Kentz has extensive international experience in front-end engineering design, detailed design, procurement, construction, construction management, pre-commissioning, commissioning and start-ups across a variety of utility and offsite requirements in the oil, gas and petrochemical industry.

Whether working directly for the facility owner or as a subcontractor to a larger Engineering, Procurement and Construction (EPC) contractor, Kentz offers a multi-disciplined, fully integrated service spanning a wide range of petrochemical and oil and gas facilities. Our combination of global and local knowledge, expertise and experience have afforded us a reputation of delivering quality utility and offsite facilities to clients.

**Our services include:**

- Front-End Engineering and Design (FEED) and detailed design for small to medium-sized utility and offsite plants
- Full multi-disciplined EPC for small to medium-sized utility and offsite plants
- Construction management support services to the international project management companies on large to mega projects
- Direct construction for utility and offsite plants
- Integration of utility and offsite systems as well as pre-commissioning, commissioning and start-up supervision and execution
- Maintenance and operations support for facility owners

With a dedicated multi-disciplined engineering and design team in excess of 400 personnel, Kentz can provide the necessary expertise to deliver turnkey utilities and offsite facilities from beginning to end.

Our engineering and design services cover all disciplines including process, civil, architectural, structural, mechanical, piping, electrical, instrumentation, control systems, HVAC and telecommunications.

**Flexible and solution driven**

Kentz has a strong track record of executing projects across the world, often in difficult and challenging environments, which has created a culture of operational flexibility and problem solving. Kentz understands the concept of changing priorities and goals throughout the project life cycle and is well structured to deal with these.

Our integrated approach is successful because we have an established network of in-house engineering, procurement and fabrication resources. With locations worldwide, we have people who understand the political and regulatory issues of the communities within which we work and who can quickly find solutions. Our international procurement offices identify qualified suppliers, and inspect their products and materials to ensure prompt delivery of products to the jobsite.

Leaders in the execution on specialist EPC projects and services worldwide
The utilities and offsite facilities scope would typically include the following:

Utility Systems/Supplies:
Complete compressor systems including nitrogen generation, instrument and plant air generation, boiler systems, water and water treatment facilities, utility supplies for steam, water, air, gases and feedstock, cooling systems and pumping stations.

Electrical Systems:
Complete design, installation and testing of outdoor and indoor substations and switchgear, motor control centres, power distribution, circuit breaker and layouts, control and protective panels and controllers, power back-ups including UPS systems, cathodic protection, power transformers, high voltage transmission systems, street lighting and the complete design and construction of all associated civil works.

Control/Instrumentation Systems:
Total integrated solutions including Distributed Control System (DCS), Emergency Shutdown (ESD), Programmable Logic Controller (PLC), Supervisory Control and Data Acquisition (SCADA), all field instrumentation, custody transfer metering stations, analytical systems and analyser houses, batching solutions, tank gauging, calibration, loop checking, function checking and commissioning, complete control room design and construction.

Telecommunications Systems:
Private Automatic Branch Exchange (PABX), digital trunked radio, data network, field telephones, marine radios, microwave transmission, WAN/LAN and backbone, fibre optics and copper cable transmission, master clock, meteorological systems, antenna systems and towers including complete civil works.

Safety and Security Systems:
Fire and gas detection and fire suppression systems, safety integrity level and Hazard and Operability Study (HAZOP) analysis, ESD systems, fixed and portable pedestrian and vehicular access control, traffic management systems, PA and GA, CCTV, perimeter security fencing, intrusion prevention and alarm systems.

Product Storage and Distribution:
Storage tanks for all gases and liquids including hazardous chemicals, complete tank farm installations, pumping, piping and product distribution, road tanker and jetty loading.

Site Development:
Geographical and topographical surveys, soil improvements, all civil works including buildings and blast-proof control rooms, roads and jetty works.
Turnkey Port Facilities
(Loading Berth and Storage)
As part of our Specialist EPC business unit, Kentz provides port and tank farm solutions, ranging from loading berth expansions and storage capacity increase through to complete turnkey solutions for new offsite facilities. We focus these services within the oil, gas and petrochemical industries.
Port facilities include all disciplines, from civil works and storage tanks through to tanker berthing aid and mooring line monitoring systems. We also offer complete utility support services for the port and tank farms.

A Complete One-Stop Solution
Kentz specialises in building storage tank farms and systems that store petroleum, petrochemicals and specialty hazardous chemical products including cryogenic applications as well as vapour recovery systems.
Kentz delivers solutions that encompass complete design-build services for all components of storage systems including integration with existing port and tank farm operating systems. These systems are provided on an EPC basis.
Kentz specialises in the integration of the tank farms whilst working within operating facilities, both for port and production units. We provide single-point responsibility for both greenfield projects and expansions of any size, as well as a full range of services that includes feasibility studies and conceptual design.
Examples of work executed throughout the world

RasGas EPC Plant Upgrade, Qatar
Detailed engineering, procurement, fabrication, installation, pre-commissioning, commissioning and testing for the civil, mechanical, piping, electrical, instrumentation and loss prevention scope associated with ongoing unit 87 utilities plant upgrades and modifications at Ras Laffan.

Shaybah GCU, Saudi Arabia
Detailed design and engineering, equipment selection, procurement, logistics, installation, pre-commissioning, commissioning and testing of the mechanical, civil, electrical and instrumentation scope for the Shaybah Gas Compression Upgrade (GCU) Project.

Shell Pearl GTL Waste Water Treatment Plant, Qatar
EPC scope for a modular waste water treatment plant for 35,000-man construction camp. Process design, detailed engineering, procurement, shipping, construction, testing and commissioning of the mechanical, piping, civil, electrical and instrumentation scopes.

Sipchem Projects, Saudi Arabia
Existing and new plants, EPC and commissioning services, GACIC BDO facility – project management and control (PMC), construction management support (CMS), E&I construction, commissioning, operational BDO and methanol plant, Jubail Acetyls Complex pipelines, port storage and ship-loading facilities, acetals polishing unit and truck-loading facility.

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