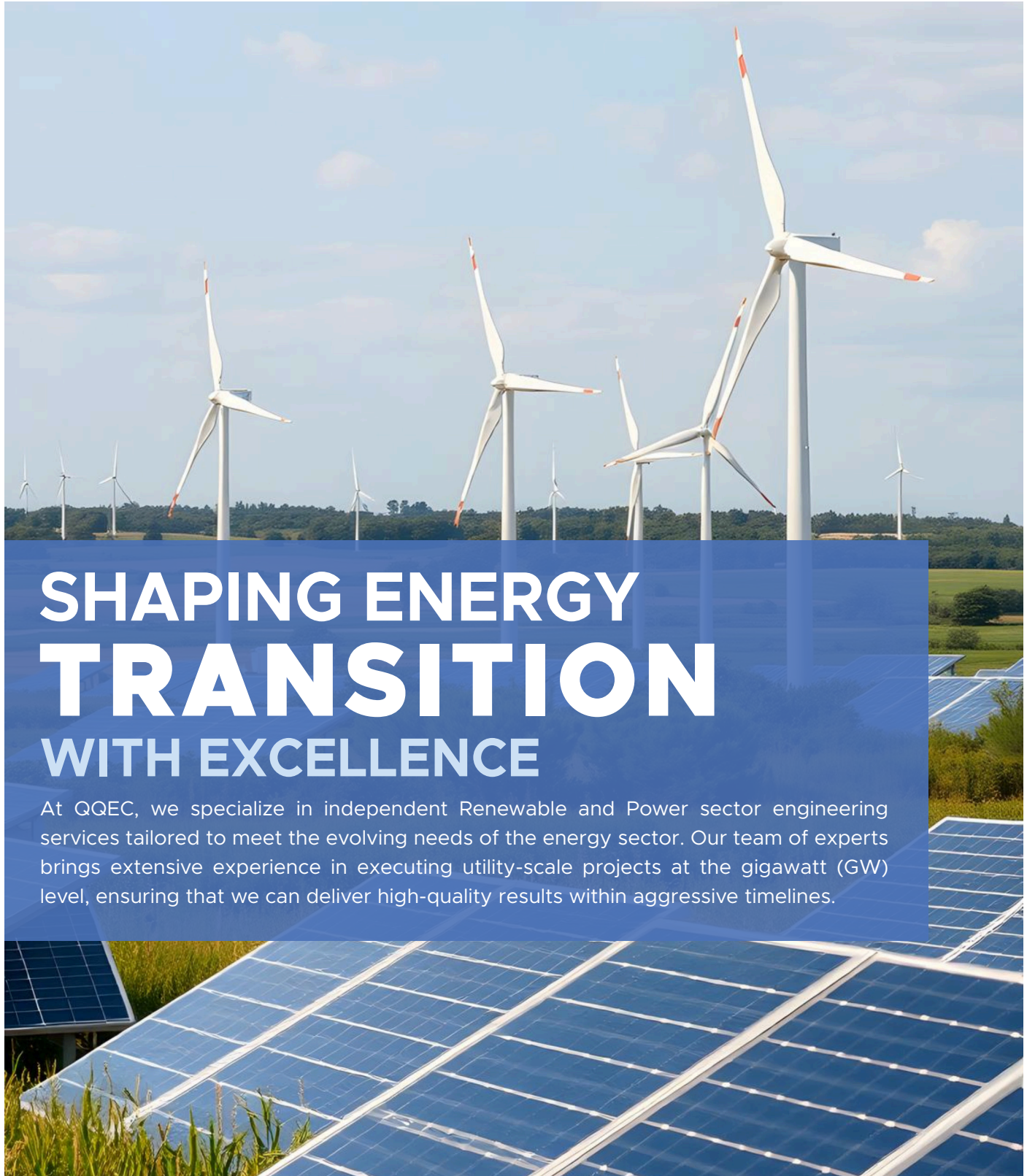


**Engineering &
Consulting**

#E&C Simplified



SHAPING ENERGY TRANSITION WITH EXCELLENCE

At QQEC, we specialize in independent Renewable and Power sector engineering services tailored to meet the evolving needs of the energy sector. Our team of experts brings extensive experience in executing utility-scale projects at the gigawatt (GW) level, ensuring that we can deliver high-quality results within aggressive timelines.



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About Us

At **QQ Engineering & Consulting (QPEC)**, we specialize in independent engineering and consulting solutions for utility scale renewable energy and power infrastructure projects. Our expertise spans Solar PV, Wind, BESS, Substations, Transmission Line Systems and Grid intergation studies.

With a strong focus on technical accuracy, quality assurance and execution excellence, **QPEC** supports developers, investors, lenders and EPC Contractor through every stage of the project lifecycle; from feasibility and engineering to construction monitoring and technical advisory.

Our multidisciplinary engineering approach combines industry expertise, advanced analytical capabilities, and practical project experience to deliver reliable, efficient and future-ready engineering solutions.

Engineering Excellence

QPEC combines technical expertise, structured engineering methodologies and practical industry experience to deliver reliable renewable energy consulting solutions. Our approach emphasizes quality, precision, compliance and long-term project performance across every stage of execution.

Core Strengths

- Independent Engineering & Technical Advisory.
- Utility-Scale Renewable Energy Expertise.
- Multi-Disciplinary Engineering Team.
- Quality & Compliance Driven Approach.

Building the Future

Innovation Meets Engineering

At **QPEC** we combine modern techniques and industry expertise to deliver high-performance engineering solutions that drive efficiency, reliability, and long-term value. From concept to completion, our team focuses on precision, quality and innovation to meet evolving industry demands.

Quality Compliance

ISO 9001:2015 Certification

- QPEC holds ISO 9001:2015 certificate.
- Scope** :“Engineering and Consultancy for Power Engineering Facilities”.
- Certificate Number**: 26MEQWG38.
- Issuance Date**: 17/06/2026 - 16/06/2029.



Our Mission

To build a world-class engineering and consulting organization driven by technical excellence, innovation, advanced tools, and a commitment to delivering reliable, future-focused solutions for clients and partners.



