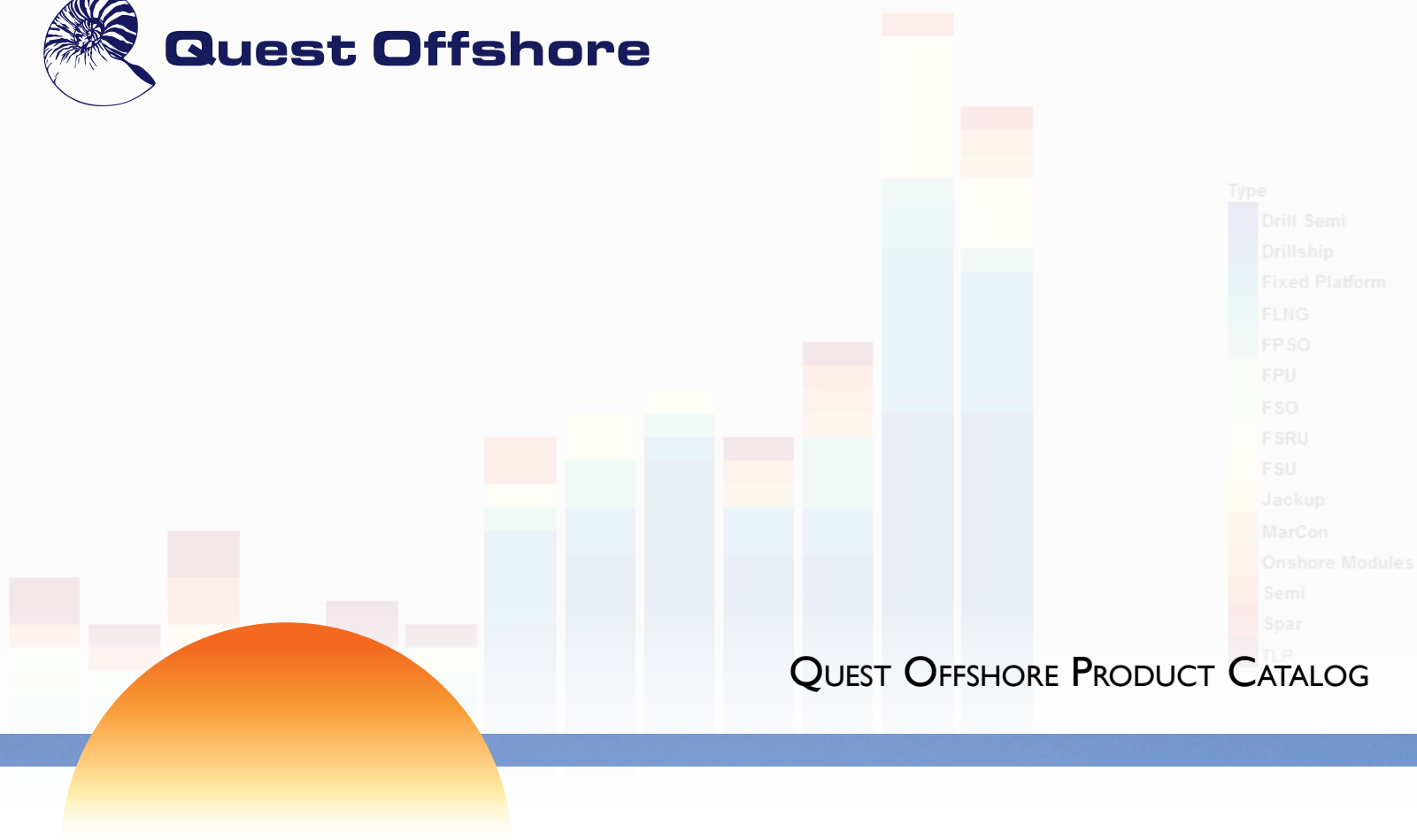




Quest Offshore

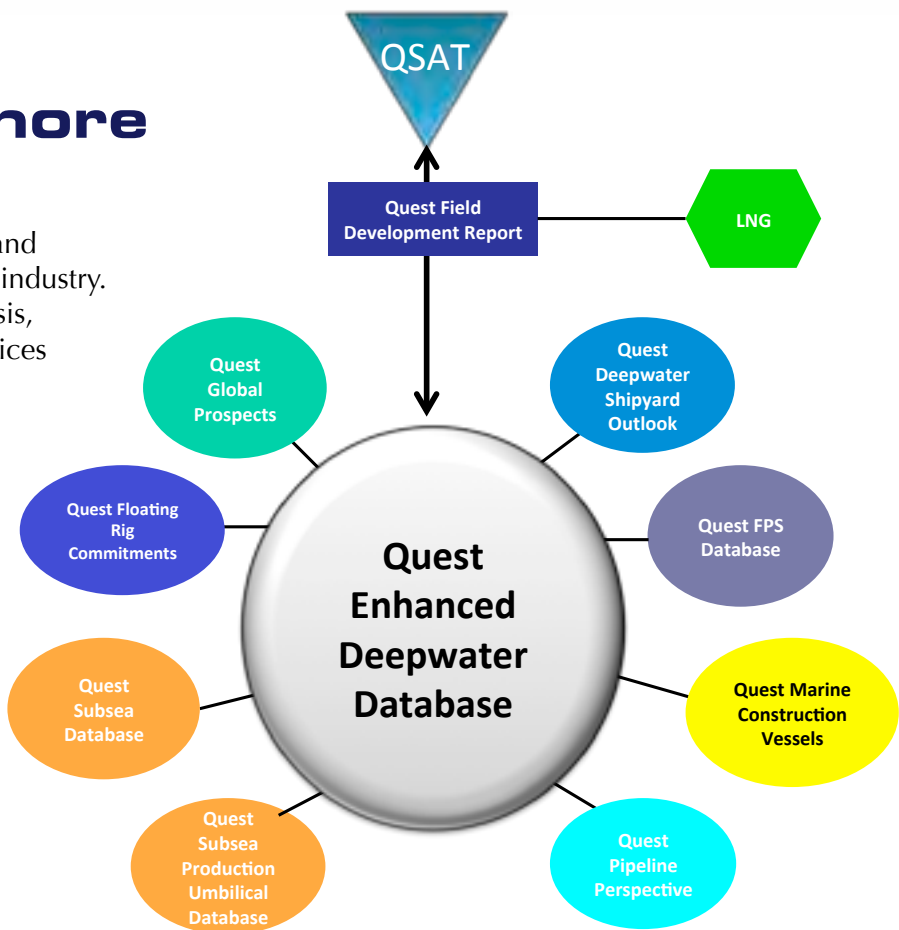


About Quest Offshore Resources

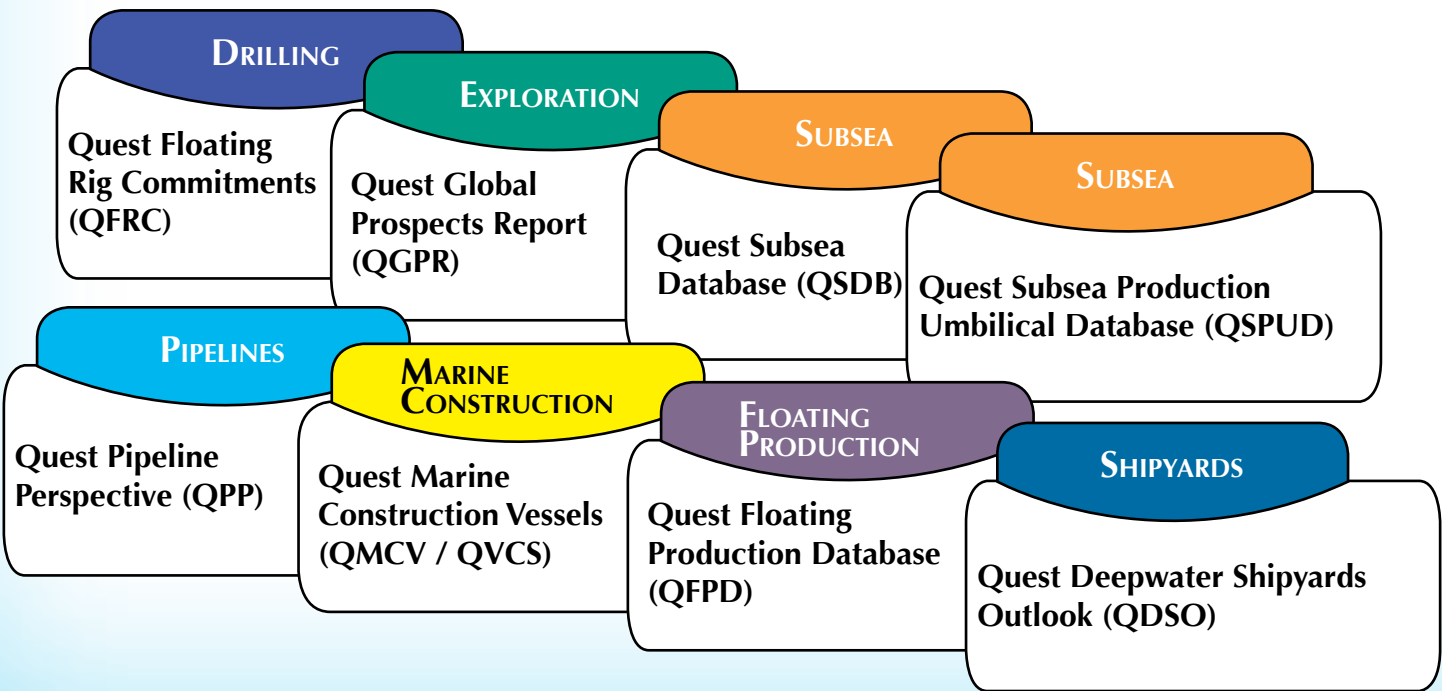


Quest Offshore is a boutique strategic advisory and consulting firm to the global offshore Oil & Gas industry. Quest provides market expertise, strategic analysis, marketing communication and consultancy services focused primarily on technology-led solutions for deepwater exploration, development and exploitation activities.

