



## The Penspen Group Profile

PENSPEN™

### An Introduction to Penspen Manpower Services



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The Penspen Group has provided engineering and management services to the oil and gas industry worldwide for over 55 years. Penspen has no ownership ties with operators, contractors or suppliers and therefore can offer a truly independent, best practice service.

Penspen has undertaken over 8000 projects in almost every country in the world and has tackled almost every conceivable challenge from the economic evaluation of pipelines in developing nations and complex integrated design and construct contracts, to limit-state design of pipelines in deep water.

Penspen has an international network of offices and offers unequalled onshore pipeline and facilities design, integrity management and rehabilitation, training, instrumentation and control, pipeline operation and maintenance through GreyStar, and submarine pipelines and structures.

Specialist services are provided individually or can be integrated for large complex world-class onshore and offshore projects. Typical projects include transmission pipelines, metering, pressure control, compressor and pump stations, civil and military aviation fuelling systems, instrumentation and SCADA systems, offshore pipelines, risers and manifolds and integrity and operability studies.

In addition to engineering and project management, Penspen provides extensive training services, which cover every aspect of pipeline design, operation, maintenance and emergency response.

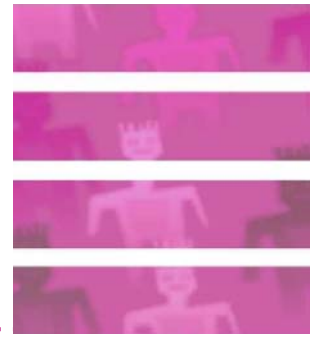
We place great emphasis on and take pride in the personal care and quality of the services we provide to our clients, partners, suppliers and subcontractors.

We look forward to being of service to you.

David Stanley

Chief Executive Officer





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**Penspen's Manpower Services Division has over fifty years experience in providing project and construction management and specialist engineering services on a project team or individual basis.**

**Backed by a substantial database of contract staff resources and access to engineering expertise in-house, Penspen's Manpower Services Division works with a wide range of specialisations from construction management and commissioning to operations and maintenance utilising staff from inspection and technician level up to senior engineering management.**

### **Manpower Services**

- Provision of specialist engineers at all phases of projects including design, procurement, construction and commissioning
- Secondment of specialists in a variety of other fields including health and safety, quality assurance, information technology and environmental engineering
- Provision of operations and maintenance teams on oil, gas and products pipelines and associated facilities

Projects undertaken by Penspen's Manpower Services division include:

- **Libya:** Provision of discipline engineers to oil and gas operating companies
- **Turkey:** Provision of engineers to an operator engaged on the construction of a major cross country pipeline
- **Saudi Arabia:** Provision of engineers to an operator involved in the long term development of a large concession
- **Greece:** Operations and maintenance supervision of a gas fiscal metering station
- **Philippines:** Provision of assistance in pipeline routing during the development of a major gas field
- **Kazakhstan:** Provision of engineers to assist on rehabilitation, operations and maintenance of gas systems
- **UK:** Quality monitoring service during construction of both onshore and offshore pipelines
- **Vietnam:** Provision of discipline engineers on a major pipeline project
- **India:** Provision of a construction and commissioning management team on an onshore pipeline development

## **MANPOWER SERVICES**

Manpower Services for  
Project and Construction  
Management and Specialist  
Engineering Services



**PENSPEN**  
**PROFILE**  
Better by Design

*One of Penspen's key activities is providing efficient, high quality and cost effective management of engineering projects for the handling and transportation of oil, gas, other hydrocarbons and water. This primarily involves pipeline transportation systems from initial feasibility studies, front end engineering, detailed design, construction, commissioning and hand-over to our clients. Penspen offers unbiased, objective support to its clients by remaining the leading, independent (non-aligned), specialist pipeline engineering company in Europe, providing services worldwide.*