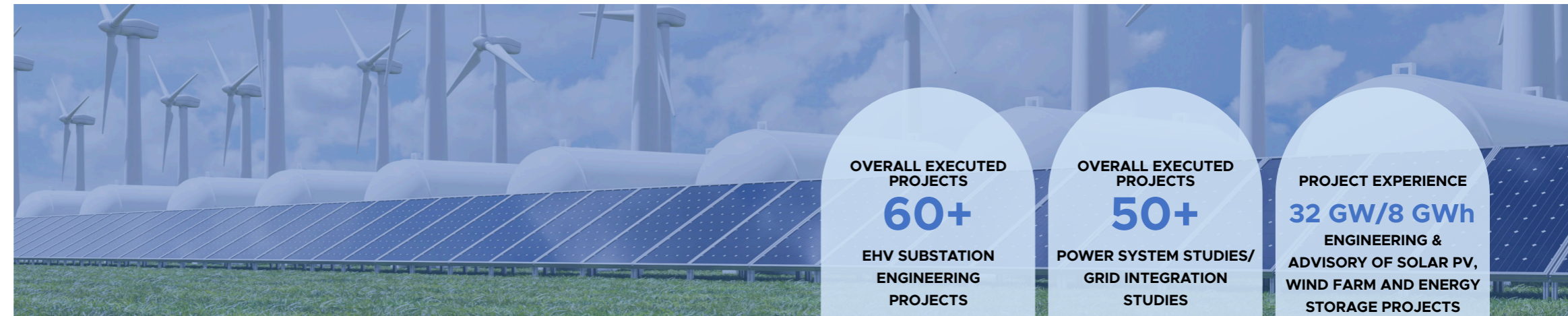
Our Vision

To simplify engineering and consulting through innovative, high-quality, and future-ready solutions that deliver reliability, efficiency, and long-term value across the evolving energy sector.



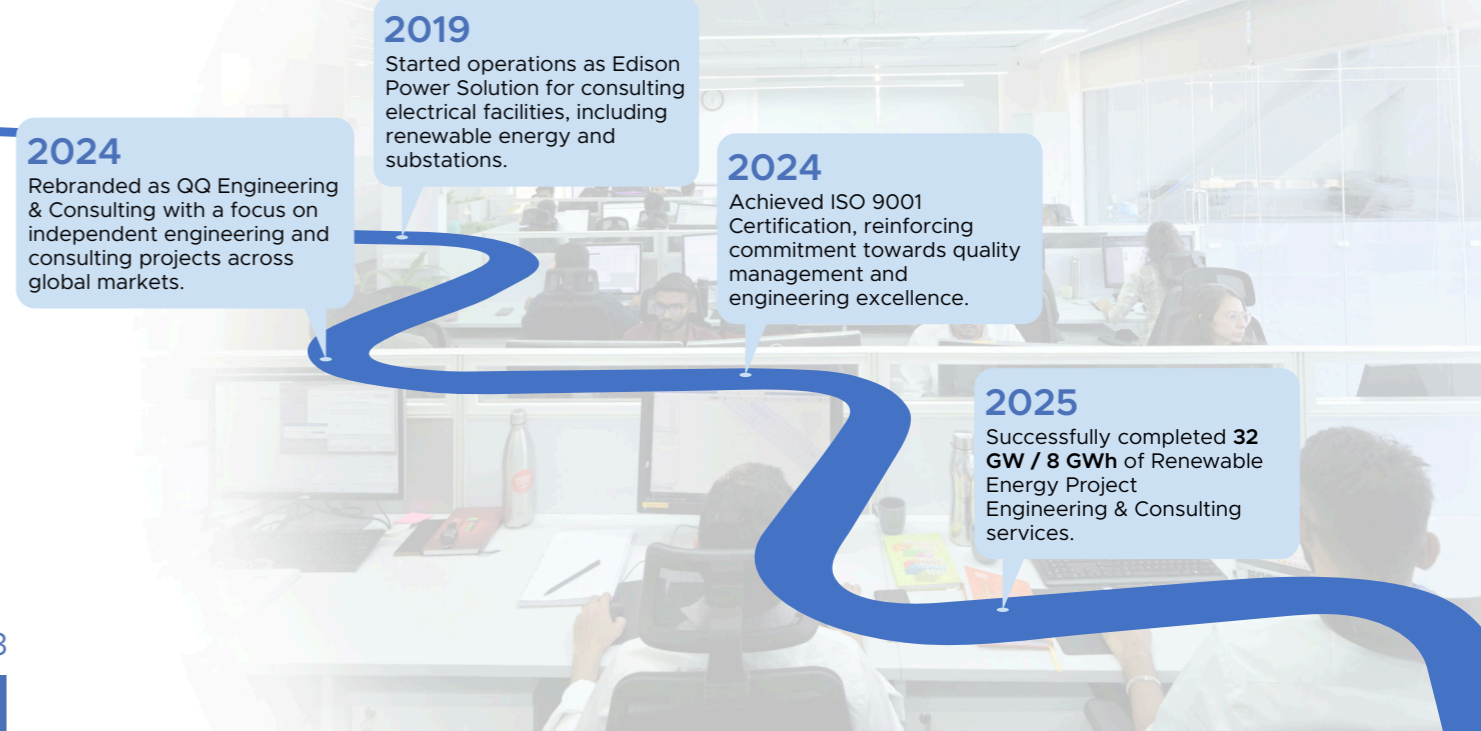
Core Value

Quality, precision, technical integrity, innovation, and continuous improvement are at the core of QPEC's engineering philosophy, ensuring the delivery of reliable solutions and fostering lasting client relationships.



Our History

Founded with a vision to deliver reliable and independent engineering solutions, QQ Engineering & Consulting (QPEC) has steadily evolved into a trusted renewable energy engineering and consulting partner. Through technical expertise, quality-focused execution, and continuous growth, QPEC has expanded its capabilities across utility-scale renewable energy projects and power infrastructure solutions.