Through a dedicated team of sector specialists focused on qualitative and quantitative data, Quest is able to provide a suite of subscription data products designed to identify global market opportunities for deepwater technologies. The Quest Enhanced Deepwater Development Database is the cornerstone of Quest’s capabilities to analyze and illustrate the regional and global nuances of each step of a field’s lifespan from leasing rounds to decommissioning activity.



Quest Product Catalog Directory

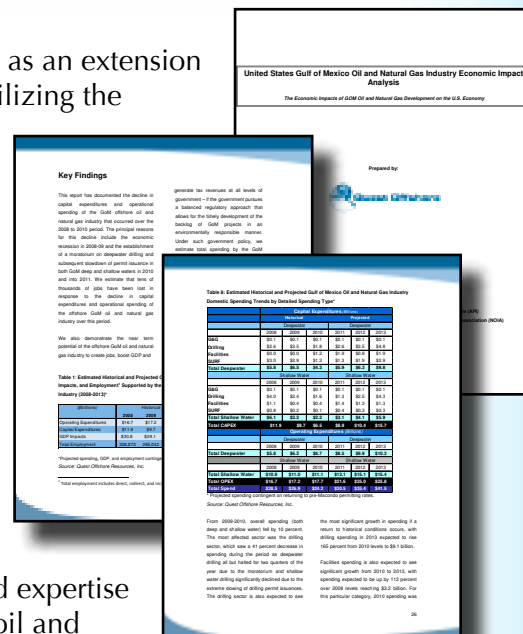


Quest Consulting Services & Experience

Quest Consulting Services & Experience

Quest Offshore's consultancy practice has grown considerably in recent years as an extension of our comprehensive market coverage through our subscription products. Utilizing the Quest Enhanced Deepwater Development Database, in combination with our global network of key industry contacts, Quest maintains the flexibility to speak to a wide variety of questions and requirements through a client-driven consulting process aimed at providing accurate and concise results in a format best fitting the customer's needs.

Clients engage Quest's consulting practice from all business areas involved in deepwater oil and gas including financial firms, engineering firms, supply chain companies, trade groups, law firms and oil companies. Our clients look to branch out into new areas of the market and seek to understand the competitive landscape, to better understand the current and future pricing environment, to expand upon a market trend illustrated in a current subscription product, or otherwise utilize the data and expertise of Quest. Quest is a leading source for valuable, client-directed consulting products and expertise that enables companies to make well-informed decisions across the offshore oil and gas industry.



Select Consulting Experience

Buy Side Investment Firm	Comprehensive Investor Briefing Book
Flexibles & Umbilical Contractor	Analysis of Industry Decision Centers Related to Forecast Demand
FPS Contractor	Report on the Market for FPS Moorings
Independent Oil Company	Multi-Project Component and Total Cost / Reserve Analysis
Industry Lobby Groups	Analysis of Economic Impact of Offshore Industry
	Regulatory Impact Analysis
International Chemicals Company	Global Pipeline Insulation Report
Major International Oil Companies	Offshore Pipeline Pigging Study
	Gulf of Mexico Field Development Study
	FPS Fabrication Yard Report
	Subsea Equipment Pricing Study
	Deepwater Equipment Cost Indices
	Hind-cast Trends in Marine Construction Asset Day Rates
	Analysis of Current and Future Subsea Processing Applications
	Forecast Marine Construction Asset Day Rate Model
Major National Law Firm	Contract Dispute Research and Analysis, Expert Witness Services
Major Rig Fabricator	Government Required Cost Benefit Analysis
Marine Construction Contractors	Global SURF Installation Spending Report
	Market Outlook and Business Plan Support
	Newbuild Vessel Cost Analysis
	Vessel Capabilities and Work Targeting Study
Operator / Engineering Contractor	FPS Replacement Cost Valuations
Private Equity Investors	Engineering Firm Capabilities and Work Targeting Study
	Newbuild Pipelay / Construction Valuation and Market Study
	Detailed Supply & Demand Analysis for all SURF Components
	Comprehensive Analysis of Market Opportunities for Niche Player
Steel Supplier	Large Diameter Pipeline Competitor Analysis
Steel-tube Supplier	Regionally-Specific Analysis of Deep and Ultradeepwater Steel Demand

Quest Floating Rig Commitments (QFRC)

STRATEGIC VALUE

- Identifies global and regional deepwater exploration, appraisal and development well drilling demand
- Details global and regional floating rig supply, including existing fleet and newbuild units
- Illustrates "gap" analysis between global well demand and floating rig supply

QFRC Deliverables

- Monthly snap-shot of Quest Floating Rig Commitments in MS Excel
- Quarterly market overview outlining key forecast trends in MS PowerPoint

QFRC Outline

Global Drilling Activity

- Current Drilling Activity by Well Type (*Exploration, Appraisal, Development*)
- Most active Operators currently drilling with Floating Rigs
- Global Floating Rig Supply & Total Well Demand

Quarterly Regional Activity

- Current Drilling Activity by Well Type (*Exploration, Appraisal, Development*)
- Percentage of rigs working by provinces within the region
- Supply and Demand by Region – five-year forecast
- Average Day-rates among top five operators in region

Floating Rig Analysis

- Twelve Month Utilization by Region & Global Comparison
- Floating Rig Supply to 2018 (Contracted vs. Spec Rigs)
- Newbuild Deliveries out to 2018
- Operators with Newbuilds ordered
- Stacked Rigs by Type
- Top 10 Operators with Floating Rigs contracted



RIG SUPPLY

Rig Owner	Rig Name	Rig Type	Station Keeping	Drilling Depth ft	WD Rate FT	WD CULL	Year Build
Transocean	Discoverer Luanda	Drillship	dp	40000	7500	Ultra-deep	2010
Enso	Enso 5001	Semi	moored	25000	6500	Deepwater	1998
Transocean	Jack Bates	Semi	moored	30000	5400	Deepwater	1997
Vantage Drilling	Platinum Explorer	Drillship	dp	40000	10000	Ultra-deep	2011
Noble Drilling	Noble Discoverer	Drillship	moored	20000	2000	Mid-water	1975
Transocean	Deepwater Pathfinder	Drillship	dp	30000	10000	Ultra-deep	1998
Saipem	Scarabeo 5	Semi	dp	29500	6000	Deepwater	1990

