



upstream project system development

About Upsyde

UPSyde Pipelines LLC is a specialist consultancy offering a wide range of project management, technical assistance and engineering design Services to the oil and gas pipeline industry.

Our focus is to provide our Clients with efficient, cost effective services to support their specific needs at any given level of project maturity. We merge our experienced expatriate personnel with regional resources to offer value added services through utilisation of our state-of-theart innovative techniques for development of oil and gas pipeline systems.

We offer our services from concept through operations and maintenance engineering and on to technical assistance for the banking, insurance and legal professions. This includes: Business Case; Feasibility; Basic (FEED) and Detailed engineering services for all aspects of oil and gas pipeline systems.

We offer these and other services for Onshore & Offshore Field Development Projects, Cross Country Pipelines, and Subsea Pipelines including Tie-Backs and Transmission Systems.

In fact we are able to offer any and all aspects of consultancy, associated with oil and gas pipelines systems.

UPSyde Pipelines are proud to be one of the network companies within the Certified Oilfield Rentals (COR) group. In line with COR's continual growth initiative, UPSyde Pipelines LLC has been introduced in order to provide pipeline services integrated with the other Group network companies.

Some of the other network companies are:

- Larsen Oil & Gas (LOG)
- Petrolia Drilling ASA
- Petrojack ASA
- Premium Casing Services (PCS)
- IOT Dosco
- Increased Oil Recovery (IOR)
- Independent Oil Tools
- AOS
- Dove Energy
- CTSL
- CQS
- MSPEC

UPSyde in conjunction with the Group's other network companies are able to offer a complete range of services for field development projects, world-wide.







Regional Presence

Middle East and Asia

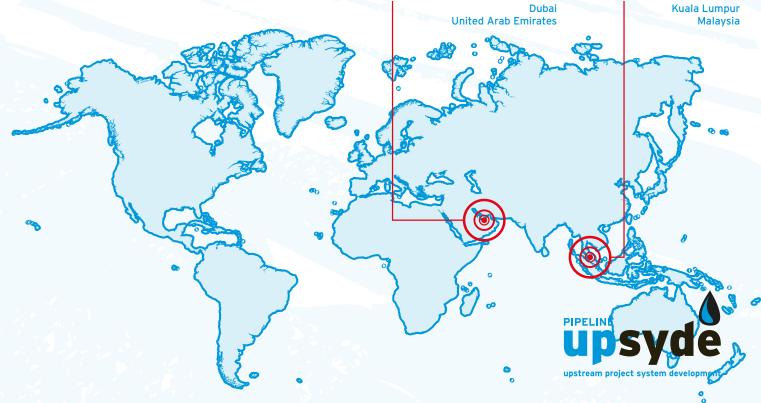
UPSyde Pipelines LLC has it's head office located in Dubai, UAE and a further regional hub in Kuala Lumpur, Malaysia.

The Dubai office generally deals with Projects in Africa, Middle East and Caspian/Central Asia. The Kuala Lumpur office concentrates on the Asia Pacific Region. COR network companies are established in over 33 countries around the world offering support for the UPSyde Pipelines business growth.

UPSyde Pipelines utilise a fully integrated Intranet system allowing each company access to invaluable technical data and other resources as required, 24 hours a day, 7 days a week.















Diverse Portfolio

Integrated Capability

UPSyde Pipelines LLC is an integrated, multidisciplined group of managers, engineers and technicians offering a full suite of services for the oil and gas pipeline industry.

We are able to offer our Clients a single Project Manager or a fully integrated Project Management team to suit Clients specific needs.

Our engineering design teams offer a full suite of skills covering: safety, QA/QC, process, flow assurance, mechanical, equipment, materials, civil, structural, geotechnical, electrical, control systems, instrumentation, cathodic protection, and HVAC disciplines, as required to suit specific project requirements.

UPSyde Pipelines LLC main business areas are:

Upstream - Field Developments (Onshore & Offshore):

- Well sites
- Subsea Production Systems
- Flow & Gathering Lines
- Injection Lines
- Manifolds & PLEM's
- Separation
- Trunk Lines

Midstream - Onshore Pipelines:

- Cross Country pipelines from trap to trap
- CO2 & Chemical Pipelines
- Launcher/Receiver sites
- Valve Stations
- Pressure Reduction & Metering Stations
- Pump & Compressor Stations
- SCADA & Telecommunications Systems

Midstream - Offshore Pipelines:

- Trunk Lines
- Export Lines
- Pipe-in Pipe
- Bundles
- Subsea Tie-ins
- Riser Systems

Downstream - Facilities:

- Storage
- Separation Plants
- Shipping Terminals



Comprehensive Resource

Extensive Expertise

UPSyde Pipelines LLC undertakes all aspects of project management, engineering, procurement, construction supervision, pre-commissioning and commissioning support, including maintenance engineering activities related to the oil and gas pipelines industry.