Feasibility Study

A successful renewable energy project begins with a clear understanding of its technical feasibility, financial viability, and long-term sustainability. Before moving into execution, it is essential to identify project risks, validate resource potential, and establish a reliable development strategy. At QQ Engineering & Consulting (QQEC), we provide comprehensive feasibility studies for Solar, Wind, Hybrid, and Energy Storage projects, helping developers and investors make informed, data-driven decisions with greater confidence.



Lender's Technical Advisor

Renewable energy financing requires more than project projections – it demands independent technical validation, risk transparency, and confidence in long-term project performance. At QQ Engineering & Consulting (QQEC), our Lender's Technical Advisor (LTA) services support banks, NBFCs, DFIs, and financial institutions through independent technical assessment of Solar, Wind, Hybrid, and BESS projects across the entire project lifecycle.

Comprehensive Project Assessment

Our feasibility studies combine technical analysis, site evaluation, grid assessment and financial review to establish a strong foundation for project development. The evaluation process includes desktop assessment, physical site and substation visits, flood risk and contour analysis, land use assessment, transmission planning, capacity verification and cost estimation. Each assessment is carried out with a focus on minimizing uncertainty and improving long-term project viability.

Key Outcomes

- A well-executed feasibility study enables:
- Early identification of technical and commercial risks.
- Improved project planning and investment clarity.
- Regulatory and grid compliance evaluation.
- Optimized energy generation and infrastructure planning.
- Greater confidence for developers, investors, and stakeholders.

The final feasibility report serves as a technical and financial roadmap for successful project execution.

A Structured & Data-Driven Approach

QQEC follows a systematic methodology to assess project feasibility from technical, financial and regulatory perspectives.

- Site & Infrastructure Evaluation: Assessment of land conditions, accessibility, terrain suitability, grid connectivity and environmental considerations through GIS analysis and on-site inspections.
Power Evacuation & Capacity Analysis: Evaluation of transmission planning, grid integration, Power Flow and Contingency Analysis, Energy yield forecasting and technology suitability using advanced Simulation, Technology Selection, Resource Assessment, Energy Yield Analysis including Solar PV, Wind Farm, BESS and Engineering tools.
Financial & Risk Assessment: Detailed review of project costing, bill of quantities, LCOE analysis and investment considerations to support strategic planning and risk mitigation.

Why QQ Engineering & Consulting

- Expertise in utility-scale renewable energy projects.
Structured engineering and technical advisory approach.
Strong focus on project optimization and risk reduction.
Reliable assessment methodologies backed by technical analysis.
Comprehensive evaluation across the entire project planning stage.

Independent Technical Oversight

QQEC provides comprehensive technical advisory support covering feasibility validation, engineering review, energy yield assessment, EPC evaluation, grid compliance, construction monitoring and commissioning verification. The assessment process focuses on validating project bankability, execution capability, operational readiness and long-term performance expectations while ensuring alignment with regulatory and grid requirements.

Comprehensive Evaluation Approach

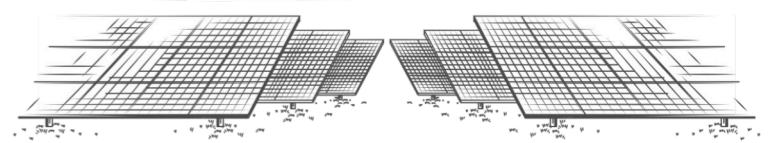
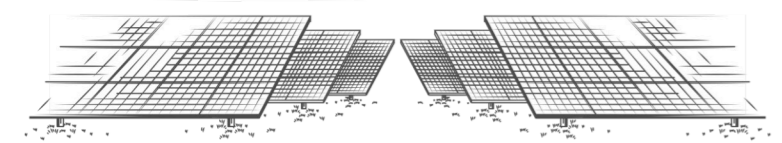
- Technical Due Diligence & Feasibility Review: Assessment of project assumptions, engineering design, DPR validation, technology selection and execution strategy to support financing confidence.
Energy Yield & Grid Assessment: Independent verification of generation forecasts, P50/P90 analysis, reactive power compliance, transmission readiness and power evacuation planning.
EPC & Construction Monitoring: Evaluation of EPC capability, Engineering document review, equipment quality, schedules, warranties, milestone progress and construction quality during project execution.
Commissioning & Operational Readiness: Final technical verification of commissioning activities, testing procedures, contractual compliance and long-term operational performance.

Key Areas of Assessment

- Project Design & Engineering Assumptions.
Grid Compliance & Power System Evaluation.
Energy Yield & Performance Forecasting.
EPC Contracts & Execution Capability.
BESS Sizing & Integration Assessment.
Construction Progress & Drawdown Verification.
Operational Readiness & Performance Compliance.

Why QQ Engineering & Consulting

- Independent advisory with no affiliation to developers or EPC contractors.
Strong expertise across Solar, Wind, Hybrid, and BESS projects.
Deep understanding of lender risk evaluation requirements.
Structured technical reporting aligned with financing and compliance needs.
Multi-disciplinary engineering capabilities across the project lifecycle.



Owner's Engineering

Developing a Solar PV and BESS project requires more than engineering execution — it demands strategic planning, technical validation, quality control, and continuous oversight throughout the project lifecycle.

At QQ Engineering & Consulting (QEC), our Owner's Engineering services provide independent technical guidance and project oversight to help developers achieve reliable, efficient, and commercially optimized project execution.

Power System Studies

The modern electrical grid is rapidly evolving with the increasing integration of renewable energy sources, aging infrastructure, and growing power demand from industrial facilities and advanced technologies.

At QQ Engineering & Consulting (QEC), we provide comprehensive Power System Studies to support generation, transmission, and distribution projects through advanced analysis, modelling, and system optimization.

Comprehensive Lifecycle Support

QEC supports project development through a structured engineering and execution approach covering feasibility studies, technology selection, procurement support, engineering review, construction monitoring, testing and operational optimization.

Our involvement helps minimize project risks, improve coordination between stakeholders, maintain quality standards and ensure compliance across all phases of execution.

Integrated Technical Expertise

QEC's multidisciplinary engineering team includes expertise in:

- Power System & Grid Compliance.
- Solar PV & BESS Electrical Engineering.
- Civil & Structural Engineering.
- EHV Substation & Transmission Systems.
- SCADA Power Plant Controller (PPC) Integration.