RIG CONTRACTS

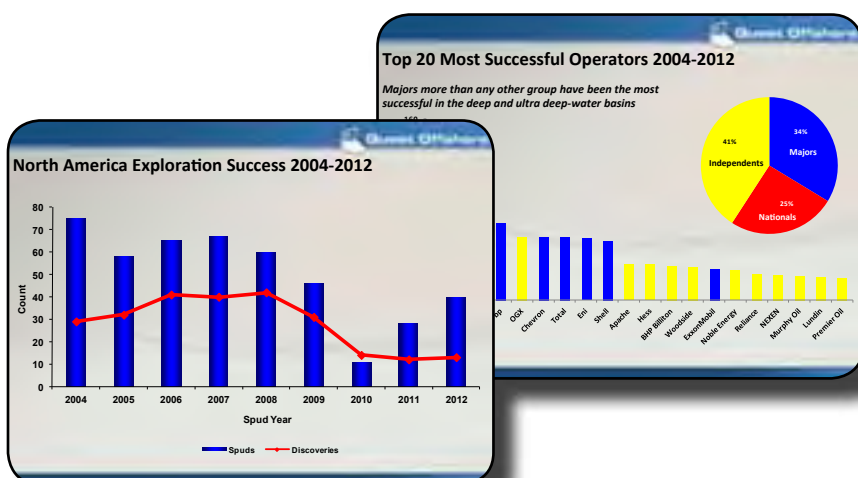
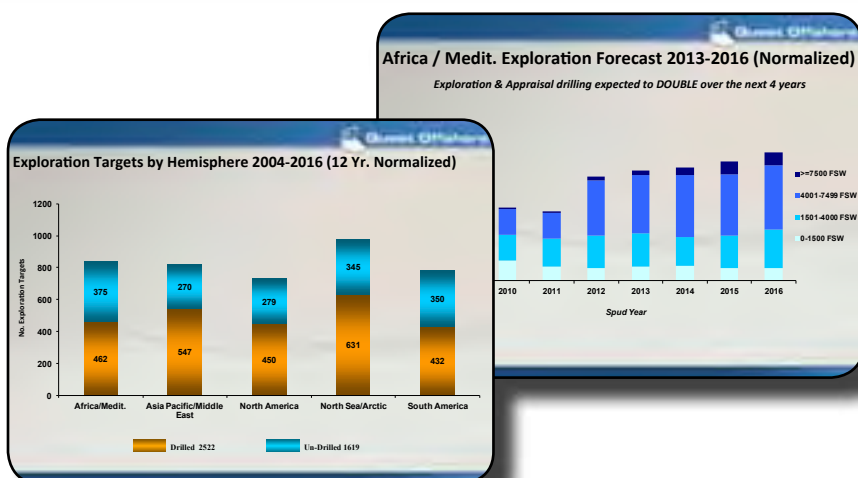
Operator	Hemisphere	Province	Contract Start	Contract End	Yr Avail	Day Rate (\$000)
bp	Africa/Medit.	Angola	11/1/2010	1/15/2018	2018	470
Maersk	Africa/Medit.	Angola	10/1/2011	9/10/2012	2014	275
Santos	Asia Pacific/Middle East	Australia	7/15/2012	4/15/2013	2013	380
ONGC	Asia Pacific/Middle East	India	1/1/2011	1/1/2016	2016	590
Royal Dutch/Shell	North America	Alaska	7/15/2012	3/1/2014	2014	240
Eni	North America	GOM-US	9/1/2010	4/1/2015	2015	672
Statoil	North Sea/Arctic	N Sea, Norway	9/15/2002	9/1/2017	2017	400
Statoil	North Sea/Arctic	West of Ekofisk	1/10/2012	1/10/2015	2015	452
Statoil	North Sea/Arctic	West of Ekofisk	1/10/2012	1/10/2015	2015	270
Statoil	North Sea/Arctic	West of Ekofisk	1/10/2012	1/10/2015	2015	530

EXPLORATION & DEVELOPMENT WELL SPUDS

Project Type	Quest ID	Well Type	Project Name	Block	Water Depth Mtr	Project Status
Parent Project	1754	D	BLOCK 31 PHS 1 (NE AREA) (PSVM)	Blk 31'	1804	Pending/Construction
Prospect	4255	E	Block 23 Exploration (Kwanza Basin)	Blk 23'	1200	Drilling (Prospect)
Prospect	1056	E	Crown-1	WA-274-P'	1000	Drilling (Prospect)
Prospect	3694	E	KG Basin Exploration (ongoing)	Krishna-Godavari Basin'	1000	Drilling (Prospect)
Prospect	3030	E	Burger Top-Hole	6713-6714'	50	Drilling (Prospect)
Prospect	3837	E	Appaloosa well 003	MC460'	803	Drilling (Prospect)
Parent Project	3509	D	Hyme 6407/8-C-2	6407/8'	256	Pending/Construction
Prospect	3795	E	Tomintoul 205/9-2	205/9'	580	Drilling (Prospect)
Prospect	3572	E	Sabia BM-S-72	S-M-1100'	200	Drilling (Prospect)
Prospect	3835	E	Scotia (Hersilia Complex)	Northern License Area'	800	Drilling (Prospect)

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Quest Global Prospects Report & Quarterly (QGPR/QGPQ)



PROSPECT-LEVEL DATA

Operator	Prospect Name	Hemisphere	Province	Block	Water Depth Mtr
OGX	Abacate Extension Well	South America	Brazil	'BM-S-29'	100
Royal Dutch/Shell	Benbecula	North Sea/Arctic	West of Shetland	'154/1a'	1240
Nido	Bikuda SC58	Asia Pacific/Middle E	Philippines	'SC58'	1000
bp	Capella KC 414	North America	GOM-US	'KC414'	1680
ConocoPhillips	DS-08-11	Asia Pacific/Middle E	Bangladesh	'DS-08-11'	1000
Petrobras	Mexilhao	Africa/Medit.	Portugal	'Mexilhao Blk / Lusitana B.	3000
Petrobras	Park of Sweets area BM-ES-23	South America	Brazil	'ES-M-525'	1400
Premier Oil	Rocket (Catcher Area)	North Sea/Arctic	N Sea, UK	'28/9'	100
Cobalt International Ener	Rocky Mountain MC649	North America	GOM-US	'MC649'	1890

WELL-LEVEL DATA

Well Type	Spud Mo	Spud Yr	Status	Rig Name	Modified Date	Modified Year	Drilling Notes
Appraisal	9	2013	Prospect (Prospect)		11	2012	Nov 2010: OGX assumed Maersk interest and becomes operator; more 3d se
Exploration	4	2013	Prospect (Prospect)		9	2011	
Exploration	5	2014	Prospect (Prospect)		6	2012	2d seismic to complete mid 2012; will drill Balyena prospect in same block fir
Exploration	9	2013	Prospect (Prospect)		7	2010	
Exploration	7	2013	Prospect (Prospect)		7	2012	Bangladesh winter season is Nov-Feb
Exploration	9	2014	Prospect (Prospect)		7	2011	200-3000 meter water depths in block
Exploration	10	2013	Prospect (Prospect)		11	2012	addt wells planned for area after making multiple discoveries
Exploration	9	2014	Prospect (Prospect)		3	2012	one of three low risk prospects identified to drilled before 2015 (incl Rapid
Exploration	11	2013	Prospect (Prospect ENSCO 850:		10	2011	One of many prospects on Cobalts priority list to be drilled.
Exploration	9	2014	Prospect (Prospect)		8	2012	

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STRATEGIC VALUE

- Outlines global deepwater exploration opportunities
- Leading indicator for long-term deepwater development activity
- Highlights upcoming areas of focus and operator interest for E&P activity
- Prospect-level data enabling users to identify which drilling programs are driving future trends

QGPR/QGPQ Deliverables

- ▶ Monthly snapshot of exploration activity (MS Excel)
- ▶ Quarterly market analysis of global and regional exploration trends (MS PowerPoint)

QGPR/QGPQ Outline

Global Deepwater Exploration Activity

- Drilled and undrilled activity by hemisphere
- Drilled and undrilled activity by water depth cull
- Drilled and undrilled activity by current status

Operators' Activity Highlights

- Drilled and undrilled activity by operator classification
- Top 15 Most Active, Most Successful and Least Successful drillers
- Global Deepwater Exploration Drilling Activity – Five-Year Rolling Forecast
- Identified Exploration and Appraisal counts
- Forecast drilling by hemisphere compared to actual drilling

Quarterly Regional Activity

- Comparison of activity levels by regions within a hemisphere
- Operator activity in a specific region
- Exploration activity levels by water depth category
- Drilling Success Rates since 2004

Quest Offshore

Quest Subsea Database (QSDB)

STRATEGIC VALUE

- Industry leading forecast of subsea tree awards
- Market forecasts illustrate near and long-term health of overall subsea industry
- Key analysis around regional, operator and water depth trends for subsea tree awards and startups
- Historic and forecast subsea CAPEX analysis

QSDB Deliverables

- Market Overview in MS PowerPoint of key trends and forecasts
- Full working files in MS Excel supporting Market Overview
- Full downloads of historic and forecast subsea databases

QSDB Outline

Subsea Project Spend by Onstream (Startup) Year

- Illustrations of global historical and forecast spending for entire subsea production package

Market Forecast Subsea Awards

- Quest applies a base, mean and high case to all projects to take into consideration the location, timing, status, etc. of a project in calculating forecasted trees. Current market dynamics also influence the base and high case scenarios for projects.
- Historical and five-year forecast of global subsea tree awards: By Region, By Water Depth, CAPEX analysis for tree, control and manifold hardware (Only)
- Top operators classified by their mean case tree award forecast

Market Analysis Subsea Tree Startups

- Illustrates historic and forecast installed base of subsea tree awards
- From 1996 and includes six-year forecast: By Region, By Water Depth

Market Share Analysis

- Long-term regional subsea tree market share
- Current quarter analysis of subsea tree and control awards
- Current quarter and YTD review of subsea tree, control and manifold awards by manufacturer and estimated value (US\$)

