

# Deep & Ultra-deepwater Market Update 2009/13

The Fifth Edition of the Global Perspectives Deep & Ultra-deepwater Market Report, published by Infield Energy Analysts, provides an in-depth independent forecast and analysis of the global deepwater and ultra-deepwaters sectors. The reports covers all of the major sectors; platforms, subsea, pipelines and control lines, worldwide.

The Deepwater Arena:

Recent years have seen the growth and formalisation of the global deepwater offshore industry. A process that has been driven by increased energy demand stemming from consecutive years of economic growth, the maturing of established hydrocarbon extraction basins, and a growing battle to overcome depleting reserves. Such factors have encouraged operators to invest billions annually chasing this offshore frontier, and across this report we see very few market segments associated with deepwater production not seeing upwards potential.

Despite these positive outlooks, bubbling under the surface a number of issues threaten to combine to derail the deepwater epoch. Writing in the context of a severe global economic downturn, with OPEC having reduced production, and oil price at a twenty month low, we are starting to approach the uppermost boundaries of project sanction, which even the least conservative of operators rarely raised beyond \$60 a barrel.

With the profit margins on fields becoming tighter, issues such as dayrates for drilling rigs and specialist vessels, which soared with oil price, are now starting to restrain certain activities. Personnel and staffing too is becoming problematic for both contractors and operators alike, as the industry as a whole witnesses a ramping up in activity levels. Add to this issues of local content for those involved in plays away from the US GoM and NWECS, and we can see that this burgeoning industry is one currently under considerable pressure.

Given the context of a rapidly changing and unsettled business environment, it is now more necessary than ever before to have a reliable source of future market information. This is no time for an extrapolation of historic trends. With all our forecasts built from the bottom upwards, with genuine, up to date project information underpinning every market segment, this fifth edition of the Deep and Ultra-deep Market Update 2009/13 maintains Infield Systems' position as the leading supplier of offshore forecasts, commentary and analysis to operators, contractors, and financial institutions alike.

Further, by gaining 12 months access to our once weekly updated databases, the purchaser can ensure that they have their fingers on the pulse of the deepwater industry over this challenging period.

Who is buying Infield Publications?

Organisations purchasing reports from the Global Perspective Market Update and Technology & Projects Reports range from fully integrated oil companies, national oil companies, contractors, service and supply companies, manufacturers and industry consultants located in over 40 countries worldwide. The reports are used by senior management, industry and financial analysts and consultants

Please note report images are low resolution for inclusion in this brochure

Why you should buy this report:

- Infield's modelling process, OFFPEX, is based upon a unique "bottom up approach". The component by component, project by project process is robust and has a proven track record
- The report contains the latest information on the probable impact of the current economic circumstances on the offshore oil and gas sector
- It is an independent and up-to-the minute analysis of the rapidly changing and dynamic deep and ultra-deepwater sector
- Utilise the Infield five year forecast for strategic decision making
- Compare and contrast the current forecast with the previous edition to providing a greater understanding of the modelling process and identify the market drivers and dynamics of this sector
- Appraise region by region, country by country, sector by sector capital expenditure and project numbers for each of the elements within the deep and ultra-deepwater market; platforms, subsea developments, pipelines and control lines

Report Contents

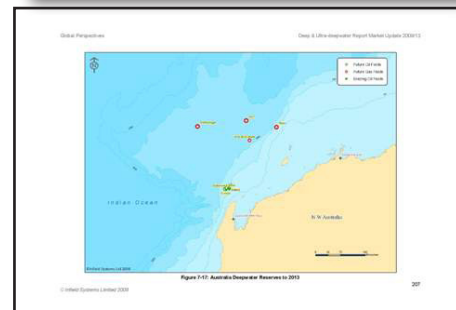
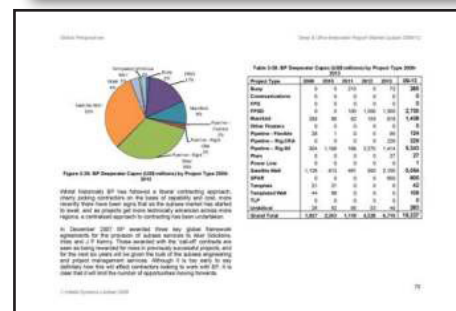
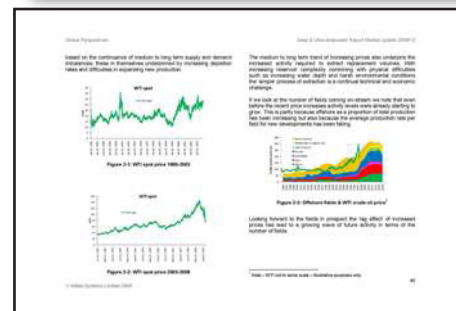
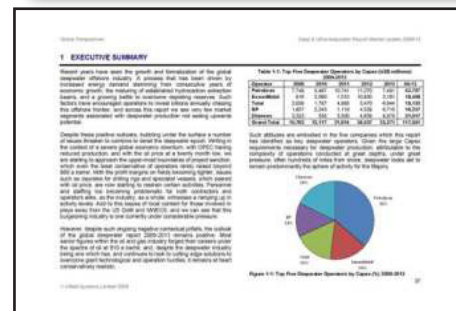
- **Executive Summary** provides a comprehensive executive overview of the complete market sector
- **Global Market Context** reviews the drivers behind the deepwater business including such issues as the current credit market turmoil, oil price level and its effect on activity, primary energy consumption, analysis of proved oil and gas reserves and oil and gas production, offshore versus onshore market overview and the major supply constraints facing the industry
- **Global Deepwater Business Overview** is a new section designed to provide the reader with a clear understanding of the key operators and contractors in the deepwater arena over the period 2004/13 with a particular focus on the subsea tree, leased FPSO and specialist vessel market
- **Regional Analysis & Forecasts** for each region (Africa, Asia, Australasia, Europe, Latin America, Middle East & Caspian and North America) analysis is provided by country and sector for platforms, subsea, pipelines and control line
- **Sector Analysis & Forecasts** Detailed forecasts are provided by the four market sectors; platforms, subsea, pipelines and control lines
- **Global Forecasts Comparison** provides a comparative analysis of the 2009 edition global forecasts with previous edition to give the reader a greater understanding of the modelling system and the dynamics of the deepwater business
- **Regional & Sector Maps** provides the reader with a unique visual overview of all deepwater regions, reserves, production, platforms and pipelines