This integrated engineering approach supports reliable system performance, efficient energy dispatch, and long-term operational stability.

Engineering Oversight

Planning & Technical Evaluation

Assessment of project feasibility, site conditions, technology selection, LCOE analysis, and BESS integration strategy to establish a strong technical foundation.

Procurement & Contractor Management

Support for RFP preparation, bid evaluation, EPC contractor selection, and performance-based contract review to ensure quality and execution reliability.

Engineering Document Review

Review and compliance of Engineering documents including project energy yield report, SLD, Layout, Calculations, Vendor Documents, Civil & Structure Engineering Calculations and Drawing, Civil & Infrastructure Calculations and Drawing.

Performance Guarantee and Quality Assurance:

Witness PG test, construction oversight, schedule monitoring and on-site quality assurance to maintain project compliance and execution control

Why QQ Engineering & Consulting

- End-to-end technical oversight across project lifecycle.
- Strong focus on quality, compliance, and execution control.
- Expertise in Solar PV, BESS and grid integration projects.
- Proactive risk identification and engineering validation.
- Structured approach for optimized long-term project performance.

Comprehensive System Evaluation

Our studies help developers, utilities, and industries understand system behavior under varying operating conditions while ensuring compliance with grid requirements and long-term operational reliability.

Core Study Areas

Grid Integration Studies:

- Power Flow Study, Contingency Study, Short Circuit with future load growth factor.
- Grid Impact Studies to assess impact on grid substation and associated power infrastructure.
- Grid Compliance Studies.

Steady-State Studies

Analysis of voltage profile, equipment loading, transformer performance, short-circuit levels, reactive power requirements, contingency conditions and overall power flow behavior.

Dynamic & Stability Studies

Assessment of system response during disturbances, including transient stability, voltage and frequency ride-through capability, ramping analysis and RMS / EMT modelling.

Power Quality & Protection Studies

Evaluation of harmonics, flicker, DC injection, relay coordination, arc flash risks and protection schemes to improve system reliability and operational safety.

Insulation & Grid Reliability Studies

Assessment of insulation coordination, surge protection, transient overvoltages and system resilience under varying fault and switching conditions.

Engineering-Driven Optimization

Beyond conventional analysis, QEC focuses on system optimization through:

- Transformer impedance optimization.
- Reactive power equipment selection.
- Switchgear and cable sizing validation.
- Grounding and ampacity studies.
- Voltage drop and power loss analysis.
- Time series Power Flow Analysis for Renewable Energy Plant

Our engineering approach combines simulation expertise with practical grid understanding to support reliable and cost-effective infrastructure planning.

Why QQ Engineering & Consulting

- Strong expertise across generation, transmission and distribution systems.
- Advanced capability in dynamic modelling and simulation studies.
- Deep understanding of grid codes and compliance requirements.
- Focus on reliability, safety, optimization and long-term system performance.
- Engineering-led approach for technically robust power infrastructure.
- All Power System Study tools including PSCAD, DlgSILENT PowerFactory, PSS/E and ETAP.



Technical Due Diligence

Technical Due Diligence (TDD) plays a critical role in evaluating the technical integrity, operational performance, and overall viability of renewable energy projects and portfolios.

At QQ Engineering & Consulting (QQEC), we provide independent and objective technical assessments that help developers, investors, lenders, and stakeholders identify risks, validate project performance, and support informed decision-making throughout the project lifecycle.

Comprehensive Technical Assessment

Our Technical Due Diligence services focus on evaluating project design, operational condition, system performance, grid integration and compliance requirements to establish a clear understanding of project readiness and long-term reliability.

The assessment process includes project and portfolio evaluation, energy yield verification, quality inspection, operational review, safety assessment and risk analysis to support transparent and data-driven evaluation.

Why QQ Engineering & Consulting

- Independent and objective technical evaluation approach.
- Strong focus on performance validation and risk assessment.
- Expertise across renewable energy project evaluation and compliance review.
- Structured reporting for informed technical and investment decisions.
- Risk identification, mitigation plans and costing.
- Experienced team having experience of working with major IPP and investor in industry.

Core Areas of Evaluation

- Project & Portfolio Review**
Assessment of overall project configuration, technical documentation, operational condition and performance expectations.
- Energy Yield & Grid Compliance**
Evaluation of as-built energy generation performance, grid integration readiness and regulatory compliance requirements.
- Quality & Operational Assessment**
On-site quality audits and Operations & Maintenance (O&M) review to evaluate system condition, workmanship quality and operational effectiveness.
- Safety & Risk Analysis**
Verification of safety standards, identification of technical risks, and development of mitigation strategies to support reliable project operation.
- On Site Testing**
Flash Test, String Test, PV Module drone thermography, EL Test, Handheld thermography, Structure Test and Transmission Line Tests.

Detailed Reporting & Technical Insights

QQEC delivers structured Technical Due Diligence reports covering key findings, performance observations, compliance status, operational risks and technical recommendations.

The final assessment provides stakeholders with a clear understanding of project condition, technical reliability and long-term operational considerations.



Detailed Engineering

Detailed Engineering is a critical stage that transforms project concepts and technical requirements into accurate, execution-ready engineering deliverables.

At QQ Engineering & Consulting (QQEC), we provide structured and coordinated Detailed Engineering services to support efficient project execution, technical accuracy, procurement alignment, and construction readiness across renewable energy projects.

Engineering Development

QQEC works closely with project stakeholders to understand technical requirements, operational expectations, and execution priorities before developing refined engineering solutions aligned with project objectives.

The process includes design validation, scheduling coordination, procurement support, preparation of construction-ready documentation and continuous technical assistance during project execution.

Core Engineering Scope

- Technical Requirement Assessment**
Comprehensive review of project inputs, technical specifications and engineering requirements to establish a strong design foundation.
- Engineering Design & Coordination**
Development of refined engineering designs through seamless coordination between stakeholders, engineering disciplines and execution teams.
- Procurement & Construction Support**
Technical support during procurement activities along with preparation of Issue for Construction (IFC) drawings to ensure execution readiness.
- Site Engineering Assistance**
Continuous support for site technical queries and engineering clarifications during project implementation.