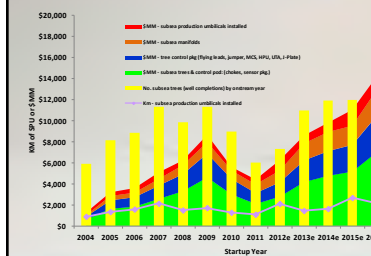
HISTORICAL TREE-LEVEL DATA										
Province	Operator	Project Name	Status	Tree Booked Date	Tree Delivery Year	Subsea Contract (\$000)	Number Of Manifolds	Manifold Mfg	Tree Mfg	Controller Mfg
N Sea, Norway	BG Group	KNARR CENTRAL & WEST	Pending/Construction	9/20/2011	2014	\$135,000.00	2	FMC Technologies	FMC Technologies	FMC Technologies
N Sea, Norway	BG Group	KNARR CENTRAL & WEST	Pending/Construction	5/5/2012	2014	\$135,000.00	2	FMC Technologies	FMC Technologies	FMC Technologies
N Sea, Norway	BG Group	KNARR CENTRAL & WEST	Pending/Construction	5/5/2012	2014	\$135,000.00	2	FMC Technologies	FMC Technologies	FMC Technologies
N Sea, Norway	BG Group	KNARR CENTRAL & WEST	Pending/Construction	9/20/2011	2013	\$135,000.00	2	FMC Technologies	FMC Technologies	FMC Technologies
N Sea, Norway	BG Group	KNARR CENTRAL & WEST	Pending/Construction	9/20/2011	2013	\$135,000.00	2	FMC Technologies	FMC Technologies	FMC Technologies
N Sea, Norway	BG Group	KNARR CENTRAL & WEST	Pending/Construction	9/20/2011	2013	\$135,000.00	2	FMC Technologies	FMC Technologies	FMC Technologies
N Sea, Norway	BG Group	KNARR CENTRAL & WEST	Pending/Construction	9/20/2011	2014	\$135,000.00	2	FMC Technologies	FMC Technologies	FMC Technologies
N Sea, Norway	BG Group	KNARR CENTRAL & WEST	Pending/Construction	9/20/2011	2014	\$135,000.00	2	FMC Technologies	FMC Technologies	FMC Technologies

SUBSEA FORECAST-LEVEL DATA								
Status	Subsea Tree Count	Tree Bid Date	Tree Award Date	Tree Award Qtr	Award Year	Bidder 1	Bidder 2	Bidder 3
Bidding	58	9/1/2012	6/1/2013	2	2013	Aker Solutions	FMC Technologies	
FEED	5	6/1/2013	1/1/2014	1	2014	Cameron		
FEED	18	9/1/2013	3/1/2014	1	2014	GE Oil & Gas	FMC Technologies	
Conceptual	10	1/1/2015	6/1/2015	2	2015			
Conceptual	10	6/1/2013	3/1/2014	1	2014	FMC Technologies	GE Oil & Gas	
FEED	6	6/1/2014	6/1/2015	2	2015	FMC Technologies	Cameron	GE Oil & Gas
FEED	8	1/1/2013	6/1/2013	2	2013	FMC Technologies		
FEED	8	1/1/2013	6/1/2013	2	2013	FMC Technologies		

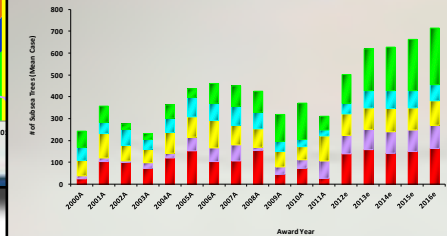
PROJECT-LEVEL DATA								
Hemisphere	Province	Operator	Project Name	Block	Water Depth Mtr	Startup Year	Host Field Name	Offset From Host Km
Africa/Medit.	Angola	Total	Kaombo Phase 1 (BLOCK 32)	'32'	1540	2018	Kaombo Phase 1	20
Africa/Medit.	Israel	Noble Energy	LEVATHAN EPS (DOMESTIC SUPPLY)	'Rachel License'	1000	2017	LEVATHAN EPS (DOMESTIC SUPPLY)	3
Asia Pacific/Middle East	Indonesia	INPEX	ABADI GAS FIELD FLNG (MASELA BLOCK)	'Maseila'	500	2017	ABADI GAS FIELD FLNG (MASELA BLOCK)	5
Asia Pacific/Middle East	Indonesia	Chevron	KUTEI BASIN: RANGGAS (RAPAK PSC)	'Rapak PSC'	1600	2018	MAKASSAR STRAIGHT PHS 3	11
North America	GOM-Mexico	Pemex	LAKACH-LABAY COMPLEX	'Deep Coatzaocalcos'	1500	2016		50
North America	GOM-US	ExxonMobil	JULIA WR627	'WR627'	2160	2017	HADRIAN NORTH KC919	75
North America	GOM-US	Royal Dutch/Shell	STONES FFD WR508	'WR508'	2900	2015	STONES FFD WR508	5
North Sea/Arctic	N Sea, UK	Enquest PLC	KRAKEN 9/2b	'9-2'	118	2016	KRAKEN 9/2b	3
North Sea/Arctic	West of Shetlands	Hurricane Exp	LANCASTER 205/21A PHS 1	'205/21a'	157	2016	LANCASTER 205/21A PHS 1	3
South America	Falkland Island	Premier Oil	SEA LION 14/10-3	'14/10-8'	400	2017	SEA LION 14/10-3	3

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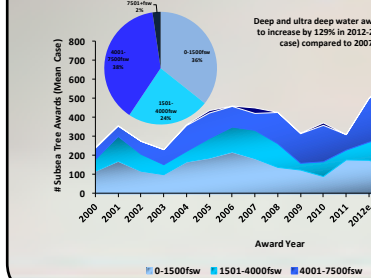
World Subsea Production Capex
Forecast spending 2012-2017e \$67.2bn



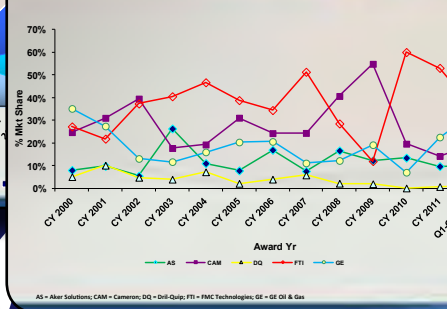
Quest Global Subsea Tree Forecast Awards Mean Case
2000A to 2016e



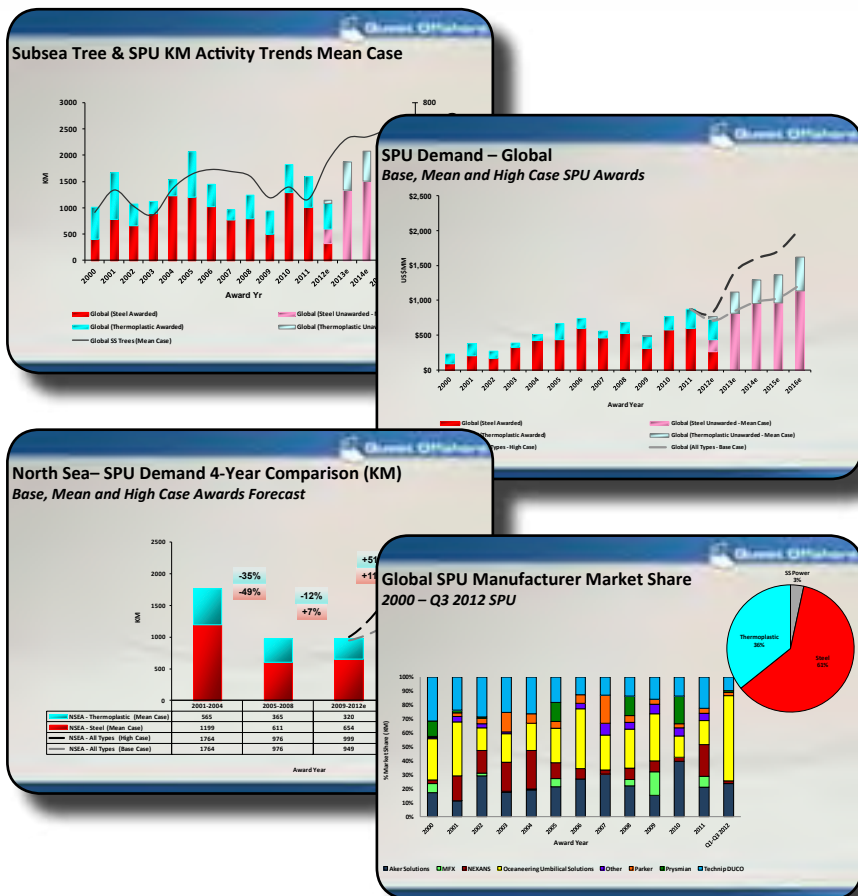
Global Subsea Tree Awards by Water Depth
2000-2016e (Forecast = Mean Case)



Global Consolidated Market Share



Quest Subsea Production Umbilical Database (QSPUD)



STRATEGIC VALUE

- Illustrates global demand trends for the subsea production umbilical (SPU) market
- Delineates market into steel-tubed and thermoplastic-hosed SPU demand
- Analyzes market in terms of volume (KM) and value (US\$MM)
- Provides comprehensive market share analysis of historical global awards

QSPUD Deliverables

- Market Overview in MS PowerPoint of key trends and forecasts
- Full working files in MS Excel supporting Market Overview
- Full downloads of historic and forecast subsea production umbilical database

QSPUD Outline

Market Forecast of Subsea Production Umbilical Capex by Award Year

- Top operators classified by their historic and forecast demand
- Comparison of region demand based on historical and forecasted SPU awards
- Includes comparison between steel and thermoplastic SPU's for each region

Subsea Production Umbilical Forecast Awards

- Kilometers of SPU awarded (historical and forecast) vs. number of trees awarded (historical and forecast)
- Comparison between hemispheres based on SPU awards in kilometers and equivalent US\$
- Illustration of dynamics between steel and thermoplastic demand within the SPU market historically and in the next five years.