## GLOBAL PERSPECTIVES

### Deep & Ultra-deepwater Market Update 2009/13

infield  
THE ENERGY ANALYSTS



## Searchable Online Projects Database

Purchasers of the Global Perspectives Deep and Ultra-deepwater Market Update will receive 12 months' free access to an online database of fields in water depths of 500 metres and greater being planned or considered for development from 2009 through to 2013, worldwide. Details about each project include:

- Field Operator
- Project Name
- Development Type
- Year On Stream
- Date Discovered
- Depletion Date
- Reserves
- Field Production Rates
- Location
- Development Type
- Water Depths
- Project Status
- Numbers of Subsea Wells
- High Temperature / High Pressure

Subscriptions can be upgraded to include other deepwater and shallow water fields or other data sets from the Infield Offshore Energy Database.

## The Infield Energy Analysts

Infield is an independent energy research and analysis organisation that is dedicated to the provision of accurate and up-to-date data, market sector reports, mapping, analysis and forecasts to the offshore oil and gas and associated marine industries. Infield services clients in over 40 countries from a wide range of organisations including E&P companies, contractors, manufacturers, government agencies and the financial community. Infield is widely acknowledged as the definitive independent information resource and has been involved in many US\$bn of merger, acquisition and transaction market due diligence.

### Other Global & Regional Perspectives Reports:

- Deep & Ultra-deepwater Technologies & Projects
- Pipelines & Control Lines Market Update
- Fixed Platforms Market Update
- Subsea Market Update
- Floating Production Market Update
- Specialist Vessels Market Update\*
- LNG / GTL Market Update\*
- Asia Pacific Market Update

\*Available 2009

## Offshore Energy Database

The Infield Worldwide Offshore Database provides detailed and up to date information about all offshore fields, worldwide. The earliest project on Infield is Bibi Eibat which came on stream in 1923 in Azerbaijan. The furthest ahead are decommissioning projects not expected to proceed for several decades.

Infield comprises 8,450 offshore fields in 127 countries, involving over 700 operators and more than 1,100 participant companies. Infield is updated daily so clients can expect to be kept informed of new information as and when it happens.

- Fixed Platforms
- Floating Production Systems
- Subsea Trees, Manifolds & Templates
- Trunk Lines, Pipelines Flexible Flowlines
- Control Lines & Umbilicals
- Single Point Moorings
- Specialist Vessels
- Field Operators & Field Ownership
- FPSO Owners
- Manufacturers

# Order Form

To secure your copy of The Global Perspectives Deep & Ultra-deepwater Market Update 2009/13, please complete the order form below or buy online at [www.infieldlive.com](http://www.infieldlive.com). Infield Systems Limited accepts payment by bank transfer, credit card (Visa, MasterCard or American Express) or by cheque. Delivery is upon receipt of payment. For credit card purchases please supply the billing address.

Multiple copy discount and corporate wide licences are available; please contact a member of the Infield Team for details.

By purchasing this document, your organisation agrees that it will not copy or allow to be copied in part or whole or otherwise circulated in any form any of the contents without prior written and specific permission from Infield Systems Limited. Our standard terms and conditions are available either upon request or at [www.infieldlive.com](http://www.infieldlive.com).

Please supply the Deep & Ultra-deepwater Market Update Report 2009/13 to my organisation for £2,200.00, excluding delivery (Printed Report delivery to the UK is £12.00, delivery outside UK is £65.00 by DHL). I have read and fully understand the terms and conditions of sale located at [www.infieldlive.com](http://www.infieldlive.com).