Our Scope of Services:

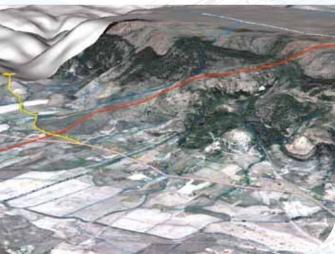
- Project Management
- Business Case & Conceptual Studies
- Geographical Information Systems (GIS)
- Feasibility Studies
- Project Management & Design Verification Services
- Basic Engineering (FEED)
- Detailed Engineering
- Procurement, Expediting & Materials Management
- Construction Management, Supervision & Inspection
- Technical Assistance during Pre-Commissioning & Commissioning
- Due Diligence Services
- Technical Assistance to Commercial Banks, Insurance Co's and Loss Adjustors etc.
- Expert Witness Services

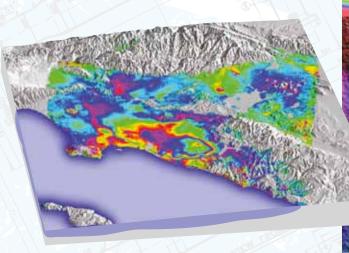
We have a highly qualified and experienced team of managers and engineers with specialist expertise in pipeline system management and engineering design.

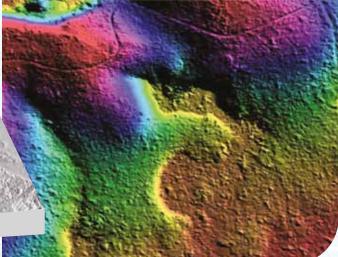
We employ and train locally sourced engineering resources in the latest pipeline engineering techniques.

We are also able to employ the skills of several affiliated world-class consultants when required who have, in the past provided specialist expertise in niche aspects of engineering design utilising cutting edge technology.









Proven Track Record

Project Management

We can define project management as a systematic way of dealing with a project from the start to the finish, holding the ultimate aim as, successful completion of the Project within the specified time period and within budget.

UPSyde Pipelines LLC's approach to Project management ensures that we deliver safely, on time and schedule to the desired level of quality.

In order to do this we have developed our Project Management procedures to the specific requirements of the oil & gas pipeline business.

We at UPSyde Pipelines LLC ensure that our focus is on delivery to our Client by applying the following aspects of management as a minimum:

- Health & Safety
- Quality Assurance & Control
- Environmental
- Planning & Scheduling
- Cost Control
- Risk & Opportunity Management
- Interface Management
- Regulatory Compliance
- Change Management
- Document Control
- Reporting
- Technical Assurance
- Value Improvement
- Lessons Learned
- Site Management & Supervision
- Project Close-out





Innovative Technology Pipeline Systems

UPSyde Pipelines LLC utilise state-of-the-art technology to offer our Clients added-value in the field of pipeline systems management and engineering design.

We utilise our Geographical Information System as a geographical data base in order to organise and rationalise pipeline projects.

Utilising remote sensing techniques combined with the use of satellite imagery, mapping and other data, we have developed several very useful techniques to assist our engineers and technicians in providing the maximum amount of project data at an early stage in a projects life-cycle.

This allows several benefits to our engineering teams which reflects in cost and schedule savings to our Clients.

Some of these techniques are:

- LIDAR Airborne survey tool which develops a 3D DTM
- Laser Scanning Allows accurate "as-builts" to be developed
- Interferometry Allows ground movements to be monitored
- Gradient Mapping Allows for slopes to be determined
- Merged Radar & Satellite Imagery Allows a sub-surface profile to be developed
- Image Analysis & Interpretation Allows recognition of surface and sub-surface features & detection of change
- Field Utilisation Allowing rapid response during surveys.

