site distributed rooftop integration with custom elevated superstructures.
Commercial & Industrial (C&I)	Rooftop Solar & Wind Hybrid Systems	Custom PIB shed clamp-mounting, zero-export integration, and DG synchronization.
National EPC Subcontracting	Turnkey Mechanical & Electrical Execution	High-tolerance module rigging, DC/AC cabling, and BOP commissioning for EPC leaders.
Institutional & Defense	Certified Earthing & Lightning Grids	Deep-bore chemical earthing pits, rolling-sphere calculations, and Furse/Erico systems.

2 Valued Clients & Partners

- SkyElectric — SkyElectric
- INVEREX SOLAR ENERGY — Inverex Solar Energy
- PAKISTAN MARITIME ACADEMY — Pakistan Maritime Academy
- GREAVES SOLAR — Greaves Solar
- DewMak Energy — DewMak ENERGY
- NEC — National Engineering Company
- Military Engineering Services (MES) — (MES)
- OK — OK BUILDERS & Developers

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Contact Information & Corporate Credentials

Partner with SunRun Energy Solution

Whether you are planning a residential net-metered system, a commercial wind-solar hybrid installation, an EPC subcontract execution, or a certified lightning protection grid, our engineering team is ready to assist.

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