



COMPANY OVERVIEW



DELIVERING QUALITY SOLUTIONS

DESIGN AND ENGINEERING

Civil, structural, mechanical, process, electrical, instrumentation, controls, project management

ASSESSMENTS

Feasibility studies, cost estimating, engineering reviews, sizing and rating of equipment, debottlenecking, vibration studies, seismic analysis, dock inspections

MAINTENANCE & CAPITAL PROJECTS

Scaling our services to the needs of a site or project, multi-year maintenance plans

PROCUREMENT SERVICES

Soliciting bids for and acquiring equipment and subcontractor services

CONSTRUCTION SUPPORT

Construction bidding support, oversight, assurance of specification adherence, subcontractor oversight, safety reviews

REGULATORY COMPLIANCE

Permitting and permitting support, knowledge of codes, regulations, and industry standards

NORWEST ENGINEERING specializes in the design of heavy industry facilities and their systems that enhance operational efficiency. Across a wide variety of industries, our team of experienced professionals collaborates with clients to deliver innovative, practical engineering solutions tailored to facility needs, streamlining processes, and reducing costs. We put boots on the ground from the top down, ensuring that our expertise can optimize your operations and drive success in your facility.

We've spent 50 years building strong client partnerships.

Here's a snapshot of the last five:

87

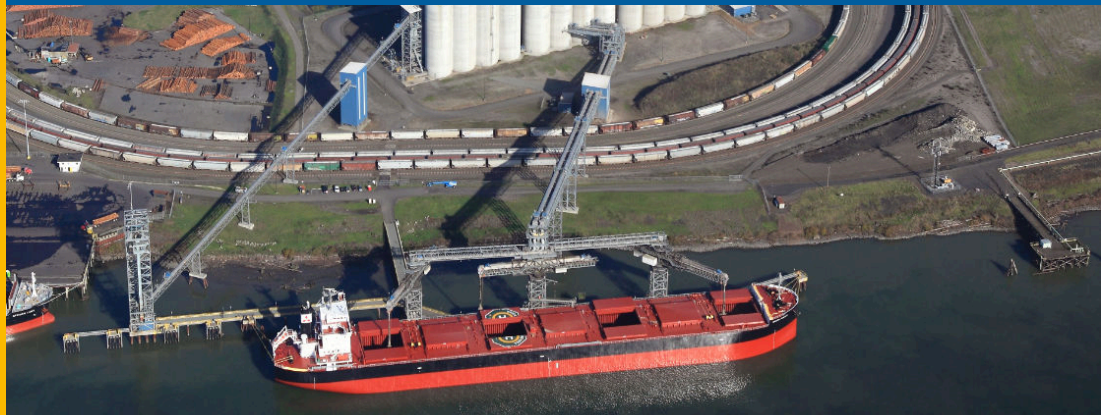
Clients

>530

Individual Projects

31

Different States



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OVERVIEW

Norwest Engineering specializes in designing and optimizing mechanical and process systems for industrial facilities. From full facility layouts and process piping to pump stations, metering systems, and vapor control, we develop efficient, high-performance solutions tailored to your operational needs. Our expertise spans system debottlenecking, fire protection engineering, pressure vessel design, and pipeline transportation—ensuring safe, reliable, and compliant systems. Whether you need 3D modeling, P&ID development, or specialized equipment design, Norwest delivers innovative, data-driven solutions to enhance performance and efficiency.