Historical Umbilical Market Share

- Market share of SPU manufacturers
- Regional Comparison between hemispheres based on historical-to-date awards
- Steel vs. thermoplastic comparison

Forecast Umbilical-Level Data

Umbilical Status	Umbilical Type	Bid Date	Award Date	Install Date	Length Meters	Mfg Bidder 1	Mfg Bidder 2	Mfg Bidder 3
LOI (Letter of Intent)	Steel Super Duplex	6/1/2007	4/1/2015	1/1/2017	104585	Technip DUCO		
Bidding	Steel Super Duplex	4/2/2012	12/20/2012	9/1/2014	43443	Aker Solutions	Oceanneering Umbilical Sol	Technip DUCO
FEED	Steel	6/1/2013	3/1/2014	8/1/2015	25000	NEXANS	JDR Umbilical Systems	Technip DUCO
Bidding	Thermoplastic	9/1/2012	1/1/2013	7/1/2013	10000	JDR Umbilical Systems		
Bidding	Steel	3/1/2012	12/1/2012	1/1/2015	1000	NEXANS	Oceanneering Umbilical Solutions	
Conceptual	Steel	6/1/2014	1/1/2015	1/1/2018	20000	NEXANS		
Conceptual	Subsea Power	6/1/2014	1/1/2015	1/1/2017	20000	NEXANS		
Bidding	Steel	6/1/2012	3/1/2013	4/15/2015	25000	Aker Solutions	NEXANS	Oceanneering Umbilical Solutions
FEED	Thermoplastic	1/1/2013	10/1/2013	6/1/2015	60000	Oceanneering Umbilical Solutions		
Bidding	Thermoplastic	6/1/2011	12/20/2012	4/1/2013	10000	Oceanneering Umbilical Solutions		

Project-Level Data

Hemisphere	Province	Operator	Project Name	Block	Water Depth Mtr	Startup Year	Offset From Host Km
Africa/Medit.	Angola	bp	BLOCK 31 PHS 3 (CHTMCP)	'Blk 31'	1602	2017	5
Africa/Medit.	Angola	Chevron	LIANZI ANGOLA-CONGO UZ BLOCK 14	'14'	909	2015	43
Asia Pacific/Middle East	China	CNOOC	LIUHUA 16-2	'16-2'	400	2016	2
Asia Pacific/Middle East	Philippines	Otto	GALOC PHS 2	'SC 14C'	290	2013	5
North America	GOM-US	bp	ATLANTIS PHS 2B GC699/GC700/GC743/GC743/GC744	'GC787'	2156	2015	9
North America	GOM-US	bp	Kaskida KC292	'KC292'	1786	2018	5
North America	GOM-US	bp	Kaskida KC292	'KC292'	1786	2018	5
North Sea/Arctic	N Sea, Norway	Statoil	AASTA HANSTEEN (6707/10-2, 6706/10)	'6707/10'	1275	2016	5
South America	Brazil	Petrobras	FRANCO-1 TRANSFER OF RIGHTS FPSO P-74	ANP Transfer of Rights	2100	2016	3
South America	Brazil	OGX	TUBARAO AZUL (FRMR WAIMEA) PHASE 2 BM-C41 (OSX-2)	'BM-C41'	140	2013	5

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Quest Offshore

Quest Pipeline Perspective (QPP)

STRATEGIC VALUE

- Illustrates global demand for deepwater flowline and pipeline installation and SURF projects
- Breaks market down into outer diameter ranges aligned with installation asset capabilities
- Analyzes demand associated with subsea projects, export lines and large transmission lines
- Detailed data includes location, pipeline specs, length, installation contractors and milestone dates

QPP Deliverables

- ▶ Market Overview in MS PowerPoint of key trends and forecasts
- ▶ Full working file in MS Excel supporting Market Overview
- ▶ Full downloads of historic and forecast deepwater pipeline and flowline database

QPP Outline

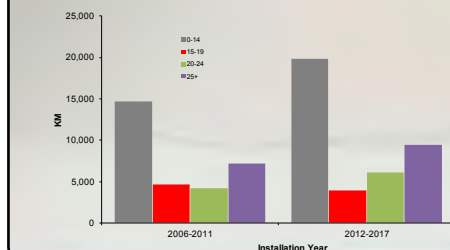
Kilometers of flowline installed worldwide

- Provides Base, Mean, and High Six-Year Forecast Cases
- Historical Analysis from 2002 onward.
- Outside Diameter Analysis: 0-14", 15-19", 20-24", 25"+
- Rigid Steel and Flexible Analysis

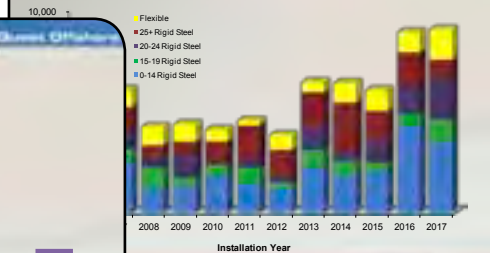
Comparison of hemispheres and provinces based on historical and forecasted flowline projects

- Base, Mean, and High Normalized Case Six-Year Forecasts
- Historical Analysis from 2002 onward
- Outside Diameter Analysis per Hemisphere: 0-14", 15-19", 20-24", 25"+
- Demand Allocation: Global Demand Allocation by Kilometer
- Demand Growth: Historical v. Forecast Five-Year Period

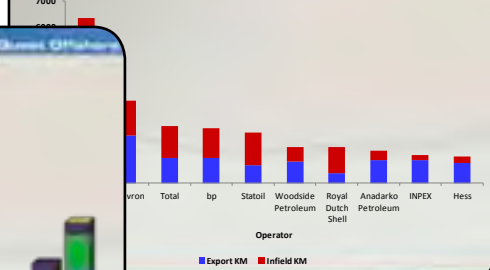
Worldwide Pipeline Demand Growth 2006 – 2011 vs. 2012 – 2017



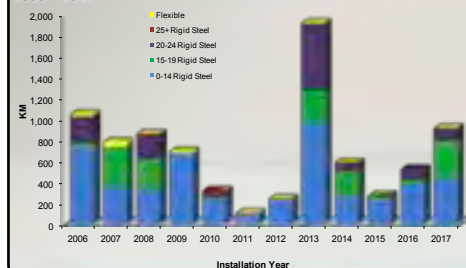
Worldwide Pipeline Demand 2006 – 2017



2012e-2017e Top Operators by Pipeline Installation (KM) Infield v. Exports



Gulf of Mexico Pipeline Demand 2006 – 2017



PROJECT-LEVEL DATA

Operator	Hemisphere	Province	Field	Block	Water Depth Mtr	Subsalt/P result	Stranded Gas	Year	Project Bid Date	Offset From Host Km
Total	Africa/Medit.	Angola	CLOV: CRAVO, VIOLETA, ORQUIDEA, LIRIO BLOCK 17	'Blik 17'	1291 No	No	No	2014	7/1/2008	15
Total	Africa/Medit.	Angola	CLOV: CRAVO, VIOLETA, ORQUIDEA, LIRIO BLOCK 17	'Blik 17'	1291 No	No	No	2014	7/1/2008	15
Total	Africa/Medit.	Angola	CLOV: CRAVO, VIOLETA, ORQUIDEA, LIRIO BLOCK 17	'Blik 17'	1291 No	No	No	2014	7/1/2008	15
Total	Africa/Medit.	Angola	CLOV: CRAVO, VIOLETA, ORQUIDEA, LIRIO BLOCK 17	'Blik 17'	1291 No	No	No	2014	7/1/2008	15
Chevron	Asia Pacific/Middle East	Australia	GREATER GORGON (GORGON, JANSZ, CUO) LNG	'WA-2-R'	200 No	Yes	2014	1/15/2008	65	
Chevron	Asia Pacific/Middle East	Australia	GREATER GORGON (GORGON, JANSZ, CUO) LNG	'WA-2-R'	200 No	Yes	2014	1/15/2008	65	
Enterprise Products Partners	North America	GOM-US	INDEPENDENCE HUB (AVP)	'MC920'	2415 No	No	2007	7/1/2004	5	
Enterprise Products Partners	North America	GOM-US	INDEPENDENCE HUB (AVP)	'MC920'	2415 No	No	2007	7/1/2004	5	
Enterprise Products Partners	North America	GOM-US	INDEPENDENCE HUB (AVP)	'MC920'	2415 No	No	2007	7/1/2004	5	
bp	North America	GOM-US	TIBER KC102	'KC102'	1259 Yes	No	2019		5	
bp	North America	GOM-US	TIBER KC102	'KC102'	1259 Yes	No	2019		5	
Statoil	North Sea/Arctic	N Sea, Norway	AASTA HANSTEEN	'6707/10'	1275 No	Yes	2016	10/1/2011	5	

