

UTILITIES ENGINEERING SOLUTIONS

Engineering Excellence.
Powering Reliable Utilities.

End-to-end engineering and drafting solutions for power generation, transmission, distribution and water infrastructure.



About | MOLDTEK



Moldtek Technologies Limited is a global engineering and technology solutions provider delivering precision-driven engineering services to industries worldwide. We partner with utilities, EPCs, contractors and consultants to support complex projects with accurate, coordinated and timely engineering deliverables.



Established
in **2001**



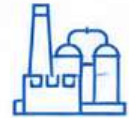
500+
Employees



Presence in
USA | UK | India



Global
Project
Experience



Utilities &
Plant Engineering
Expertise

The Utilities Challenge

Utilities projects are highly regulated, technically demanding and execution sensitive. Any engineering gap can lead to rework, safety risks, compliance issues and cost overruns.



Complex and aging
infrastructure modernization



Stringent codes, standards
and regulatory compliance



Coordination across
multiple disciplines
and vendors



Tight project schedules
and shutdown windows



High cost of rework
and inaccurate
documentation



Data handover gaps in
operations and
maintenance

Moldtek's utilities engineering solutions help **reduce risk**,
improve reliability and **deliver projects with confidence**.



OUR UTILITIES ENGINEERING SERVICES

Integrated engineering support
across the utility value chain

From feasibility to detailed engineering and
plant handover, we deliver accurate, coordinated
and construction-ready engineering deliverables.



Plant Engineering Solutions

End-to-end engineering
for power, water and
industrial utilities.



Instrumentation & Control Engineering

Intelligent I&C design
for reliable operations
and automation.



Drafting & Digital Engineering

High-quality 2D/3D
drafting and digital
solutions for project
execution.



Utility Infrastructure Engineering

Engineering support for
transmission, distribution
and water infrastructure.



Substation Engineering

Complete substation
engineering from
concept to
commissioning.



Project Support Services

Value-added services
that keep your
projects on track.

Moldtek's utilities engineering solutions help **reduce risk**,
improve reliability and **deliver projects with confidence**.



PLANT ENGINEERING SOLUTIONS

Engineering for Reliable and Efficient Utilities

We provide comprehensive plant engineering for power generation, water treatment and utility facilities with a focus on safety, efficiency and long-term reliability.

OUR CAPABILITIES

- Conceptual & Basic Engineering
- Detailed Engineering
- Process Engineering & Optimization
- Equipment Layout & Piping Design
- Stress Analysis & CAESAR Support
- Heat Balance & Mass Balance
- Technical Specifications & Datasheets
- 3D Modeling & Plant Integration



Reliability

Engineered systems that deliver consistent and dependable performance.



Efficiency

Optimized solutions that reduce losses and improve operational efficiency.



Constructability

Practical designs that simplify execution and minimize project risk.



Lifecycle Performance

Sustainable systems designed for long-term value and scalability.





INSTRUMENTATION & CONTROL ENGINEERING

Intelligence. Automation. Reliability.

We design advanced instrumentation and control systems that improve plant performance, ensure safety and enable seamless operations.

OUR CAPABILITIES

- Instrumentation Engineering
- Control System Architecture
- PLC / DCS / SCADA Engineering
- Loop Diagrams & Hook-up Drawings
- Cause & Effect Matrix
- I/O List, Cable Schedules & Datasheets
- Panel Layouts & GA Drawings
- Cybersecurity & System Integration



SAFETY

Engineered systems that prioritize safety and regulatory compliance.



VISIBILITY

Real-time data and insights for smarter decision making.



OPERATIONAL RELIABILITY

Robust, integrated solutions that ensure continuous and efficient operations.



DRAFTING & DIGITAL ENGINEERING

Accurate Documentation. Better Execution.

Our drafting and digital engineering services deliver precise drawings and intelligent models that reduce rework and support efficient execution.

OUR CAPABILITIES

-  P&ID, PFD, Process Flow Diagrams
-  Piping, Layout & Equipment Drawings
-  Electrical & Cable Routing Drawings
-  Structural & Civil Drawings
-  As-built & Redline Drawings
-  3D Modeling & Clash Coordination
-  Digital Twin & Point Cloud Integration
-  Document Management Solutions



Accuracy

Precise. Reliable.
Right the first time.



Coordination

Better collaboration.
Fewer clashes.



Digital Readiness

Smarter data.
Future-ready delivery.



UTILITY INFRASTRUCTURE ENGINEERING

Building the Backbone of Reliable Utilities

We support the design and engineering of critical utility infrastructure for transmission, distribution and water systems with a focus on safety, reliability and sustainability.

Our Capabilities

-  Transmission & Distribution Engineering
-  Overhead & Underground Line Design
-  Pole, Tower & Foundation Design
-  Water Supply & Distribution Systems
-  Pump Houses & Reservoirs
-  Roads, Drainage & Site Development
-  Hydraulic Analysis & Calculations
-  Environmental & Regulatory Support

SUBSTATION ENGINEERING

**Powering Connections.
Ensuring Reliability.**

We deliver end-to-end engineering for substations from concept to commissioning, ensuring safe and reliable power distribution.

OUR CAPABILITIES

- Substation Layout & Equipment Arrangement
- Electrical Single Line Diagrams
- Relay & Protection Schemes
- Cable Routing & Conduit Layouts
- Earthing & Lightning Protection
- Civil & Structural Design
- Bill of Materials & Quantity Take-off
- Testing, Commissioning & Handover Support



RELIABILITY



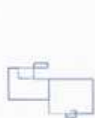
SAFETY



COMPLIANCE



BUILDABILITY



PROJECT SUPPORT SERVICES

Additional Value. Stronger Outcomes.

Our value-added services help you manage projects efficiently, reduce risk and achieve operational excellence.



OUR CAPABILITIES

- Engineering Support & Coordination
- Vendor Drawing Review & Mark-up
- Quantity Take-off & Estimation
- Scheduling Support
- Construction Support
- Commissioning & Startup Support
- Plant Operations Support
- As-built Documentation & Handover



TOOLS & STANDARDS

Technology. Standards. Quality.



Software & Tools

AutoCAD | Plant 3D | Revit
AVEVA PDMS | E3D
SmartPlant P&ID | SmartPlant 3D
CAESAR II | ETAP | SKM
MS Project | Navisworks
Bluebeam | Bentley OpenPlant
Power BI | SharePoint



Standards We Follow

ASME | ANSI | API
IEC | IEEE | ISA
NFPA | NEC
ISO 9001 | ISO 14001 | ISO 45001
AWWA
Local Utility Standards



Accuracy
You Can Trust



Compliance
You Can Count On



Quality
At Every Step



Safety
Always First

WHY CHOOSE MOLDTEK

We combine engineering excellence, advanced tools and a commitment to quality to deliver utilities solutions that are reliable, efficient and future-ready.



Domain Expertise

Deep utilities engineering knowledge across multiple domains.



Quality & Accuracy

Strict QA/QC processes for zero-defect deliverables.



On-time Delivery

Efficient planning and execution to meet project deadlines.



Scalable Teams

Flexible engagement models and scalable engineering capacity.



Partnership Approach

We work as an extension of your engineering team.



Technology-led Execution

Modern tools and digital workflows that improve visibility and efficiency.

Let's power a better tomorrow together.

Partner with Moldtek for reliable, efficient and future-ready utilities engineering solutions.