## Total Project Services

Project Management	Financial Management
Economic Studies	Market Surveys
Feasibility Studies	Conceptual Design
Front End Engineering Design	Specifications, Standards & Codes
Detailed Design	Engineering
Procurement	Inspection and Expediting
Construction Management	Construction Supervision
Pre-Commissioning	Commissioning
Facilities Management	Training
Safety Studies	Technical & Quality Audits
SCADA & Telecommunications	Environmental/Social Evaluations
Value Management	Risk Assessments
Pipeline Integrity	Geographic Information Systems



## PENSPEN PROFILE

Better by Design

*Penspen believe that the services offered by the Company to its clients are second to none. Penspen's engineers and economists have acquired an outstanding reputation throughout the international oil and gas industry, giving the group a Client Portfolio of which the Company is rightfully proud. Penspen's Client Base includes most of the major oil companies in the world, together with many of the national oil and gas operating companies, governmental and military authorities, international aid and lending agencies, financial institutions and merchant banks. Combined with a range of energy industry clients, Penspen can offer considerable experience of both clients and countries. Projects carried out for these clients include the processing, storage, transportation and handling of a wide range of hydrocarbon fluids from crude oil, fuel oils, refined products and LPGs through to natural gas, NGLs, ethane and ethylene.*

## Client Base

- Abu Dhabi Company for Onshore Oil Operations (ADCO) • Abu Dhabi National Oil Corporation • Allseas • Amec Group Ltd • Asian Development Bank • Bangkok Aviation Fuel Services • BG International • Bord Gáis Eireann • BOTAS, Turkey • Brega Petroleum • British Airports Authority (BAA) • British Petroleum • Centrica • China Petroleum Engineering and Construction Group (CPECC) • Comisión Federal de Electricidad, Mexico • Commission of the European Communities • Defence Estates • EDF Energy • Egdon Resources • Emirates General Petroleum Corporation • E.ON UK • Fuel Pipeline Transportation Ltd (FPT) • Gas Trans Boliviano, Bolivia • Indeck (UK) Limited • Intergen (UK) Ltd • Kenya Pipeline Company • Khafji Joint Operations • Kuwait Aviation Fuelling Co • Lawrence • Ministry of Defence • Nacap Asia Pacific Sdn Bhd • National Grid • National Power Limited • Nigerian Gas Company • Nigerian National Petroleum Corporation • Ofgem • Petrobras • Petronas • Petroleum Authority of Thailand • PT Perusahaan Gas Negara • PT Transportasi Gas Indonesia • Public Gas Corporation of Greece (DEPA) SA • Qatar General Petroleum Company • Sasol Petroleum International • Scottish Power PLC • Scottish Hydroelectric plc • Shell PDC of Nigeria • Star Energy • Stolt Offshore • Syrian Petroleum Company • Thai Aviation Refuelling Company • Water & Electricity Department (Abu Dhabi) • World Bank • Zuetina Oil Company