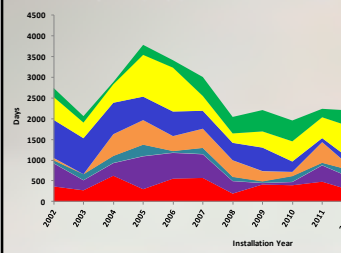
PIPELINE-LEVEL DATA

Description	Flowline Status	Internal Diameter	External Diameter	Length Km	Design	Flowline Export Type	Flowline Type	Flowline Start Date	Contractor	Barge	Offset From Host Km
ORQUIDEA VIOLETA PRODUCTION	Installing	10	14	21	Infield Flowline		Rigid steel	9/15/2012 Subsea 7	Seven Borealis		100
ORQUIDEA VIOLETA WATER INJ	Installing		10	33	Infield Flowline		Rigid steel	9/15/2012 Subsea 7	Seven Borealis		100
CRAVO LIRIO PRODUCTION	Installing	12	16	17	Infield Flowline		Rigid steel	9/15/2012 Subsea 7	Seven Borealis		100
CRAVO LIRIO WATER INJ	Installing		12	24	Infield Flowline		Rigid steel	9/15/2012 Subsea 7	Seven Borealis		100
GAS EXPORT	Installing	13	32	Export Pipeline		Gas	Rigid steel	9/15/2012 Subsea 7	Seven Borealis		100
MEG LINE	Installing	3	65	Infield Flowline			Rigid steel	7/1/2012 EMAS AMC	AMC Connector		3
CORROSION RESISTANT PIPE TO SHORE	Installing	30	65	Export Pipeline		Gas	Rigid steel	3/1/2012 ALLSEAS	SOLITAIRE		3
INFIELD BETWEEN MANIFOLDS	Installing	8	6	Infield Flowline			Rigid steel	1/1/2012 ALLSEAS	SOLITAIRE		3
Louisiana Deepwater Link 2	Flowing	18	5	Export Pipeline		Gas	Rigid steel	3/1/2006 ALLSEAS	SOLITAIRE		3
Louisiana Deepwater Link 1	Flowing	18	5	Export Pipeline		Gas	Rigid steel	3/1/2006 ALLSEAS	SOLITAIRE		3
Independence Trail Gas Export Line	Flowing	24	225	Export Pipeline		Gas	Rigid steel	4/15/2006 ALLSEAS	SOLITAIRE		3
Infield Flowlines	Discovery	12	60	Infield Flowline			Rigid steel	1/1/2019			
Oil Export	Discovery	20	65	Export Pipeline		Oil	Rigid steel	8/1/2018			
Infield Flowlines	Bidding	6	25	Infield Flowline			Rigid steel	4/1/2015			
Gas Export (NSG)	Bidding	34	480	Export Pipeline		Gas	Rigid steel	5/1/2014			
Multiphase Production Line (LAST 20)	Flowing	30	20	Infield Flowline		Gas	Rigid steel	7/31/2006 SAIPEM	\$7000		
Multiphase Production Line	Flowing	30	120	Infield Flowline		Gas	Rigid steel	5/30/2006 SAIPEM	\$7000		
30" Export	Flowing	30	33	Infield Flowline		Gas	Rigid steel	6/15/2005 ALLSEAS	SOLITAIRE		
MULTIPHASE PRODUCTION LINE (FIRST 100)	Flowing	30	100	Infield Flowline		Gas	Rigid steel	7/31/2006 Acergy	Acergy Falcon		
Glycol Template Tie-In	Flowing	6	3	Infield Flowline			Rigid steel	8/1/2006 Acergy	Acergy Falcon		
Glycol Line	Flowing	6	125	Infield Flowline			Rigid steel	4/15/2006 Acergy	Acergy Falcon		
Glycol Line	Flowing	6	125	Infield Flowline			Rigid steel	6/1/2006 Acergy	Acergy Falcon		
BRITPIPE GAS EXPORT	Flowing	42	230	Export Pipeline		Gas	Rigid steel	8/2/2006 ALLSEAS	SOLITAIRE		
FLOWLINE FROM MANIFOLD TO FPSO	FEED	8	3	Infield Flowline			Flexible	9/1/2016			
FEED	FEED	8	3	Infield Flowline			Flexible	9/1/2016			
FLOWLINE FROM MANIFOLD TO FPSO	FEED	8	3	Infield Flowline			Flexible	9/1/2016			
WATER INJ FLOWLINE FROM FPSO	FEED	8	3	Infield Flowline			Flexible	9/1/2016			
WATER INJ FLOWLINE FROM FPSO	FEED	8	3	Infield Flowline			Flexible	9/1/2016			
WATER INJ FLOWLINE FROM FPSO	FEED	8	3	Infield Flowline			Flexible	9/1/2016			
GAS INJECTION LINE	FEED	8	3	Infield Flowline			Flexible	9/1/2016			

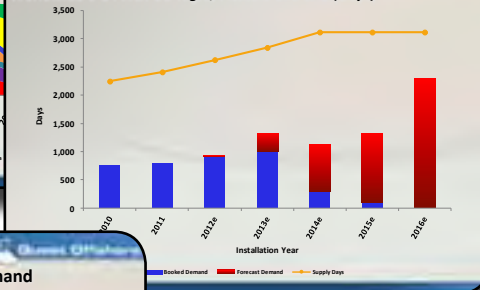
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Quest Marine Construction Vessels (QMCV/QCVS)

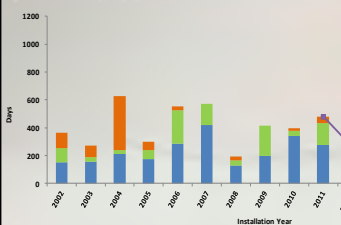
Global Marine Construction Total Demand
Worldwide Pipeline (Days)



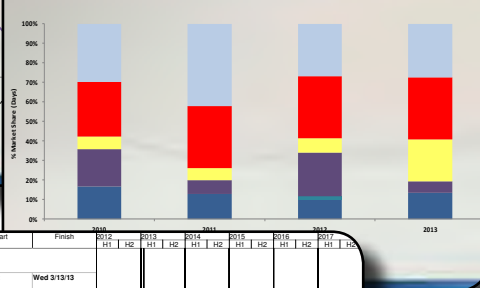
Global Marine Construction Supply Demand Balance
Worldwide 0-14 Inch OD Rigid, Flexible and SPU (Days)



Regional Marine Construction Booked Demand
Africa Medit. (Days)



Booked Days by Contractor – Deepwater Pipelay
Worldwide 2010-2013



QUEST CONSTRUCTION VESSEL SCHEDULE EXCERPT				Start	Finish	2012	2013	2014	2015	2016	2017
DEEPWATER PIPELAY						HT	HT	HT	HT	HT	HT
1	Group Service Petrolere SA (GSP)		285 days?	Fri 6/1/12	Wed 3/13/13						
2	GSP FALCON		285 days?	Fri 6/1/12	Wed 3/13/13						
3	Mobile to North Sea		20 days	Fri 6/1/12	Thu 6/21/12						
4	NSEA - Winterhall - Q4-C Platform		40.5 days	Sat 9/1/12	Thu 10/11/12						
5	Paranco - Leman Southwest		20 days	Mon 10/15/12	Sun 11/4/12						
6	IOLE/Stanley - Great Yarmouth, UK		1 day?	Tue 12/18/12	Wed 12/19/12						
7	ION EAP - Hunter		12 days	Fri 3/1/13	Wed 3/13/13						
8	Subsea 7		1385 days?	Sun 7/22/12	Sat 5/7/16						
9	SEVEN POLARIS		1385 days?	Sun 7/22/12	Sat 5/7/16						
10	Petrolere - SAPPHORA (FORMLY GUARA)		170.5 days	Sun 7/22/12	Tue 1/8/13						
11	Dry Dock for Maintenance		80 days	Sat 9/1/12	Wed 10/31/12						
12	Petrolere - Papa-Terra		90 days	Mon 10/1/12	Tue 12/30/12						
13	IOLE/Stanley - Cape Town, South Africa		1 day?	Tue 12/18/12	Wed 12/19/12						
14	SAME - Petrolere - Unit Oil Transfer and Export (UOTE)		23 days	Tue 1/15/13	Thu 2/7/13						
15	Bidding - Total - Dalia Ph. 3		25 days	Mon 4/1/13	Fri 4/26/13						
16	AFM - Total - Oton 2 - 1st Campaign (Pipelay)		90 days	Mon 7/1/13	Sun 9/29/13						
17	AFM - Total - Oton 2 - 2nd Campaign (Pipelay)		90 days	Tue 10/1/13	Mon 12/30/13						
18	Bidding - BP - Shah Deniz Ph. 2		85 days	Tue 4/1/14	Mon 6/25/14						
19	Bidding - Adx - Otilma		50 days	Sun 6/1/14	Mon 7/21/14						
20	Bidding - ExxonMobil - Erta North Phase 2		35 days	Mon 9/1/14	Mon 10/6/14						
21	Bidding - BP - Block 31 SE Phase 2		95 days	Sat 11/1/14	Wed 2/4/15						
22	Bidding - Tullow Oil Ghana Tweneboa		90 days	Sat 11/1/14	Fri 1/30/15						
23	Targeted - Chevron - Nisko		55 days	Fri 1/1/16	Tue 2/25/16						
24	Targeted - Chevron - Lucapa		65 days	Thu 3/3/16	Sat 5/7/16						