Execution-Focused Engineering

QQEC's Detailed Engineering methodology emphasizes:

- Delivery-focused scheduling and coordination.
- Design accuracy and technical consistency.
- Efficient stakeholder communication.
- Construction-ready engineering documentation.
- Timely engineering support during execution.

This structured approach helps minimize execution challenges, improve coordination efficiency and support smooth project delivery.

Why QQ Engineering & Consulting

- In house multidisciplinary team.
- In house substation and transmission line engineering up to 765 kV.
- Strong focus on execution-ready engineering solutions
- Integrated coordination across engineering and procurement activities
- Structured approach for accurate and efficient project delivery
- Technical expertise supporting design, documentation and site execution
- Commitment to quality, precision and engineering reliability
- In house all tools and software to perform Engineering
- Engineering experience across globe including complex terrains including hilly terrain, seashore and desert etc. region



Construction Monitoring

Effective construction monitoring is essential to ensure that project execution aligns with approved engineering designs, quality standards, safety requirements, and project timelines.

At QQ Engineering & Consulting (QPEC), we provide comprehensive Construction Monitoring services focused on maintaining quality control, execution transparency, and construction compliance throughout the project lifecycle.

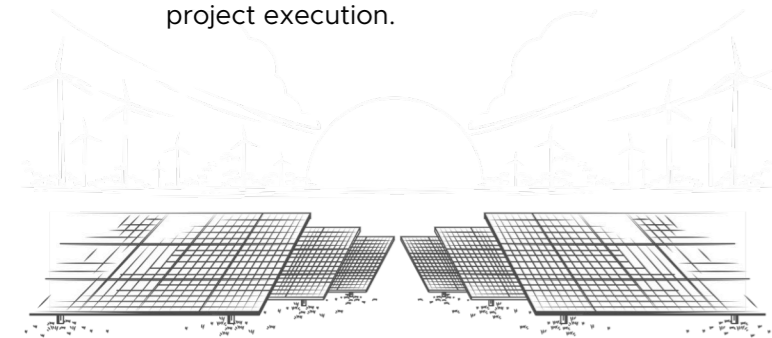
Execution Oversight

QPEC monitors construction activities through continuous site supervision, technical verification, quality inspections and progress tracking to ensure projects are executed in accordance with approved specifications and construction methodologies.

The monitoring process includes schedule management, workmanship evaluation, compliance verification, field testing supervision, commissioning support and documentation review to maintain consistency across all execution stages.

Why QPEC Engineering & Consulting

- Strong focus on quality, safety and execution control.
- Continuous on-site monitoring and technical supervision.
- Structured approach for compliance and construction transparency.
- Expertise in commissioning support and field quality assurance.
- Reliable monitoring processes supporting timely project execution.



Third Party Inspection

Third Party Inspection plays a vital role in ensuring that equipment, materials, and manufacturing processes comply with approved specifications, quality standards, and project requirements before delivery and installation.

At QPEC Engineering & Consulting (QPEC), we provide independent inspection and quality verification services focused on minimizing risks, maintaining compliance, and supporting reliable project execution across critical electrical equipment and systems.



Inspection & Quality Verification

QPEC performs detailed inspections of electrical equipment and manufacturing activities to verify compliance with approved drawings, Quality Assurance Plans (QAP), technical specifications and contractual requirements.

The inspection process includes stage inspections, Factory Acceptance Tests (FAT), quality verification, documentation review and dispatch clearance assessment to ensure equipment readiness before site delivery.

Core Inspection Scope

- Equipment & Manufacturing Inspection**
Inspection of electrical equipment and critical manufacturing stages to validate workmanship quality and compliance with approved engineering standards.
- Power Transformer Stage Inspection**
Monitoring of electrical equipment (e.g. PV Module, Inverter, BESS, Power Transformer) manufacturing activities at key production stages to ensure quality assurance and technical conformity.
- Factory Acceptance Testing (FAT)**
Witnessing and verification of FAT procedures to confirm equipment performance, functionality and specification compliance prior to dispatch.
- Quality Documentation & Dispatch Clearance**
Review of QAP documentation, approved drawings, inspection records and issuance of inspection reports and material dispatch clearance certificates.
- Structure Prototype (Proto) Test:**
Module Mounting Structure (MMS), Switchyard and Transmission Line Structure prototype test inspection.

Core Monitoring Scope

- Quality & Workmanship Control**
Assessment of on-site construction quality, workmanship standards and adherence to approved engineering practices.
- IFC & FQP Compliance**
Verification of execution activities against Issue for Construction (IFC) drawings and Field Quality Plan (FQP) requirements.
- Testing & Commissioning Support**
Supervision of field testing activities along with pre-commissioning and commissioning support to ensure operational readiness.
- Project Control & Safety Monitoring**
Monitoring of schedules, change orders, safety practices and construction reporting to maintain execution control and project transparency.

Structured Site Monitoring Approach

QPEC's construction monitoring methodology emphasizes:

- Delivery-focused execution tracking.
- Compliance with approved engineering documentation.
- Continuous quality assurance and inspection.
- Safety monitoring and risk prevention.
- Accurate documentation and reporting processes.

This structured approach helps improve construction efficiency, maintain technical compliance and support successful project delivery.

Proactive Quality & Risk Control

- QPEC's Third Party Inspection methodology focuses on:
- Independent quality verification and compliance assessment.
 - Early identification of manufacturing and technical risks.
 - Validation of approved drawings and QAP requirements.
 - Structured reporting and inspection transparency.
 - Reliable equipment readiness before project deployment.

This approach helps reduce execution risks, avoid rework, and improve overall project reliability.

Why QPEC Engineering & Consulting

- Independent and unbiased inspection approach.
- Strong focus on quality assurance and compliance verification.
- Expertise in electrical equipment and manufacturing inspections.
- Structured inspection reporting and technical documentation.
- Proactive risk identification supporting reliable project execution.

Engineering, Procurement & Construction Monitoring

Engineering, Procurement & Construction Monitoring (EPCM) is a structured project management approach that ensures effective coordination across engineering, procurement, and construction activities throughout the project lifecycle.