## Project Experience

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<b>CLIENT</b>	<b>DETAILS</b>
<b>China Petroleum Engineering &amp; Construction (Group) Corp.</b>	Provision of senior Contracts Engineering, Cost Control, QA/QC and Pipeline Delivery management staff to the Abu Dhabi Crude Oil Pipeline Project (ADCOP) in the United Arab Emirates.
<b>Mellitah Oil &amp; Gas</b>	Provision of Contracts Engineering and Inspection personnel to various onshore oil and gas projects in Libya.
<b>Petro-Vietnam</b>	Provision of engineering staff to the O Mon Gas Pipeline Development Project in Can Tho and Ho Chi Minh City, Vietnam
<b>Cairn India</b>	Provision of Construction Managers, Commissioning Managers, Pipeline Superintendents and QA/QC personnel totally approximately 20 in number on the Barmer – Salaya Pipeline Project in Rajasthan and Gujarat in India.
<b>British Gas Tunisia</b>	Provision of Quality Assurance Engineers associated with the Hasdrubal Project.
<b>DAR / Penspen</b>	<p>Provision of Project Services Management Team to support in house PMC contract being undertaken on behalf of Khafji Joint Operations. Personnel totalling in excess of one hundred personnel including Project Manager, Senior Project Engineers, Project Engineers and discipline engineers including, Electrical, Civil, Mechanical, Contracts, Process, Quality, Project Controls, etc.</p> <p>Personnel based in project offices in Khafji-Saudi Arabia, Perth-Australia, Cairo- Egypt, Milan- Italy, Richmond- UK, and India.</p>
<b>South Rub Al Khali Company Limited</b>	Provision of Civil Engineer and Well Test Engineer to SRAK during exploration, appraisal, development and production of non associated gas condensate and Natural Gas Liquids in South Rub Al Khali Basin, Saudi Arabia.
<b>Repsol</b>	Provision of Senior Process Engineer based in clients' offices in Tripoli.
<b>British Gas Trinidad and Tobago</b>	Provision of Commissioning and Operations Engineers, based in BGT&T's offices in Port of Spain, Trinidad, engaged on the ECMA Expansion Dolphin Deep Project.
<b>Alarko (Turkey)</b>	Provision of Senior Construction Manager to support Client's Project Team during construction phase of the BTC Pipeline Project.
<b>AMEC</b>	Provision of Pipemill Inspection team to monitor production of 20" and 24" pipe during manufacture at Corinth Pipeline, Greece, in connection with the Humbly Grove Project in the UK.

<b>CLIENT</b>	<b>DETAILS</b>
<b>Baku-Tbilisi Ceyhan Pipeline Company</b>	Provision of Pipeline Delivery managers, Project Engineers, Quality Assurance Manager, Safety Engineer during construction of pipeline in Turkey.
<b>Zueitina Oil Company</b>	Provision of Instrument Engineers, Mechanical Engineers, Safety Engineer, Telecommunication Engineer on design and construction activities on pipelines and associated facilities in Libya.
<b>Sakhalin Energy Investment Company</b>	Provision of Contracts Engineers and construction Manager based at locations including Rijswijk, Oslo, London and Sakhalin Island.
<b>Delta Lloyd</b>	Provision of IT Specialist based at Client's office in Amsterdam.
<b>BG International</b>	Provision of Quality Assurance Engineer based in Client's Office in Uruguay.
<b>Kellogg Brown and Root</b>	Provision of Commissioning Manager in connection with pipelines associated with the Nigeria LNG Project.
<b>Shell Global Solutions</b>	Provision of Contracts Advisor based in Rijswijk, Holland.
<b>London Underground</b>	Provision of Procurement Manager based in Client's Head Office.
<b>Transco</b>	Supply of Inspection Controller during construction of the Aberdeen to St Fergus large diameter gas pipeline
<b>ADCO</b>	Provision of a Welding inspector during construction of a large diameter loading ring main at Jebel Dhana
<b>British Gas Uruguay</b>	Supply of Project Quality Manager during the pre construction and planning period of the Argentina to Uruguay pipeline project
<b>Premier Oil Myanmar</b>	Provision of a Construction Manager during construction of large diameter Gas pipeline from Myanmar to Thailand
<b>Phoenix Natural Gas</b>	Provision of Inspection Services during the construction of the Belfast and Larne Loch Crossings.
<b>Tractebel Belgium</b>	Provision of Mechanical and Instrument Maintenance Engineers together with a Corrosion Specialist in Kazakstan supervising pipeline repairs and maintenance on Gas transmission pipelines.
<b>National Gas Company of Greece DEPA</b>	Supply of a team of Production Operators, Metering Specialists and a full Site Maintenance Team on a Major Gas Metering station as part of the Greek gas transmission system.
<b>Shell Philippines</b>	Provision of Pipeline Engineers and Inspection Staff to assist on pipeline routing and associated construction supervision on onshore gas pipelines forming part of the Malampaya Project.