QUEST VESSEL FUNCTION DATABASE EXCERPT											
Contractor	Vessel Name	Vessel Category	Length (m)	Min Pipe Dia (in)	Mx Pipe Dia (in)	Tension Capacity (tonnes)	CRANE CAP (tonnes)	No Cranes	AHC	A&R (tonnes)	No Build Year
Allseas	Solitaire	DW PL	300.0	2	60	1050	850	3			1 1997
Helix	Caesar	DW PL	146.5	2	42	405	300	5		450	2007
Saipem	Castorone	DW PL	330.0		60	750	600	5	Yes	900	2 2012
Technip	Deep Blue	DW PL	206.5	4	28	770	400	3	Yes	150	2 2001
Technip	Global 1200	DW PL	162.3	4	60	640	1200	2		400	2011
Heerema	DCV Thialf	Heavy-Lift DCV	165.3			0	14200				1985
Subsea 7	Sapura 3000	Heavy-Lift DCV	151.2	4	60	400	3000	3		360	2 2007
Helix	Q4000	Intervention	95.2			725.74 (Riser Tension)	360	2			1 2002
Saipem	Castoro 7	Pipeline Trunkline	179.5	8	60	340	64.8	4		340	1975
CEONA	Giant 3	Reel Lay	184.0			550	400		Yes		2012
McDermott	North Atlantic 4000	Reel Lay	120.3	4	16	263.6	263.6		Yes		2012

QUEST VESSEL PLUS EXCERPT											
Vessel Category	Contractor	Vessel Name	Task Name	Duration	Start	Finish	Province	Operator	Status		
Deepwater Pipelay	Allseas	SOLITAIRE	Chevron - Gorgon/Janz - 1st Campaign	55 days	1/1/2012	2/25/2012	Australia	Chevron	Booked		
Deepwater Pipelay	Allseas	SOLITAIRE	NSEA - Total - Laggan-Tormore	53 days	4/15/2012	6/7/2012	West of Shetlands	Total	Booked		
Deepwater Pipelay	Allseas	SOLITAIRE	South Africa Campaign - Shallow water	30 days	10/1/2012	10/31/2012	South Africa		Booked		
Deepwater Pipelay	Allseas	SOLITAIRE	Chevron - Gorgon/Janz - 2nd Campaign	64 days	4/1/2013	6/4/2013	Australia	Chevron	Booked		
Deepwater Pipelay	Allseas	SOLITAIRE	Bidding - NAME Williams - Tubular Bells Hub	100 days	4/15/2013	7/24/2013	GOM-US	Hess	Bidding		
Deepwater Pipelay	Allseas	SOLITAIRE	Bidding - Chevron - Rosebank / Lochnagar	75 days	7/24/2013	10/7/2013	West of Shetlands	Chevron	Booked		
Deepwater Pipelay	Allseas	SOLITAIRE	NSEA - Total - Laggan-Tormore	53 days	9/1/2013	10/24/2013	West of Shetlands	Total	Booked		
Deepwater Pipelay	Allseas	SOLITAIRE	Shell - MARS South Mini-Hub Olympia Option	29 days	10/1/2013	10/30/2013	GOM-US	Royal Dutch/Shell	Booked		
Deepwater Pipelay	Allseas	SOLITAIRE	Bidding - NAME Williams - Tubular Bells Hub	100 days	10/8/2013	1/15/2014	GOM-US	Hess	Bidding		
Deepwater Pipelay	Allseas	SOLITAIRE	Enterprise - Anadarko/ExxonMobil - GoM Luci	82 days	11/1/2013	1/22/2014	GOM-US	Anadarko Petroleum	Booked		
REEL LAY	Subsea 7	SEVEN SEAS	Chevron - Gorgon/Janz - 2nd Campaign	161 days	12/15/2012	5/25/2013	Australia	Chevron	Booked		
REEL LAY	Subsea 7	SEVEN SEAS	Statol - Svalin C Field	30 days	5/4/2013	5/31/2013	N Sea, Norway	Statol	Booked		
REEL LAY	Subsea 7	SEVEN SEAS	NSEA - Total - Laggan Tormore - Phase 2	48 days	8/1/2013	9/18/2013	West of Shetlands	Total	Booked		
REEL LAY	Subsea 7	SEVEN SEAS	Bidding - ENI WAFM Angola Western Hub (SBF)	58 days	12/16/2013	2/12/2014	Angola	Eni	Bidding		
REEL LAY	Subsea 7	SEVEN SEAS	Bidding - Husky - Liuhua 29-1	100 days	10/1/2014	1/9/2015	China	Husky Oil	Bidding		

STRATEGIC VALUE

- Provides global insight into supply and demand dynamics of major marine construction assets
- Illustrates vessel-by-vessel schedule for over 125 assets of booked and bidding construction work
- Details strategic installation and construction capabilities of a wide range of marine assets

QMCV / QCVS Deliverables

- Quest Construction Vessel Schedule in MS Project and PDF (QCVS)
- Quest Construction Vessel Schedule PLUS (MS Excel)
- Quarterly Market Overview of key trends and forecasts (MS PowerPoint)
- Quarterly deliverable of the Quest Vessel Function Database (MS Excel)

QMCV / QCVS Outline

Construction Vessel Schedule (MS-Project or PDF format)

- Details over 125 vessels' current commitments and schedule and includes detailed information on project, timing and scope of work
- Shows potential installation opportunities

Construction Vessel Schedule PLUS (MS Excel)

- Combines data from Quest Construction Vessel Schedule with high level fields from the Quest Enhanced Deepwater Database
- Allows analysis to be performed around installation trends at the vessel, owner, and capability level due to the user friendliness of MS Excel

Market Report Overviews

- Global Marine Construction Supply and Demand Balance
- Marine Contractor Market Share
- Global Marine Construction Booked Demand – Installation Days
- Historical Utilization by vessel category

Quest Vessel Function Database (QVFDB)

- Includes high level vessel specifications for each vessel tracked in the Quest Construction Vessel Schedule and more (details over 200 vessels)

Quest Floating Production Database (QFPD)

STRATEGIC VALUE

- Leading indicator of significant global deepwater development activity and investment
- Analyzes the global market for floating production demand in terms of volume and value (US\$MM)
- Breaks demand into specific FPS type (FPSO, SPARS, TLP, FLNG, Semi-Submersibles)
- Breaks demand into region
- Provides key historic market share analysis by shipyards and FPS owner

QFPD Deliverables

- ▶ Market Overview in MS PowerPoint of key trends and forecasts
- ▶ Full working files in MS Excel supporting Market Overview
- ▶ Full downloads of historic and forecast floating production database

QFPD Outline

Executive Overview

- Changes from Previous Forecast
- Award vs. Startup Trends by Hemisphere

Floating Production System Forecast

- Base, Mean and High Case Forecasts by Award and Startup Year
- By Hemisphere
- By Type
- In Volume of Units and Value (US\$)
- Top Operators

Floating Production System Historical Review

- Market Share Analysis
- By Type
- Hull Fabrication
- Topsides Fabrication
- In Volume of Units and Metric Tons

Floating Production System Analysis

- Availability of Leased FPSO's and FSO's
- FPSO Leasing Market Share
- FPSO Newbuild vs. Conversion Analysis

PROJECT-LEVEL DATA

Operator	Hemisphere	Province	Project Name	Water Depth Mtr	Startup Year
INPEX	Asia Pacific/Middle East	Indonesia	ABADI GAS FIELD FLNG PHASE 1 (MASELA BLOCK)	500	2017
Ithaca Energy	North Sea/Arctic	N Sea, UK	ATHENA/ATHENA EAST 14/18b (BW ATHENA FPSO)	136	2012
bp	North America	GOM-US	ATLANTIS/ATLANTIS SOUTH	2156	2007
Woodside Petroleum	Asia Pacific/Middle East	Australia	BROWSE PROJECT PHASE 1 LNG	400	2017
Woodside Petroleum	Asia Pacific/Middle East	Australia	BROWSE PROJECT PHASE 1 LNG	400	2017
Cobalt International Energy	Africa/Medit.	Angola	CAMEIA BLOCK 21 PRE-SALT	1525	2016
Eni	North Sea/Arctic	Barents Sea	GOLIAT 7122/7	341	2014

