

Sabir Hussain

Electrical Engineer | Solar & Wind Power Projects | Experience: 11 Years

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CAREER SUMMARY

Lead O&M Engineer with 11+ years of experience in utility-scale wind and solar power plants up to 100 MW. Specialized in O&M, SCADA operations, EPC coordination, grid compliance, HV/MV/LV substations up to 132kV and performance optimization. Proven record of safe plant operations, zero-incident HSE culture, and multi-site O&M leadership across Pakistan and West Africa.

TECHNICAL & PROFESSIONAL SKILLS

- Wind & Solar Power Plant Operations & Maintenance (O&M)
- HV/MV/LV Substations & Grid Stations (up to 132kV), AIS, Power Transformers
- SCADA Operations & Monitoring (Schneider, Goldwind, SGRE)
- WTG, Inverters & Electrical Balance of Plant (EBOP) Systems
- Preventive & Corrective Maintenance, Troubleshooting
- Testing & Commissioning Supervision and Energization Coordination
- EPC & OEM Coordination, Punch List Closure, Pre-COD Activities
- Resource Planning, Team Supervision & Shift Management
- Outage Management, Grid Coordination & Compliance
- Documentation, Reporting & Operational Compliance
- HSE Management, Risk Assessment, LOTO, Toolbox Talks & Safety Audits

WORK EXPERIENCE

Lead Engineer O&M

Jun 2024 – Present

Sinohydro Burkina Faso Limited

Project: Zina Solaire SA 26.6 MW, Burkina Faso, West Africa

- Coordinated EPC construction and transition activities, including PV modules, trackers, inverters, MV systems, cabling, and earthing.
- Supervised inspections of DC strings, LV/MV cable laying, terminations, control wiring, and panel installations to ensure compliance with drawings and OEM standards.
- Coordinated punch list closure with EPC, subcontractors, and OEM teams to achieve prompt handover.
- Supported testing and commissioning activities through supervision, documentation verification, and first-time energization coordination.
- Led O&M operations to ensure uninterrupted generation, grid compliance, and system availability.
- Supervised inverters, power stations, RMUs, switchgear, and auxiliary power systems.
- Analyzed PR, losses, and SCADA data to improve plant performance and operational efficiency.
- Implemented preventive and corrective maintenance programs, achieving high equipment availability.
- Enforced HSE standards, LOTO compliance, and maintained a zero-incident safety record.

Lead Engineer O&M

Jan 2022 – Jun 2024

HydroChina International Engineering Co., Ltd. – Pakistan

Projects: Liberty 1&2 Wind Power 50MW | Atlas Solar 100MW | DIN Wind Energy 50MW

- Led O&M of 132kV grid stations, ensuring high system availability, grid compliance, and safe operations.
- Supervised engineers, technicians, and subcontractors across multiple renewable sites.
- Planned and executed preventive and corrective maintenance for AIS, transformers, WTGs, PV modules, and auxiliary systems.
- Coordinated with EPCs and OEMs for punch list closure, technical clarifications, and pre-COD activities.
- Managed outages and emergency response in coordination with grid authorities.
- Supervised energization activities for WTGs, 33kV switchgear, and 132kV transformers.
- Monitored SCADA systems to analyze performance, faults, and availability trends.
- Ensured HSE compliance through toolbox talks, safety drills, and risk mitigation measures.
- Prepared monthly/annual performance reports, outage analysis, and maintenance reports for management.

Senior Operations Engineer

Jan 2020 – Dec 2021

HydroChina International Engineering Co., Ltd. – Pakistan

Projects: ACT-1 Wind Project 30MW | ACT-2 Wind Project 50MW

- Supervised electrical installation, testing, and commissioning activities in coordination with EPC and OEM teams.
- Supported first-time energization of transformers, MV/HV switchgear, and WTGs for ACT-2 Wind Project.
- Monitored SCADA-based operations, including grid tripping, shutdowns, and power curtailment as per SOPs.
- Conducted inspections and maintenance of HV/MV switchgear, protection relays, batteries, and EBOP systems.
- Analyzed SCADA alarms, events, and fault data to support performance optimization.
- Coordinated with grid authorities for load management, outages, and operational approvals.
- Participated in annual/semi-annual maintenance of WTGs and EBOP systems.
- Ensured strict HSE compliance, including LOTO implementation and toolbox talks.
- Managed workforce allocation, daily work schedules, and task distribution for site activities.

Electrical Engineer O&M

Jun 2017 – Dec 2019

HydroChina International Engineering Co., Ltd. – Pakistan

Project: ACT-1 Wind Project 30MW

- Operated and monitored wind plant performance through SCADA systems.
- Conducted routine inspections of HV/MV/LV equipment, GSUs, relays, batteries, and auxiliary systems.
- Collected and analyzed SCADA data, including events, alarms, and fault logs to improve availability.
- Coordinated with NPCC/RCC for grid outages, curtailment, and load management.
- Maintained accurate operational logs, permits, inspection checklists, monthly reports, and other plant documentation.

Junior Electrical Engineer

Sep 2012 – Sep 2015

Rehan Salim Electric Co., Pakistan

Project: Multistory Buildings, Karachi

- Supervised electrical installation works including MDBs, DBs, earthing, cable trays, and fire alarm systems.
- Assisted in testing, termination, and commissioning of electrical installations.
- Coordinated with consultants and contractors to ensure design compliance and prompt execution.
- Prepared daily and weekly progress reports and maintained site documentation.
- Ensured adherence to HSE procedures and safe execution of onsite electrical activities.

CERTIFICATION

- Schneider SCADA Operation
- Wind Turbine Climbing
- 33kV Switch Gear (DAQO)
- DC & UPS Training
- HSE Training
- Dahua CCTV Training

EDUCATIONAL QUALIFICATION

Bachelor of **Electrical Engineering** (2007-2011)

Quaid-e-Awam University of Engineering Science and Technology Nawab Shah, Pakistan

LANGUAGES

- English (Fluent)
- Urdu (Fluent)
- Pashto (Native)