At QQ Engineering & Consulting (QQEC), we provide comprehensive EPCM services focused on technical oversight, execution control, procurement coordination, and construction monitoring to support efficient and reliable project delivery.

Integrated Project Execution Support

QQEC works closely with developers, contractors, suppliers and project stakeholders to establish a streamlined execution framework aligned with technical, commercial and operational objectives.

The EPCM process includes engineering coordination, procurement support, contract management, execution supervision and construction monitoring to ensure projects are delivered efficiently and in accordance with approved project requirements.

Execution-Focused Management

QQEC's EPCM methodology emphasizes:

- 🔄 Integrated coordination across project disciplines.
- 🔄 Structured engineering and procurement management.
- 🔄 Continuous construction monitoring and execution tracking.
- 🔄 Effective communication between stakeholders and contractors.
- 🔄 Quality assurance, compliance, and schedule control.

This coordinated approach helps minimize execution risks, improve project efficiency and support successful project completion.

Core EPCM Scope

🔄 Turnkey Project Management

Comprehensive coordination and management of project activities from engineering through construction and execution stages.

🔄 Detailed Engineering Support

Technical oversight and engineering expertise to support accurate design development and execution readiness.

🔄 Procurement Coordination

Streamlined procurement support covering vendor coordination, technical alignment and material management processes.

🔄 Contract & Construction Management

Administration of project contracts along with rigorous construction monitoring to ensure quality, compliance and schedule control.

Why QQ Engineering & Consulting

- 🔄 Integrated expertise across engineering, procurement and construction phases.
- 🔄 Strong focus on execution control and project coordination.
- 🔄 Structured management approach supporting timely project delivery.
- 🔄 Technical oversight ensuring quality, compliance and transparency.
- 🔄 Reliable project monitoring throughout the execution lifecycle.

Sector We Cover

Energy Storage System

QQ Engineering & Consulting (QQEC) provides independent engineering and consulting support for Battery Energy Storage System (BESS) projects, helping developers, IPPs and lenders establish technically optimized and commercially viable energy storage solutions.

Our expertise covers standalone and hybrid energy storage systems integrated with Solar PV and Wind projects, supporting reliable grid integration and long-term system performance.



QQEC's Scope in ESS

- 🔄 Technical & Commercial Feasibility Studies.
- 🔄 BESS Sizing & System Design Advisory.
- 🔄 Battery Technology & Lifecycle Evaluation.
- 🔄 Renewable Integration & Hybrid System Engineering.
- 🔄 Communication Architecture & Control Development.
- 🔄 FEED / Basic Engineering Packages.
- 🔄 Owner's Engineering & Procurement Support.
- 🔄 Detailed Engineering & SLD Development.
- 🔄 Technical Due Diligence & Risk Assessment.
- 🔄 Grid Integration & Power System Studies.

QQEC supports BESS projects through technical evaluation, electrical engineering, grid studies, and execution support to ensure safe, reliable and performance-driven energy storage infrastructure.



Distributed Energy Resource

QQ Engineering & Consulting (QQEC) provides engineering and consulting solutions for Distributed Energy Resource (DER) systems across on-grid, off-grid and microgrid applications.

Our expertise supports the integration of Solar PV, Wind, BESS and backup power systems into reliable and optimized energy networks designed to meet project-specific operational and commercial requirements.

QQEC's Scope in DER

- 🔄 DER Sizing for On-Grid, Off-Grid & Microgrid Systems.
- 🔄 Load Pattern & Demand Analysis.
- 🔄 Solar, Wind, BESS & Diesel Generator Integration.
- 🔄 Resource Assessment & Site Analysis.
- 🔄 Feasibility Studies & Energy Forecasting.
- 🔄 Detailed Project Report (DPR) Development.
- 🔄 Grid Integration & Scenario-Based Studies.
- 🔄 Basic Engineering & FEED Packages.
- 🔄 EPC Engineering Support.

QQEC supports DER projects through technical evaluation, system integration, and engineering development to deliver efficient, reliable and sustainable distributed energy solutions.



Solar PV Plant

At QQEC, we also have full Service Solar PV Plant engineering services from concept design through commissioning. Our experience ranges from gigawatt-scale projects under one roof, and our experience has proven that we can develop solar projects that are technically sound and commercially viable. If you're looking for some of the best solar power plant consulting firms in India, QQEC brings history, experience and assurance unmatched.



QQEC's Scope in Solar PV

- Feasibility studies and site suitability assessment.
- Grid compliance and substation evaluation.
- Energy yield analysis and DPR development.
- Hydrology, levelling, and grading studies.
- Module mounting structure engineering.
- AC and DC system engineering.
- Inverter, transformer and switchboard selection.
- Civil and infrastructure engineering.
- Owner's Engineering and EPC document review.
- Technical due diligence and project optimization.

QQEC supports solar projects through engineering design, electrical system development, civil infrastructure planning and execution advisory. Our expertise includes inverter station planning, EHV substations, MCR buildings, optimized layouts and technology selection based on project requirements and LCOE considerations.

- String Sizing Calculations
- Detail Project Report
- Technology Selection and LCOE analysis.
- Slope analysis and cutting and filling analysis.



Wind Power Plant

QQ Engineering & Consulting (QQEC) provides engineering and consulting support for Wind Power Projects, helping developers and stakeholders design, optimize and integrate reliable wind energy infrastructure.

Our expertise covers Balance of Plant (BoP) engineering, electrical infrastructure development, substation design, transmission systems and project execution support to ensure efficient and grid-compliant wind farm development.

QQEC's Scope in Wind Power

- Wind Balance of Plant (BoP) Engineering.
- Unit Substation Engineering.
- Internal 33 kV Transmission Line Engineering.
- Transmission Line Planning & Profiling.
- EHV Substation Engineering.
- Owner's Engineering & RFP Support.
- Detailed Engineering & Procurement Assistance.
- Wind Resource Assessment (WRA)
- Micrositing of Wind Turbine Generator.
- WTG Foundation Design Review and Support.