<b>CLIENT</b>	<b>DETAILS</b>
<b>SIEP Netherlands</b>	Provision of Contracts Specialists engaged in Den Haag and Rijswijk.
<b>Maersk Olie Og Gas Denmark</b>	Provision of Quality Surveillance Teams aboard various laybarges during pipelay operations associated with the Svend, Harald and Roar Projects.
<b>Shell Nigeria</b>	Provision of Company Representatives for supervision of diving and maintenance activities.
<b>Premier Transco</b>	Provision of a Quality Monitoring Team aboard the Castoro Sei during pipelay operations associated with the Scotland to Northern Ireland Pipeline Project.
<b>Maersk Olie Og Gas Denmark</b>	Provision of Quality Surveillance personnel aboard the MV Lorelay during pipelay associated with the Skjold B Project.
<b>Maersk Olie Og Gas Denmark</b>	Provision of Quality Surveillance personnel aboard the Reel Barge Apache, during pipelay associated with the Valdemar and Regnar Projects.
<b>Total Oil Marine</b>	Provision of Laybarge Inspection Personnel during offshore Installation of pipeline associated with the Bruce Development Project.
<b>Amerada Hess</b>	Provision of Inspection personnel during installation of offshore pipeline associated with the Scott Development Project.
<b>British Petroleum Exploration</b>	Provision of Laybarge Inspection Personnel during Installation of the Miller Gas System and Forties Replacement Pipeline Projects in the North Sea on board Castoro Sei and LB1601.
<b>Shell Petroleum Development Company Limited, Nigeria</b>	Provision of various discipline engineers, civil, building and mechanical design engineering and draughting services.
<b>Seabank Power</b>	Provision of Quality Monitors to monitor contractors welding coating and radiographic activities associated with pipeline construction.
<b>Maersk Olie Og Gas</b>	Provision of Inspection Services at Bredero Price Norway during application of 24" line pipe coatings associated with the Harald to Tyra pipeline.
<b>Maersk Olie Og Gas</b>	Provision of Inspection Services during linepipe fabrication and manufacturing of bends in Germany and Belgium associated with the Svend, Harald and Roar Project.
<b>Maersk Olie Og Gas</b>	Provision of Quality Surveillance Team during manufacture of approx 80km of 24" pipe at the works of NKK Fukuyama, Japan.
<b>Premier Transco</b>	Provision of team of Inspectors to monitor contractors welding, NDT, coating and Backfill operations, associated with the Scotland to Northern Ireland Pipeline Project (SNIPS).

<b>CLIENT</b>	<b>DETAILS</b>
<b>ADGAS</b>	Provision of Inspection Team under the supervision of our Quality Engineer during a maintenance re-painting programme on a LNG Plant on Das Island.
<b>Maersk Olie Og Gas</b>	Provision of Quality Surveillance Services during coating of linepipe at BPCL Leith, associated with the Svend, Harald and Roar Projects.
<b>Maersk Olie Og Gas</b>	Provision of Quality Surveillance Services at Dalmine pipemill associated with the Svend, Harald and Roar Projects.
<b>Mitsui &amp; Company</b>	Provision of Quality Audit and subsequent inspection services at various steel producing mills in Turkey.
<b>Nigerian Agip Oil Co</b>	Provision of Civil and Contracts Engineers.
<b>Gulf Nigeria/Chevron</b>	Provision of a team of multi-discipline Lead Inspectors and Supervisors based at Gulf's production facilities Escravos Western Nigeria.
<b>Hamilton Oil Co</b>	Provision of Inspection Services during the manufacture of plate, linepipe and bends associated with the Liverpool Bay Landline project.
<b>Maersk Olie Og Gas</b>	Provision of Pipe Mill Inspection Teams, based in Germany and France during manufacture of pipe associated with the Tyra Development Project.
<b>Maersk Olie Og Gas</b>	Provision of Pipe Mill and Yard Coating Inspection teams during manufacture and coating of pipe associated with the Skold B Development Project.
<b>Krupp Koppers</b>	Provision of Project Management assistance during construction of major petrochemical complex in Iran.
<b>Amerada Hess</b>	Provision of Inspection Services in connection with the Scott Field Development Project.
<b>ACER</b>	Provision of Pipe Mill, Works Coating and Welding Inspection Services during construction of Long Sea Outfall on behalf of South West Water.
<b>ACER</b>	Provision of Pipe Mill, Works Coating and Welding Inspection Services during construction of Long Sea Outfall on behalf of South West Water.
<b>Esso Petroleum</b>	Provision of Inspection team during construction of Birmingham Airport Link Pipeline Project.
<b>British Petroleum</b>	Provision of Supervision and Inspection Services during the construction of the Land Pipeline associated with the Miller Gas System Project.
<b>Statoil</b>	Provision of Inspection Team at BPCL Leith during corrosion and weight coating of 550 KM of 20", 30" and 40" pipe associated with the Zeepipe Project.