SERVICES

- Greenfield & Brownfield facility design
- Facility optimization & layout
- Marine, truck, and rail loading & offloading systems
- Blending systems design & plant layout
- System debottlenecking
- P&ID & PFD creation and as-builting
- Metering systems
- Equipment design & specification
- Pump stations & pipeline tie-ins
- Vapor control systems
- Pipe stress analysis
- Fire protection engineering
- System process optimization
- Full 3D modeling, orthographic, & detailed design packages
- Pressure vessel design & re-rates
- Process piping design (ASME B31.3)
- Pipeline crossings at highways & railroads
- Pipeline transportation systems for liquids and slurries (ASME B31.4)
- Material handling systems: conveyors, transfer points, and storage silos, dust control systems





OVERVIEW

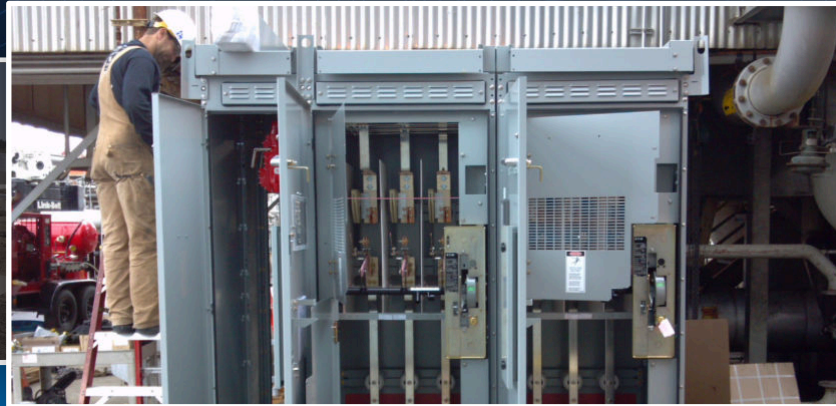
Norwest Engineering delivers expert civil and structural engineering services tailored to the unique demands of heavy industry. From site development and foundation design to complex structural steel and in-water infrastructure, our team provides safe, high-quality solutions for every stage of your project. We specialize in designing resilient structures, optimizing layouts for efficiency, and ensuring regulatory compliance through seamless permitting support. Whether you need seismic retrofits, blast-resistant designs, or detailed 3D modeling, Norwest has the expertise to ensure your project is successful.

SERVICES

- Site development & drainage
- Containment design
- Deep & shallow foundation design
- Railroad design & layout
- Structural steel design
- Pipe bridges & pipe supports
- Existing berth assessments & retrofits
- New berth design
- In-water structure analysis and design
- Fall protection & fall arrest engineering
- Retaining wall design
- Building & bridge design
- Seismic analysis & retrofits
- Permitting support & expediting services
- In-water permitting
- MOTEMS requirements
- Blast-resistant design
- Load ratings (marine structures and bridges)
- Full 3D modeling & detailed design packages
- Shoreline repair & protection
- Roadway design & traffic layout



▶ **ELECTRICAL & CONTROLS**



OVERVIEW

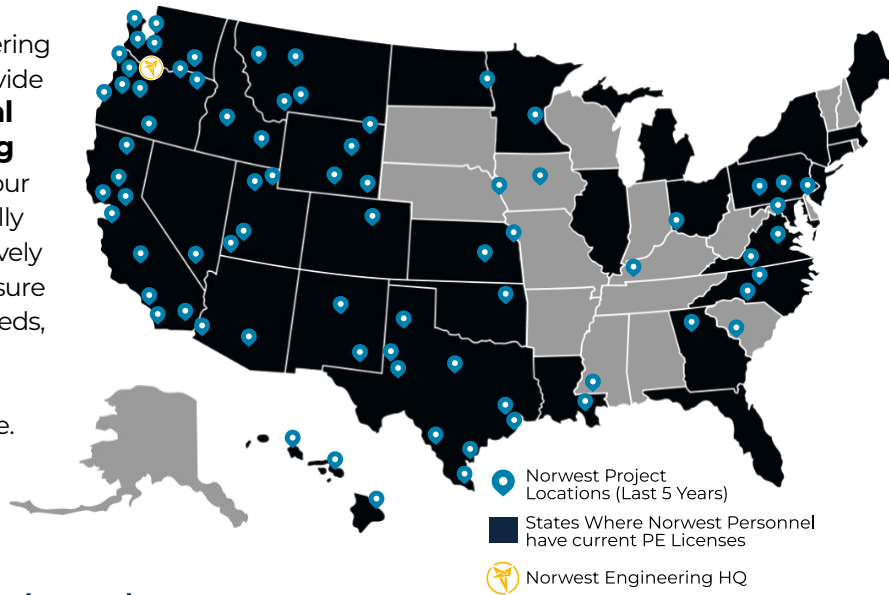
Norwest Engineering delivers tailored electrical and controls engineering solutions to power and automate industrial facilities with precision and reliability. Our expertise includes power distribution design, system studies, and grounding to ensure safe, efficient operations. We specialize in controls engineering, PLC/DCS programming, and instrumentation design, seamlessly integrating automation for enhanced performance. Norwest provides comprehensive, data-driven solutions that optimize efficiency, safety, and compliance from lighting and classification plans to construction support and procurement assistance.