QQEC supports wind projects through turbine selection studies, substation design, transmission planning and grid integration engineering. Our team optimizes power evacuation systems, transformer sizing, busbar configurations and transmission infrastructure to support efficient power delivery and reduced system losses.



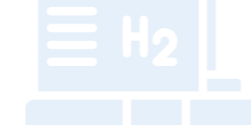
Green Hydrogen and Green Ammonia

QQ Engineering & Consulting (QQEC) provides engineering and consulting support for Green Hydrogen and Green Ammonia projects, helping developers and stakeholders establish technically reliable and renewable-integrated energy systems. Our expertise covers renewable integration, electrical engineering, power system analysis and balance of plant support to ensure efficient and compliant project development.

QQEC's Scope

- Renewable Energy Integration Advisory.
- Feasibility Studies & Renewable Plant Sizing.
- Solar, Wind & Energy Storage Engineering.
- Owner's Engineering for Renewable Facilities & Substations.
- Electrical Engineering for Hydrogen & Ammonia Balance of Plant.
- Basic Engineering & FEED Packages.
- Electrical Load Analysis & Equipment Sizing.
- SLD, Metering & Protection Design.
- 2D / 3D Electrical Modelling.
- Procurement Support for Electrical Equipment.
- Power System Studies & Grid Compliance Assessment.

QQEC supports Green Hydrogen and Green Ammonia facilities through electrical engineering, renewable power integration and system studies considering multiple operating scenarios. Our approach ensures technically optimized, grid-compliant and future-ready infrastructure for emerging clean energy applications.



Substation

QQ Engineering & Consulting (QQEC) provides comprehensive Substation Engineering solutions for Renewable Energy, Transmission and Distribution projects with experience across systems up to **765 kV**.

Our expertise spans AIS, Hybrid, and GIS substations, supporting projects through feasibility studies, detailed engineering, automation systems, procurement support and construction monitoring for reliable and efficient power infrastructure development.

QQEC's Scope in Substation Engineering

- Feasibility Studies & Interconnection Assessment.
- Substation Engineering up to 765 kV.
- AIS, Hybrid & GIS Substation Design.
- Owner's & Review Engineering.
- Proposal (Pre-Bid) Engineering.
- Detailed Engineering & EPCM Support.
- Metering & Protection SLD Development.
- Electrical Sizing & Engineering Calculations.
- Civil, Structural & Foundation Engineering.
- Substation Automation System Engineering.
- IFC Drawings & Engineering Documentation.



QQEC supports substation projects through power transformer sizing, reactive power assessment, load flow studies, protection systems, control room engineering and automation architecture development. Our multidisciplinary engineering capability ensures technically optimized, standards-compliant and execution-ready substation solutions across diverse project requirements and operating environments.

Transmission Line

QQ Engineering & Consulting (QPEC) provides engineering and consulting support for Transmission Line infrastructure, enabling efficient and reliable power evacuation for renewable energy and grid expansion projects.

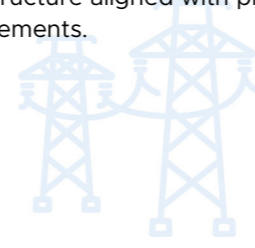
Our expertise covers feasibility assessment, interconnection studies, engineering design, and project support to help developers and utilities establish technically optimized and execution-ready transmission systems.



