

CAPABILITIES STATEMENT

Expert Engineering Solutions.

— FEATURED · INFRASTRUCTURE



Engineering excellence across the value chain.

Integrity · Professionalism · Partnership

Who We Are

endX is a multidisciplinary engineering and design consultancy delivering integrated solutions across the Oil & Gas, Water sectors and other infrastructure — from concept through detailed design, with a relentless focus on safety, compliance, and constructibility.



Client-Focused

Innovative, partnership-driven solutions for infrastructure projects.



Multidisciplinary

Engineering, 3D modelling, project management, training & development.



Proven Portfolio

Successful engagements spanning multiple industry sectors.



We design for safety, compliance, and constructibility — engineering excellence is non-negotiable.

OUR DESIGN PHILOSOPHY

Our Core Capabilities

Seven integrated service lines covering the complete project lifecycle — from feasibility and concept through to construction support and institutional development.



01

Project Management

End-to-end planning, scheduling & execution control.



02

Engineering Design

Multidisciplinary Concept, FEED & detail design services.



03

3D Modeling

Integrated 3D coordination & visualization.



04

Rail / Bridges

Transport infrastructure design & review.



05

Construction Management

On-site supervision & technical assurance.



06

Training & Development

Institutional capacity building programs.



07

Procurement & Tender

Tender documentation, BOQ & evaluation support.

Technical Capabilities

Integrated, multidisciplinary engineering for Oil & Gas and Water sector projects — delivering safe, compliant, and constructible solutions from concept through detailed design.



Process & Mechanical

PFDs, P&IDs, equipment sizing, static & rotating equipment, utilities



Electrical

LV/MV systems, load calculations, lighting, earthing & lightning protection



Instrumentation & Control

Control philosophies, instruments, loop diagrams, PLC/DCS



Civil & Structural

Site development, foundations, RC & steel structures, pipe racks



Piping & Pipeline

Plant piping, routing, stress, isometrics, hydraulics & crossings



3D Modeling

Advanced 3D models for clear project visualization and marketing

CODES & STANDARDS

API · ASME · AWWA · ANSI HI · ISA · ISO · IEC · NFPA

DESIGN SOFTWARE

HYSYS · AutoCAD · Revit · ETAP · CAESAR II · Navisworks · CADWorx · Inventor · Civil 3D · Tekla · Advance Steel

Industry Experience

Strong industrial pedigree across the Oil & Gas value chain.

We deliver design engineering for upstream production facilities, gas processing plants, transmission pipelines, and downstream installations — alongside water infrastructure for new builds and brownfield modifications.

- Piping networks, pipelines, pump and compressor systems
- Pressure vessels, storage tanks, and utility systems
- Fire & gas safety systems in hazardous area classifications
- High-pressure, high-temperature, safety-critical environments


Deliverables developed per API · ASME · ISO · IEC · NFPA · client standards.



CAPABILITY ACROSS THE VALUE CHAIN

Operational Capacity

A multidisciplinary team — process, mechanical, civil/structural, electrical, piping, pipeline, and I&C specialists — capable of running multiple medium-to-large concurrent projects on schedule and on quality.

01	PILLAR	02	PILLAR	03	PILLAR	04	PILLAR
	Lifecycle Coverage		Digital Execution		QA/QC Discipline		Flexible Resourcing
Concept and FEED through detailed engineering, IFC deliverables, and construction support.		Integrated CAD, 3D modelling, analysis, and coordination platforms for accuracy and efficiency.		Established procedures, multidisciplinary design reviews, and compliance checks.		Rapid mobilization to meet accelerated schedules and EPC requirements.	

Quality, Health, Safety & Environment

QHSE principles are embedded throughout the design lifecycle — supporting safe, compliant, and sustainable project delivery across Oil & Gas and Water sectors.

Q



Quality Assurance

Robust QA/QC framework with structured procedures, multidisciplinary design reviews, and independent verification ensuring technical integrity.

H



Health

Health considerations addressed proactively at the design stage through comprehensive risk assessments and constructability reviews.

S



Safety

Active support for HAZID and HAZOP studies. Compliance with applicable codes, standards, and regulatory requirements.

E



Environment

Compliant, efficient design solutions aligned with regulatory obligations, industry best practices, and client requirements.

Level of Services





endX delivers full-lifecycle engineering across upstream Oil & Gas domains — from concept and FEED through detail design, procurement support, construction supervision, and commissioning.