SERVICES

- Power system studies including Arc Flash, OCPD Coordination, & Load Flow Analysis
- Power distribution equipment & systems specification & design
- Area classification plans & details
- Facility & equipment grounding
- Lighting studies & systems
- Full 3D modeling, orthographic, & detailed design packages
- Controls engineering & design
- Utility coordination
- PLC, panel layout, and wiring schematics
- Instrumentation loop diagrams & wiring schematics
- Motor, valve, ESD, VFD, & other control system schematics
- On-site construction support
- Procurement assistance

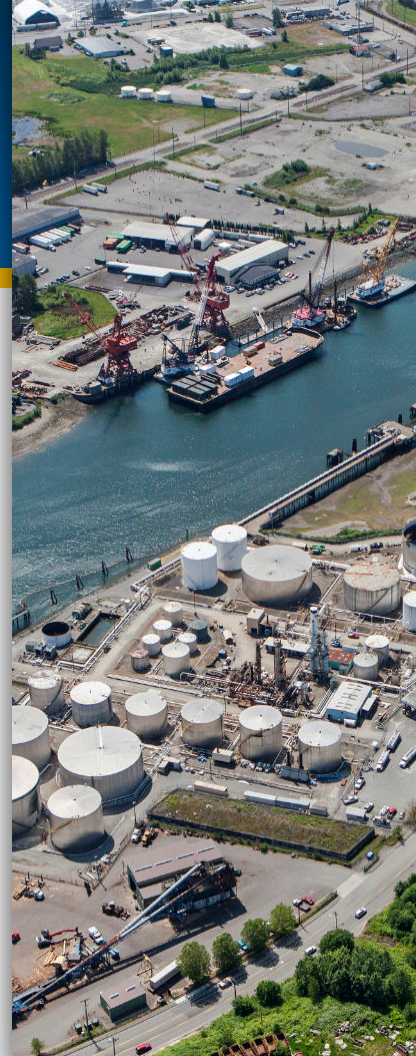
NORWEST ENGINEERING WORKS NATIONWIDE

Norwest Engineering is licensed to provide **Professional Engineering** in 32 states, and our reach is continually growing. We actively expand our licensure to meet client needs, ensuring we can support projects wherever they are.



We can work anywhere.

Norwest engineers can quickly gain licensure via reciprocity in your state.



CLIENT TESTIMONIALS

When our clients succeed, we succeed. Hear what they have to say.

"A great consulting company delivers what it promises. Norwest is responsive, does great work, and always delivers. I worked on the consultant side and I know how tricky it can be to keep great teams together. Norwest is just a great team."

*-John Koenig, P.E.
Vice President – Project Execution, Sentinel Midstream*

"Norwest takes the time to understand how we operate and how we execute our projects. They try to provide a consistent team between projects, so the team can carry over lessons-learned and be more efficient. I have worked with Norwest on projects from Washington State to Kansas. They listen to our needs and bring practical solutions to every issue so we can get projects done quickly and on budget. Our projects vary in size, and Norwest provides hands-on Project Managers who are also engineers and understand all aspects of the project."

*-Randy Hall
Director of Technical Services, HF Sinclair Midstream*