In addition to these techniques we have developed the following:

- Cost Estimating Model
- Diameter Optimisation Model
- Automatic Class Location Tool
- Route & Cost Optimisation
- 3D Terrain Analysis

Further data can be provided on these aspects as required.



Proven Track Record

Experience



Having recently been commissioned by COR, UPSyde Pipelines LLC relies on the significant experience of its key personnel in developing and executing projects.

A list of recent key projects undertaken is attached below:

AWARD DATE	CLIENT	PROJECT DESCRIPTION	PROJECT VALUE (USD)	PROJECT DURATION (MONTHS)
2010	KPC/CNPC - Petrochina CPE-SW	UPSyde were engaged in provision of technical advice for the FEED associated with the South Yolotan Gas Field in Turkmenistan. Lines included: 28 flow lines, 6" Condensate transfer line and a 120 km long 56" dia gas export pipeline.	\$300,000	4 months
2009/10	Papua New Guinea Confidential	Gas & Condensate Pipelines and associated Field Development Projects. UPSyde Pipelines Group have carried out studies on pipeline systems and associated facilities. Pipeline systems include: 50km production flowlines comprising a range of pipeline sizes, 90km 20" gas pipelines, 90km 4" & 6" Condensate evacuation pipelines' 30km gas re-injection flow lines.	\$1.5 million	24 months
2009	OMV (Yemen Block S2) Exploration Gmbh	S2 Field Development - Front End Engineering Design (FEED) and Detailed Engineering of: Flow, trunk lines & Remote Manifold Stations, Well Sites & Power Distribution Network. Project consists of 44 wells arranged in 3 satellites. Approx 180 km of flow lines and 30 km of trunk lines from the remote manifolds.	\$750,000	18 months
2009	Mellitah Oil & Gas	Gaza FSO (Sloug Replacement) Project (Bouri Field) Offshore Libya. UPSYDE carried out the Project Management responsible for replacing the existing FSO on the Bouri Field development, included FSO supplier (COSCO, China) and subsea pipeline and systems supplier (KW Ltd, UK) Management.	\$5 million	33 months
2008/9	Hoang Long JV Co	TGT field Development project - Pipe-in-Pipe from production platform to FPSO. Project consisted of: Gas export pipeline 24Kms to existing platform - Bach Ho field, Gas lift pipelines to all platforms for well stimulation, Subsea umbilical FPSO to platform, Water injection pipelines to all platforms. Connecting 2-3 platforms to FPSO Offshore Vietnam, FEED and Detail design.	\$1.2 million	12 months
2007	Dove Energy	Bayoot and Sharyoof onshore field development - Yemen - UPSYDE Pipelines assessed the condition of existing pipeline and evaluated the best method for rehabilitation at large wadi crossing. Assessed ESP requirements and developed gas supply layout to power ESP's, including both field operating scenarios.	\$76,000	9 months
2007	Petrofac Malaysia	Cendor - Mobile Production Unit - UPSYDE Pipelines designed procured and installed the production riser and pipeline to an FSO facility.	\$175,000	18 months
2007	Al-Jaber Energy Services	Qatar Gas Molten Sulphur Handling Facility - Conveying, storing and transportation of 12,000MT/day of molten sulphur. UPSYDE provided engineering support and Project Management to the EPC 42Km liquid sulphur pipeline.	\$2.2 million	24 months
2006	Al-Jaber Energy Services	Abu Dhabi - Taweelah Gas Receiving Station - EPC Pipelines for receipt and metering of gas from main Qatar pipeline. Let down and pre-heat facilities. UPSYDE provided Engineering and Project Management support.	\$1.6 million	17 months
2005	Petreco - Bulgaria	Onshore gas pipeline - 60kms 12" NB design, procurement and construction supervision including metering station and hot tap tie-in to existing main pipeline.	\$3.5 million	20 months
2004	Santos	Maleo - Mobile Offshore Production Unit - UPSYDE Pipelines scope included pipeline, riser and subsea tie-in design. Evaluation of preferred installation method off bottom tow against conventional lay and subsea hot tap design. Preparation of EPC documentation for an Installation contractor.	\$5.5 million	18 months
2002	Al-Jaber Energy Services	Fujairah - Al Ain Water Trunk line - 180 Km 64" carbon steel water transmission pipeline & 19 Km 24" spur line. Associated pumping, water storage tanks and control systems. UPSYDE were responsible for Engineering and Project Management support.	\$2.2 million	36 months