FPS-LEVEL DATA

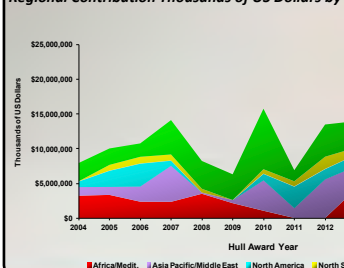
FPS Type	Hull Status	FPS Owner	Prod Cap Oil (BOPD)	Prod Cap Gas (MMCPD)	Prod Cap Water (BWPD)	Storage Capacity (Bbls)	Surface Well Count	Mooring Type
FLNG	FEED	BW Offshore	40000	180		50000		Turret-Submerged
FPSO	Flowing		200000					Spread/Wire Chain
FPS-Semi	Flowing							10 Spread/Wire Chain
WTLP	Bidding							10 Spread/Wire Chain
WTLP	Bidding							10 Spread/Wire Chain
FPSO	FEED							Spread/Wire Chain
FPSO ROUNDSHIP	Pending/Construction		100000			950000		6 Spread/Poly Chain
Spar	Conceptual							

CONSTRUCTION-LEVEL DATA

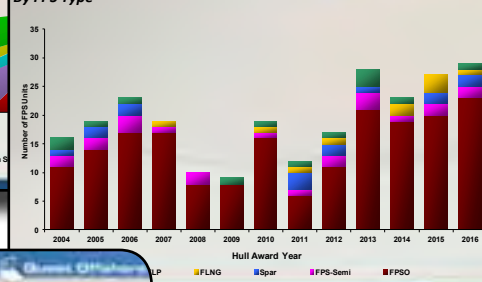
EPC Contractor	Hull Award Date	Hull Designer	Hull Fabricator	Hull Fabricator Shipyard	Topsides Designer	Topsides Fabricator	Topsides Fabricator Shipyard
BW Offshore	1/1/2014		Langstein Shipyard			Langstein Shipyard	
Daewoo Shipbuilding	11/18/2005	6/15/2002 HALIBURTON GVA	Daewoo Shipbuilding		J Ray McDermott	J Ray McDermott	Morgan City, LA
	3/1/2013						
	3/1/2013						
	9/1/2013						
	3/1/2010	Sevan Marine	Hyundai(HHI)		Sevan Marine	Hyundai(HHI)	
	1/1/2015						
	6/1/2011	SBM	Drydock World Dubai	Dubai, UAE		Drydock World Dubai	

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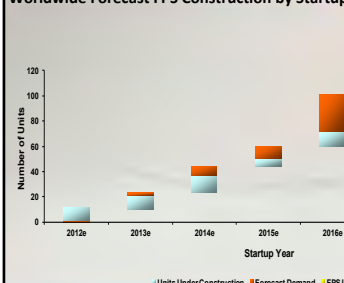
Worldwide Forecast FPS Spending by Year (Mean Case)
Regional Contribution Thousands of US Dollars by FPS Award Year



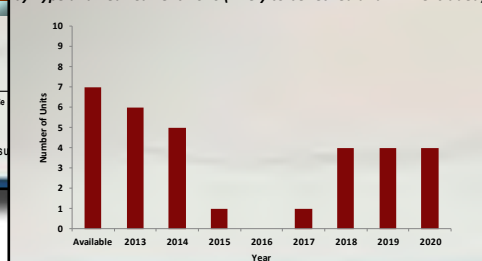
Worldwide FPS Awards 2004 (A) – 2016 (e) Mean Case
By FPS Type



Worldwide Forecast FPS Construction by Startup Year 2012-2016e

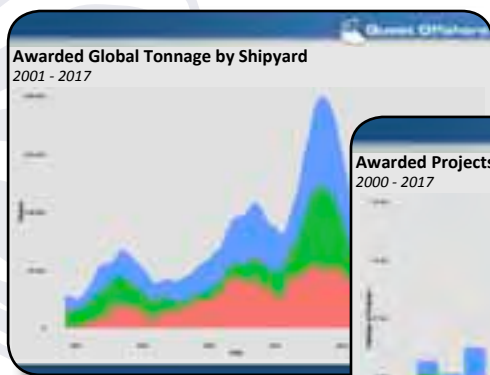
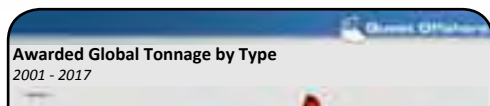


Forecasted Off Contract FPS Leased Fleet Availability
by Type and Year Current-2020 (Likely to be retired and EWT excluded)



Quest O

Quest Deepwater Shipyard Outlook (QDSO)



CONSTRUCTION-LEVEL DETAILS										
Start Quarter	Start Year	Delivery Quarter	Delivery Year	Yard QTRs	Book Quarter	Book Year	Book Total QTRs	Design	Notes	
1	2007	4	2009	12				Aker	Integration at Aker Stord	
1	2007	1	2009	9				Modex Owned	1.6M Storage	
3	2007	1	2009	7				Modex Owned	100kboe/d 124mmsc/d Capacity - 21 Modules	
3	2004	2	2006	8	1	2004	10	F&G JU2000E	9/2/04 Steel - 6/6/06 Delivery	
3	2004	2	2006	8	1	2004	10	F&G JU2000E	9/2/04 Steel - 6/6/06 Delivery	
4	2005	4	2007	9	2	2005	11		10/9/05 Steel Cut - 10/2/07 Delivery. 2.15M Storage	
4	2005	4	2007	9	2	2005	11	Alliance Engineering	10/9/05 Steel Cut - 10/2/07 Delivery. 250mboe/d & 450mmsc/d Capacity	
3	2011	4	2012	6	4	2010	9	Floatec ABB Lummus	eTLP - Steel cut 7/25/2011. Keel Laying 3/21/2012. Hull Cost only.	
2	2013	1	2014	4	3	2012	7		1.9BN for 2WHP + LQ + CPF	
2	2013	1	2014	4	3	2012	7		1.9BN for 2WHP + LQ + CPF	
4	2006	1	2009	10				SBM Owned - 1.5M Storage		

CONSTRUCTION-LEVEL DETAILS										
Start Quarter	Start Year	Delivery Quarter	Delivery Year	Yard QTRs	Book Quarter	Book Year	Book Total QTRs	Design	Notes	
1	2007	4	2009	12				Aker	Integration at Aker Stord	
1	2007	1	2009	9				Modex Owned	1.6M Storage	
3	2007	1	2009	7				Modex Owned	100kboe/d 124mmsc/d Capacity - 21 Modules	
3	2004	2	2006	8	1	2004	10	F&G JU2000E	9/2/04 Steel - 6/6/06 Delivery	
3	2004	2	2006	8	1	2004	10	F&G JU2000E	9/2/04 Steel - 6/6/06 Delivery	
4	2005	4	2007	9	2	2005	11		10/9/05 Steel Cut - 10/2/07 Delivery. 2.15M Storage	
4	2005	4	2007	9	2	2005	11	Alliance Engineering	10/9/05 Steel Cut - 10/2/07 Delivery. 250mboe/d & 450mmsc/d Capacity	
3	2011	4	2012	6	4	2010	9	Floatec ABB Lummus	eTLP - Steel cut 7/25/2011. Keel Laying 3/21/2012. Hull Cost only.	
2	2013	1	2014	4	3	2012	7		1.9BN for 2WHP + LQ + CPF	
2	2013	1	2014	4	3	2012	7		1.9BN for 2WHP + LQ + CPF	
4	2006	1	2009	10				SBM Owned - 1.5M Storage		

Excel Tables Do Not Contain All Available Data Fields

STRATEGIC VALUE

- Illustrates supply and demand profiles of major shipyards serving the offshore oil & gas market
- Analyzes historic and forecast construction of FPS systems, drilling rigs, fixed platforms, marine construction assets and onshore modules
- Identifies potential future capacity constraints within major shipyards and sectors
- Outlines construction schedule within each major shipyard

QDSO Deliverables

- ▶ Quarterly delivery of Master Shipyard Backlog file (MS Excel)
- ▶ Semi-annual delivery of Market Overview of key trends and forecasts (MS PowerPoint)

QDSO Outline

Companies Included:

- Samsung Heavy Industries (SHI), Daewoo Shipbuilding & Marine Engineering (DSME), Hyundai Heavy Industries (HHI), Sembcorp, Keppel Offshore & Marine, Kiewit, Gulf Island Fabrication, McDermott, Lamprell, MMHE/MHB, Aker, Technip, as well as Chinese and Brazilian yards

Shipyard Tonnage by Awarded Projects

- Project by project timing and build analysis broken up by individual shipyards and combined into a forecast of tonnage throughput and capacity utilization

Shipyard Tonnage Forecast

- Quest forecasts future demand outside of awarded projects by taking into account shipyard histories, known projects, location, timing, and other market driving factors

Shipyard Financial & Macro Overview

- Analysis focused on changing margins, backlogs, and new orders
- Illustrations of macro shipyard drivers such as; container ship indexes, steel price indexes, and oil prices

Market Share Analysis by Shipyard

- Total tonnage analysis
- Project scope and type analysis

ffshore



Quest Offshore

**QUEST OFFSHORE RESOURCES IS YOUR SOURCE
FOR *STRATEGIC INSIGHT* ON THE
GLOBAL DEEPWATER OIL AND GAS INDUSTRY.**

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Quest Offshore is a leading provider of industry analysis, tactical data, news, influential market intelligence reports, consulting and technical conferences to the offshore oil and gas industry. Our niche canvasses subsea technology, FPS fabrication, umbilicals, riser & flowlines, and marine construction segments globally.