DELIVERED ACROSS THE FULL PROJECT LIFECYCLE

CONCEPT / FEED	DETAIL DESIGN	PROCUREMENT	CONSTRUCTION SUPV.	COMMISSIONING
<p>01 FULL LIFECYCLE Wellhead</p> <p><i>Production wellhead systems, X-mas trees, choke manifolds and tie-in to flow lines.</i></p> <ul style="list-style-type: none"> Wellhead piping & layout design Materials, corrosion & integrity input I&C, ESD interlocks & SCADA interface <p>TEAM Process · Piping · Mech · E&I · Civil/Structure · Drafting</p>				
<p>02 FULL LIFECYCLE Gas Processing Facilities</p> <p><i>EWT and EPF gas plants — separation, dehydration, sweetening and compression.</i></p> <ul style="list-style-type: none"> Process design (HYSYS), heat & mass balance PFDs, P&IDs, hydraulic & flare network HAZID / HAZOP, SIL & equipment sizing <p>TEAM Process · Piping · Mech · E&I · Civil/Structure · Drafting</p>				
<p>03 FULL LIFECYCLE Pipelines</p> <p><i>Onshore cross-country trunk pipelines for water, oil and gas service.</i></p> <ul style="list-style-type: none"> Route selection & alignment sheets Hydraulics, surge & wall-thickness design CAESAR II stress, CP, coatings & crossings <p>TEAM Pipeline/Piping · Process · Mech · E&I · Civil · Drafting</p>				
<p>04 FULL LIFECYCLE Flow Lines</p> <p><i>In-field gathering and trunk flow lines from wellheads to processing plant.</i></p> <ul style="list-style-type: none"> Flow assurance, line sizing & layout Tie-ins, tee-offs & isolation valve stations Pigging, leak detection & buoyancy design <p>TEAM Process · Piping · Mech · E&I · Civil/Structure · Drafting</p>				
<p>05 FULL LIFECYCLE Storage Facilities</p> <p><i>Atmospheric and pressurised storage tanks, surge vessels and breakout systems.</i></p> <ul style="list-style-type: none"> Tank sizing, basis of design & containment Foundations, layout, piping & pumps API/ASME compliance & vendor data review <p>TEAM Process · Piping · Mech · Drafting</p>				
<p>06 INTEGRATED SERVICES Other Eng & Support</p> <p><i>Project management, controls, drafting, document control and HR backbone.</i></p> <ul style="list-style-type: none"> Proposals, contracts & EPC bid evaluation Project controls (Primavera P6, MS Project) QA/QC, IMS auditing & document control <p>TEAM Projects · Planning · Drafting · HR & DC</p>				

Featured Projects

Representative project experience across Oil & Gas and Water infrastructure — concept design, FEED, detail engineering, safety studies, and construction supervision.

 <p>PROJECT 01</p>	<p>WATER</p> <h2>Bore Field & Water Pipeline</h2> <p><i>2 to 25+ Wells · 80 km Pipeline</i></p> <hr/> <p>Concept & detail design, procurement support, construction supervision, risk workshops & safety studies.</p>	 <p>PROJECT 02</p>	<p>GAS PROCESSING</p> <h2>Gas Processing Facility</h2> <p><i>50 MMSCFD · 1,050 BPD · 60 MT LPG</i></p> <hr/> <p>Concept design, FEED, tender design services, detail design review, and construction supervision.</p>
 <p>PROJECT 03</p>	<p>OIL TERMINAL</p> <h2>Oil Storage Terminal</h2> <p><i>240,000 m³ Storage Capacity</i></p> <hr/> <p>Basic engineering, topographic survey, soil investigations, FEED, tender documents & cost estimation.</p>	 <p>PROJECT 04</p>	<p>PIPELINE</p> <h2>Multi-Fuel Pipeline</h2> <p><i>26" Diameter · 299 km Length</i></p> <hr/> <p>FEED, safety studies (HAZID, HAZOP, SIL, QRA), CAPEX/OPEX estimation.</p>

Why endX?

Six reasons clients trust us to deliver complex engineering with precision and confidence.



01

Cost-Effective Design

Value-driven engineering, optimized CAPEX, and early cost certainty through robust design.



02

Proven Capability

Integrated in-house expertise for facilities with strict regulatory and operational requirements.



03

HSE-by-Design

Risk assessments, constructability reviews, and full code & standards compliance.



04

QA/QC Discipline

Structured procedures and design reviews ensuring accurate, constructible deliverables.



05

Digitally Enabled

3D modelling and coordinated workflows to minimize clashes and improve constructability.



06

Client-Focused

Flexible execution aligned with EPC, PMC, and owner needs across the project lifecycle.

OUR CORE VALUES

*More than statements —
they shape every engagement.*

01 INTEGRITY

Honest engineering. Transparent decisions. No shortcuts.

02 PROFESSIONALISM

Disciplined process. Rigorous review. Polished delivery.

03 PARTNERSHIP

Aligned with client outcomes through every project phase.

GET IN TOUCH

Connect with us for project inquiries and engineering support.



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EXPERT ENGINEERING SOLUTIONS

End-to-End Excellence