



SERVICES DESIGN TECHNOLOGY International



Oil and Gas

The background of the slide is a photograph of an oil field at sunset. A large, bright orange flare is visible on the left side, with a tall black pipe extending from the ground to its base. The sun is a large, glowing yellow circle in the lower right quadrant of the sky. The horizon is a dark silhouette of oil rigs and land.

# Our oil and gas services

At SDT international we understand the technical needs for the oil and gas industry. We provide multidisciplinary services to a variety of operating and contracting companies in the energy market.

To best serve our Oil & Gas clients, we have assembled a specialized global leadership team to offer direct experience in site evaluation and remediation, permit and planning, compliance and auditing, infrastructure engineering and project management.

Our experienced professional and technical services teams help our clients to maximize their operations by providing a various range of solutions within the following sectors:

- Engineering services
- Environment services
- Building/Housing camps
- Transportation
- Project and construction management services



# Engineering services

## Civil

- Civil and road design
- Haul-road design
- Bulk earthworks
- Storage, dams and ponds
- Water management, supply and reticulation
- Sewerage, wastewater, drainage
- Workshops and site buildings
- Fuel facilities

## Structures

- Transport structures, tunnels, bridges
- Heavy industrial structures
- Liquid retaining structures
- Workshops and site buildings
- Accommodation camps and housing

## Mechanical

- Pipelines/Separators design
- Heating, ventilation and air-conditioning (HVAC)
- Fire suppression
- General mechanical design
- Fluid distribution

## Power

- Stand-alone temporary generation
- Thermal generation
- Renewable generation
- Transmission and distribution design
- Load flow studies
- Substation design

## Electrical, instrumentation and controls

- High-voltage transmission and switchyards
- Low-voltage transmission and reticulation
- Design services, such as schematics, terminations and layouts
- Process and instrumentation design and selection
- Control system design, including PLC, telemetry and DCS
- Earthing and lightning protection
- Lighting
- Security
- Fire detection and alarm

## Simulation software

- Project visualisation
- AutoCAD
- 3D max
- Revit

## Process design

- Water gathering system
- Water treatment and waste management facilities
- Gas and water pipelines





# Environment services



- Approvals and permits
- Occupational hygiene
- Water quality and management
- Hydrogeology and groundwater
- Environmental impact assessment
- Environmental planning
- Environmental management
- Environmental site assessment
- Geographic information systems (GIS)
- Sustainability assessment





# Building/Housing camps



- MEP (mechanical, electrical and plumbing) designs
- Office fit out
- Master planning
- Architectural design
- Rain gutter systems
- Telecommunication
- Fire alarm systems
- Lighting systems







# Transportation

The SDT Transportation design section provides engineering consultancy services in the field of roads, highways and bridge designs, subdivision development, drainage, in addition to transportation and infrastructure related services on airport and marina development projects.

SDT's transport structures services include:

- Transport strategic advice and master planning
- Feasibility studies and concept design
- Tender design and detailed design
- Bridge structures designs
- Tunnel structures
- Road furniture and lighting systems







## Project and construction management services

### Project controls

- Financial control
- System management and integration
- Cost estimating
- Scheduling

### Project and construction management

- Project management
- Construction management
- Program management





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## About SDT

SDT international was established in 1991 as an engineering consulting company that provides comprehensive range of oil and gas services in the Structural, Mechanical, Electrical, Environmental and Infrastructure design.

For the past 22 years, we have been a pioneering force in the planning, design and implementation of development projects in the Middle East and UK.

With five offices in five countries, we employ high caliber specialized engineers capable to apply innovative approaches to design and deliver practical and cost effective solutions.

**UK . Lebanon . KSA . Qatar . Dubai**

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