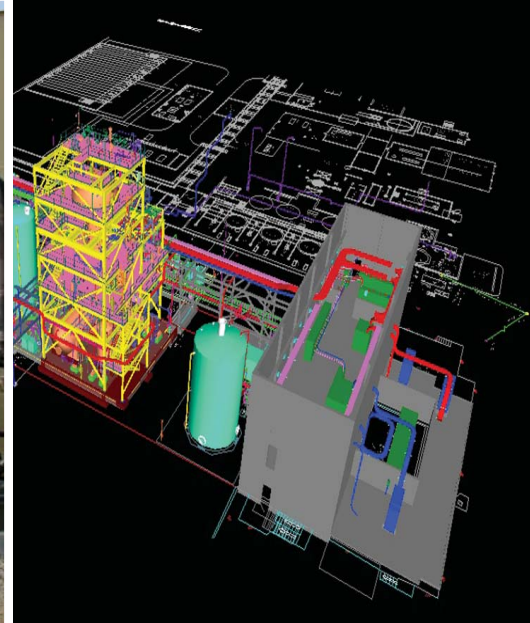
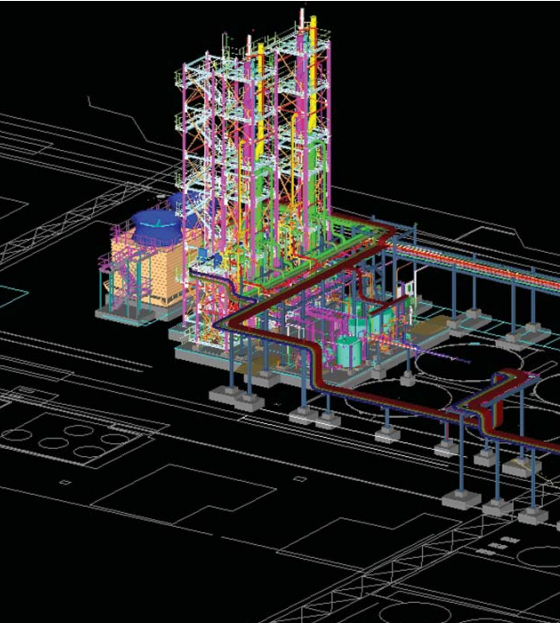




ENGINEERING

Engineering better oil and gas facilities



With unconventional oil extraction methods creating a renaissance in U.S. oil and gas markets, energy companies are challenged with maintaining, refurbishing and expanding production in their flowlines, terminals, gas processing facilities and upstream facilities.

Engineering these improvements is no small challenge. It requires processes for extracting the crude oil and refining it in ways that produce as much finished product as possible, as quickly as possible. It means finding solutions that minimize costs while also complying with strict and ever-changing environmental regulations.

Brinderson understands the design challenges up and down the oil and gas value chain. Our decades of experience enable us to provide engineering solutions that enable energy companies to improve the efficiency, effectiveness and safety of their operations, while positioning their businesses for long-term success.

BRINDERSON[®]
an AEGION[®] company

ENGINEERING

Brinderson Engineers Specialize in Energy Projects

At Brinderson, our engineers work almost exclusively on petrochemical projects. Brinderson staff of more than 2,500 includes engineering and program management professionals experienced in upstream terminals and pipelines, oil and gas production, gas processing, oil refining and chemical production. Our portfolio includes both large and small projects representing every phase of upstream and downstream operations.

Brinderson employs the talented and experienced professionals needed to optimize the amount of engineering required for these projects. As a value-driven company, we have developed a unique, construction-focused approach that reduces the number of necessary drawings and builds project constructability, operability and maintainability into the initial design.



Comprehensive Engineering Services

Our comprehensive engineering services include process, civil, structural, mechanical, piping, electrical and instrumentation. Our multidisciplinary staff is experienced in designing both capital and maintenance projects, as well as overall portfolio management. We offer additional value-added services as well, including:

- Process, technical and economic feasibility studies
- Capital cost estimating
- Front-end engineering design (FEED)
- 3D CAD engineering and design with laser scanning
- Engineering support for construction, maintenance and turnarounds
- Constructability and pre-construction planning
- Owners' engineer services
- Permitting support and coordination services

A Focus on Quality and Safety

Brinderson engineers rely on proven processes and best practices to deliver engineering excellence on every project we undertake. Whether designing an upgrade to a waste gas treatment system or a grassroots clean fuel refinery process unit, we have the full range of in-house capabilities to deliver designs that meet the highest quality and safety standards.

Our engineers employ ISO 9000 compliant procedures, including those for:

- Document and record control
- Supplier evaluation and monitoring
- Purchasing
- Monitoring and measuring products and processes
- Data analysis
- Competence, awareness and training
- Internal quality audits
- Client satisfaction

Turnkey Capabilities

In addition to engineering services, Brinderson has the seasoned construction professionals and project control systems needed to provide turnkey design and construction services. Our experience includes both new construction and turnaround projects, as well as planned shutdown maintenance and replacement activities. We can subcontract portions of an assignment as client needs or special circumstances dictate.

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