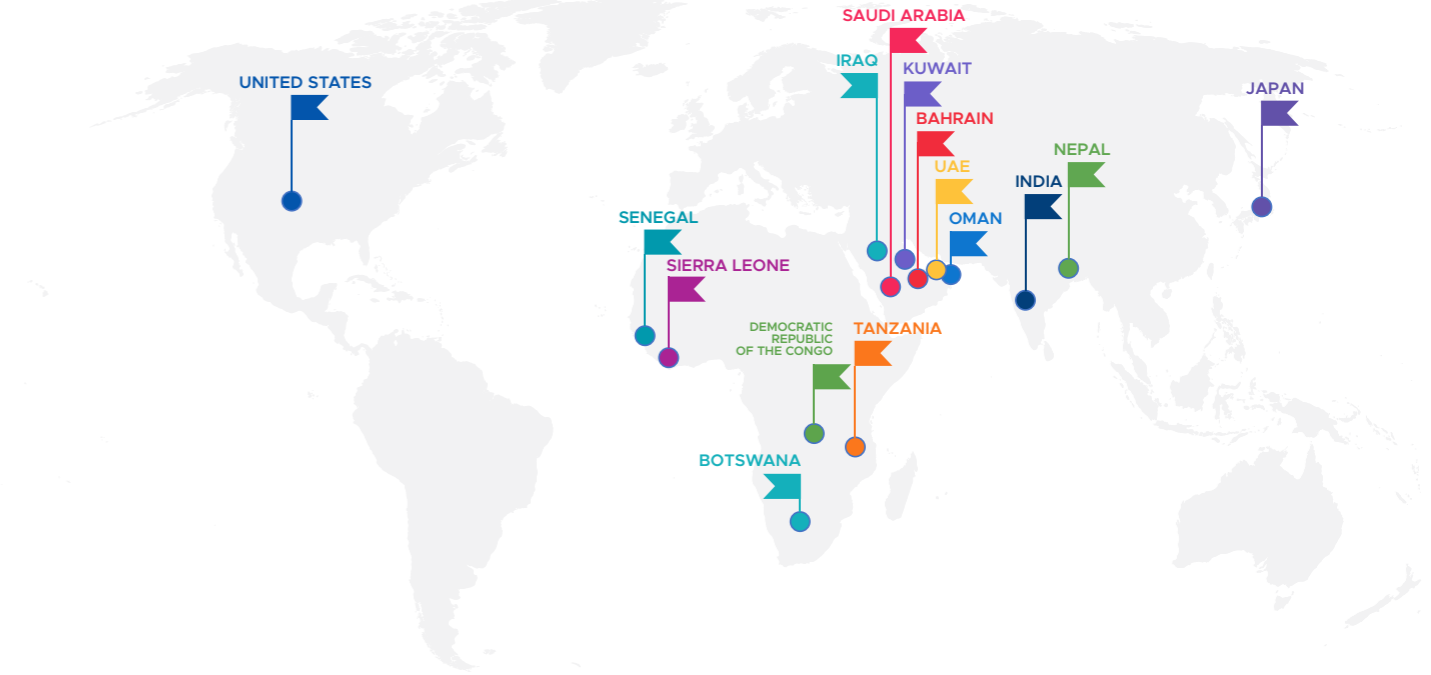
QPEC's Scope in Transmission Line

- Route Feasibility & Corridor Identification.
- Desktop Route Assessment & Alignment Studies.
- Conductor Sizing & Tower Requirement Assessment.
- Voltage Drop & Power Loss Evaluation.
- Budget Estimation & Route Survey Review.
- Interconnection & Load Flow Studies.
- Contingency & Steady-State Analysis.
- Owner's Engineering & RFP Preparation.
- EPC Bid Evaluation & Project Scheduling.
- Tower Structure & Foundation Engineering.
- Line Plan, Profile & Sag Template Development.
- Vendor Document & Engineering Review.

QPEC supports transmission projects through route optimization, electrical analysis, structural engineering and EPC support. Our multidisciplinary expertise ensures technically reliable, cost-effective and grid-compliant transmission infrastructure aligned with project and network requirements.



Geographies We Have Worked



Oil & Gas, Industrial Plant, Data Centre

QQ Engineering & Consulting (QPEC) provides engineering and consulting support for Oil & Gas facilities, Industrial Plants and Data Centres with a strong focus on electrical systems, interface coordination and reliable power infrastructure.

Our multidisciplinary engineering approach supports project development, electrical design, power system analysis, procurement and execution coordination to ensure safe, efficient, and dependable facility operations.

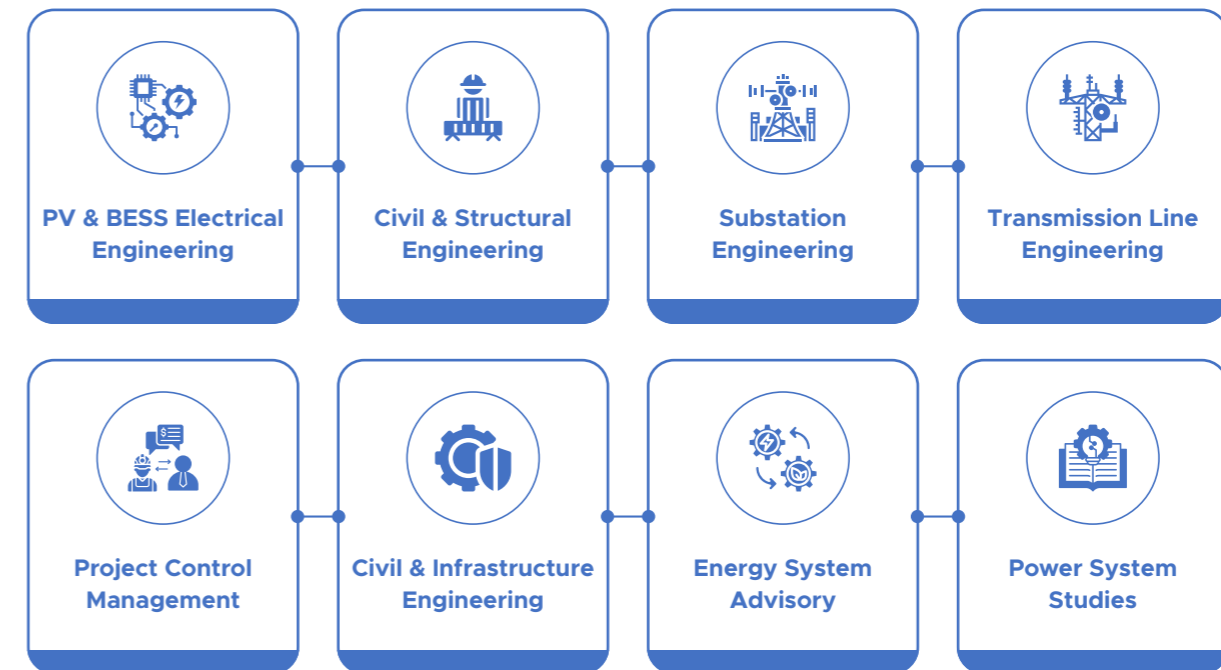
QPEC's Scope in Industrial & Process

- Basic & FEED Engineering for Electrical Systems.
- Load Analysis & Operating Philosophy Development.
- Single Line Diagram (SLD), Metering & Protection Design.
- Electrical Equipment Sizing & Substation Layout Engineering.
- RFP Preparation & EPC Bid Evaluation.
- Power System Studies & Multi-Scenario Analysis.
- SCADA Architecture & Electrical Integration Support.
- Procurement & Vendor Technical Review.
- 2D / 3D Layout Engineering Support.
- Interface Management Across Disciplines.

QPEC supports industrial and process facilities through load flow studies, short circuit analysis, harmonic studies, relay coordination, arc flash studies and procurement engineering. Our expertise ensures technically optimized, reliable and standards-compliant electrical infrastructure across complex industrial projects.

Integrated Engineering Expertise

QQ Engineering & Consulting (QPEC) brings multidisciplinary engineering capabilities under one roof, enabling seamless coordination and reliable project delivery across renewable energy and power infrastructure projects.



Engineering Excellence Across the Project Lifecycle

QQEC supports clients throughout the entire project lifecycle, delivering technical expertise, independent advisory, and engineering solutions from project inception to successful operation.

Project Lifecycle

- Feasibility & Assessment
- Technical Advisory
- Detailed Engineering
- Procurement Support
- Construction Monitoring
- Testing & Commissioning
- Operational Optimization



Supporting Every Stage with Confidence

- 🔍 Independent Engineering Expertise
- 🔍 Technical Excellence
- 🔍 Quality & Compliance
- 🔍 Risk Mitigation
- 🔍 Optimized Project Delivery
- 🔍 Long-Term Reliability



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Our Clients



ENGINEERING TRUST, DELIVERING EXCELLENCE



**Engineering &
Consulting**

#E&C Simplified

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