<b>CLIENT</b>	<b>DETAILS</b>
<b>British Petroleum</b>	Provision of Inspection Team during the application of Foam Insulation to 18KM of 26" pipe at the works of Balmoral Webco, Aberdeen, in connection with the Miller Gas Land Line Project.
<b>Total Oil</b>	Provision of Inspection Teams to supervise manufacture of 250KM of 24in pipe at the works of GTS Dunkirk and Belleville associated with the Bruce Project.
<b>Shell UK Expro</b>	Provision of Welding/NDT services in connection with bundle fabrication associated with the Gannet Project.
<b>Shell Gabon S.A.</b>	Provision of Inspection Services during the development of the RABI Oil Field.
<b>Brunei Shell Petroleum</b>	Provision of specialist engineering services including Planning, Telecommunications, Electrical and Construction Engineers, Design Draughtsmen, Quality Control Supervisors based in the Clients head office in Seria, Brunei.
<b>Hong Kong and China Gas Company</b>	Provision of an Engineer and two supervisors for the 24" and 30" Gas Ring Main – Kowloon/New Territories.
<b>John Taylor &amp; Sons</b>	Provision of Welding and Paint Inspectors during construction of elevated storage tanks in Bahrain.
<b>British Petroleum Exploration</b>	Provision of Quality Surveillance Monitoring personnel during application of anti-corrosion and weight coating operations on 18" and 30" diameter pipes at BPCL, Leith for the Miller and Forties Development Projects.
<b>Badger Catalytic/Badger BV</b>	Vendor Inspection carried out at various locations throughout the UK.
<b>Maersk Olie Og Gas A/S Denmark</b>	Provided surveillance monitoring services at BPCL, Leith, Scotland during application of epoxy coatings for the projects below.
<b>Maersk Olie Og Gas A/S Denmark</b>	Provision of Pipemill Surveillance monitoring personnel during manufacture of pipes at Aulnoye and San Saulve, France for North sea submarine pipelines for the Dagmar and Skjold projects.
<b>British Petroleum</b>	Provision of Inspection Services covering off site works for the Wytch Farm Development Project.
<b>Unipen</b>	Personnel undertaking Quality Surveillance Monitoring during construction of the 10" diameter Plumley-Manchester airport aviation supply pipeline project.
<b>Welsh Water Authority United Kingdom</b>	Quality monitoring during manufacturing and coating of pipes for the Llandudno Long Sea Outfall Scheme. Subsequently supervised all construction operations.

<b><i>CLIENT</i></b>	<b><i>DETAILS</i></b>
<b>British Gas plc</b>	Inspection personnel carrying out Quality Control and Surveillance Monitoring during construction and modification operations at various locations.
<b>Shell Expro</b>	Provision of Inspection Services for topside modifications to Leman 'F' & 'G' and Inde 'N' offshore platforms North Sea.
<b>AMOCO UK Exploration</b>	Provision of Inspection Services during fabrication and construction of facilities for the Arbroath Project.
<b>Nigerian National Oil Company/Pencol Engineering Consultants</b>	Provision of a team of Regional and Expatriate Inspectors for the Pipeline and Facilities associated with the Escravos-Lagos Pipeline.

# Penspen Group Office Locations

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