

Sunil Prajapat

+91 8955808892 | DOB: 10-02-1994 | [linkedin.com/in/sunil-prajapat-32534915b](https://www.linkedin.com/in/sunil-prajapat-32534915b)
Rajaldesar, Churu, Rajasthan – 331802, India

PROFILE SUMMARY

Electrical Engineer with **6+ years** in mission-critical facility operations, high-voltage systems, and renewable energy infrastructure across India and Europe. Proven track record in **design, commissioning, preventive maintenance, and root cause analysis (RCA)** of complex electrical systems including transformers, switchgear, UPS integration, and SCADA monitoring, Solar plant, Wind energy plant. Hands-on leader with a mix of **field and office expertise**, capable of managing multi-site engineering operations, construction projects, and upgrades under **high availability and redundancy requirements**.

CORE COMPETENCIES

- **Mission Critical Systems:** High Voltage (33kV) & LV Distribution, Switchgear, UPS, PDUs, STS, Diesel Generators, Transformers, SCADA
 - **Preventive & Corrective Maintenance:** RCA, Corrective Actions (CA), Failure Analysis, Risk Mitigation
 - **Design & Simulation:** AutoCAD, PV*SOL, PVsyst, Hybrid PV Planning, Electrical Load Flow
 - **Project Execution:** Fit-Out, Construction Oversight, Commissioning, Testing, Compliance (MNRE/BIS, Safety Codes)
 - **Cross-Functional Coordination:** Operations, EHS, Design, Construction, Procurement, Supplier Management
 - **Procurement & Supply Chain:** Raw Material Sourcing, Vendor Evaluation, Negotiation, Quality Compliance, Logistics Coordination
 - **Mechanical Systems Awareness:** Cooling towers, Pumps, HVAC Interface, Heat Exchangers (BOP exposure)
 - **Safety & Compliance:** PTW, LOTO, Electrical Supervisor License (Class A), HSE Audits
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PROFESSIONAL EXPERIENCE

Chief Technical Officer (CTO) [Engineering Manager – Mission Critical Systems]

Stegpearl & EPP Solar – Jaipur, India & Magdeburg, Germany

Jul 2022 – Mar 2025

- Led **design, technical operations, and commissioning** of residential & commercial hybrid PV systems with **UPS and battery backup for critical loads**, achieving maximum uptime.
- Directed **technical support** for 10+ European brands, providing **RCA & CA documentation** for electrical faults and failures.

- Managed **construction review & equipment submittal approvals** for new installations, ensuring compliance with electrical codes and safety standards.
- Coordinated with suppliers for **switchgear, inverters, and high-voltage components**, ensuring on-time, quality-compliant deliveries.
- Delivered in-house **technical training programs** for engineers on electrical protection systems, commissioning, and preventive maintenance.
- Supervised **field installations, inspections, and audits**, generating risk reports and recommending mitigation strategies.

Procurement & Raw Material Management (Solar):

- Procured raw materials including **solar modules, inverters, batteries, mounting structures, switchgear, and BOS components** for projects across India & Germany.
- Coordinated with **Chinese and European suppliers** for vendor evaluation, negotiations, and long-term contracts.
- Conducted **raw material quality inspections** ensuring compliance with IEC/MNRE/BIS standards and reduced defective supply risk.
- Managed **inventory planning, logistics, and supply chain operations** to optimize project timelines and reduce costs.
- Implemented **cost-saving procurement strategies** achieving efficiency without compromising on quality.
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Electrical Engineer – Operations & Maintenance

Suzlon Energy Ltd. – Jaisalmer, Rajasthan

Jan 2021 – Feb 2022

- Maintained and troubleshoot **mission-critical wind turbine electrical systems** including **33kV transformers, switchgear, control panels, yaw/pitch drives**.
 - Conducted **SCADA monitoring** to track faults, downtime, and energy output; prepared daily operational reports.
 - Executed **RCA and CA** for electrical breakdowns, replaced protection relays, and restored operations within SLA timelines.
 - Coordinated with **grid authorities** for synchronization and compliance with voltage/frequency parameters.
 - Ensured **safety compliance** through PTW, LOTO, and toolbox talks.
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Electrical Engineer – Service Department

UTL Solar Pvt. Ltd. – Churu, Rajasthan

Apr 2022 – Jul 2022

- Installed & commissioned **off-grid and hybrid PV systems** with integrated UPS for residential clients.
- Diagnosed and repaired inverter, battery, and wiring faults.
- Supported **33kV substation erection and testing** including CT/PT testing, breaker commissioning, and protection relay settings.

Electrical Site Engineer

GreenLine Power Ltd. (GLPL) – Barmer, Rajasthan

Jan 2017 – Jan 2018

- Operated & maintained **33/11kV substations**, including VCBs, isolators, and relays.
- Performed **preventive maintenance testing** (BDV, IR, Earth Resistance) for critical assets.
- Coordinated with **construction and commissioning teams** during substation expansion projects.

EDUCATION & CERTIFICATIONS

- **B.Tech – Electrical Engineering** | Arya Institute of Engineering & Technology, Jaipur (2016)
- **Electrical Supervisor License (Class A)**
- **Project Management Professional (PMP)**
- **Advanced PV System Design – PV*SOL & PVsyst**

KEY PROJECTS

- **SCADA-Based Wind Park Maintenance** – Maintained 240+ MW with <1% unplanned downtime.
- **Hybrid PV System Deployment (Germany)** – Integrated UPS and storage for uninterrupted supply in commercial sites.
- **33kV Substation Commissioning** – Oversaw installation, testing, and energization.