<b>Name:</b>		<b>Card Type:</b>	<b>MasterCard / Visa / Amex</b>
<b>Company Name:</b>		<b>Card Number:</b>	
<b>Delivery Address &amp; Post/Zip Code:</b>		<b>Expiry Date:</b>	
		<b>Security Code:</b>	
<b>Card Billing Address &amp; Post/Zip Code:</b>		<b>EU Vat Number:</b>	
		<b>Signature:</b>	
<b>Tel:</b>			
<b>Fax:</b>			
<b>Email:</b>			

## CONTENTS LIST

1	EXECUTIVE SUMMARY .....	26
2	GLOBAL MARKET CONTEXT .....	35
2.1	INTRODUCTION .....	35
2.2	CREDIT MARKET TURMOIL .....	35
2.3	OIL PRICE & ACTIVITY .....	37
2.4	PRIMARY ENERGY CONSUMPTION .....	40
2.5	PROVED OIL & GAS RESERVES.....	42
2.6	OIL & GAS PRODUCTION .....	43
2.7	OFFSHORE MARKET OVERVIEW .....	44
2.8	SUPPLY CONSTRAINTS.....	46
3	GLOBAL DEEPWATER BUSINESS OVERVIEW.....	48
3.1	OVERVIEW – DEMAND ANALYSIS .....	48
3.2	PETROBRAS .....	52
3.3	EXXONMOBIL .....	57
3.4	TOTAL .....	62
3.5	BP .....	67
3.6	CHEVRON .....	71
3.7	OVERVIEW – SUPPLY SIDE ANALYSIS .....	76
3.8	SUPPLY OF FPSO'S .....	77
3.9	SUPPLY OF SUBSEA WELLS.....	81
3.10	INSTALLATION VESSEL AVAILABILITY .....	85
4	REGIONAL ANALYSIS & FORECASTS.....	87
4.1	OVERVIEW .....	87
4.2	AFRICA .....	88
4.2.1	Overview .....	88
4.2.2	Prospectivity Analysis.....	89
4.2.3	Operators .....	92
4.2.4	Platforms .....	94
4.2.5	Subsea .....	96
4.2.6	Pipelines.....	98
4.2.7	Control Lines .....	100
4.3	ASIA.....	103
4.3.1	Overview .....	103
4.3.2	Prospectivity Analysis.....	104
4.3.3	Operators .....	107
4.3.4	Platforms .....	108
4.3.5	Subsea .....	111

4.3.6	Pipelines.....	112
4.3.7	Control Lines.....	114
4.4	AUSTRALASIA.....	116
4.4.1	Overview.....	116
4.4.2	Prospectivity Analysis.....	116
4.4.3	Operators.....	117
4.4.4	Platforms.....	119
4.4.5	Subsea.....	120
4.4.6	Pipelines.....	120
4.4.7	Control Lines.....	121
4.5	EUROPE.....	122
4.5.1	Overview.....	122
4.5.2	Prospectivity Analysis.....	123
4.5.3	Operators.....	124
4.5.4	Platforms.....	125
4.5.5	Subsea.....	126
4.5.6	Pipelines.....	127
4.5.7	Control Lines.....	129
4.6	LATIN AMERICA.....	131
4.6.1	Overview.....	131
4.6.2	Prospectivity Analysis.....	132
4.6.3	Operators.....	133
4.6.4	Platforms.....	135
4.6.5	Subsea.....	137
4.6.6	Pipelines.....	138
4.6.7	Control Lines.....	140
4.7	MIDDLE EAST & CASPIAN.....	142
4.7.1	Overview.....	142
4.7.2	Prospectivity Analysis.....	143
4.7.3	Operators.....	143
4.7.4	Subsea.....	144
4.7.5	Pipelines.....	145
4.7.6	Control Lines.....	146
4.8	NORTH AMERICA.....	147
4.8.1	Overview.....	147
4.8.2	Prospectivity Analysis.....	148
4.8.3	Operators.....	150
4.8.4	Platforms.....	152
4.8.5	Subsea.....	154
4.8.6	Pipelines.....	156
4.8.7	Control Lines.....	157
5	SECTOR ANALYSIS & FORECASTS.....	159
5.1	INTRODUCTION.....	159

5.2	PLATFORMS .....	161
5.3	SUBSEA.....	165
5.3.1	<i>Subsea by Region</i> .....	165
5.3.2	<i>Subsea Wells</i> .....	166
5.4	PIPELINES.....	169
5.4.1	<i>Pipelines by Region</i> .....	169
5.4.2	<i>Pipelines by Water Depth</i> .....	171
5.5	CONTROL LINES .....	174
5.5.1	<i>Control Lines by Region</i> .....	174
5.5.2	<i>Control Lines by Water Depth</i> .....	176
6	APPENDICES & NOTES.....	179
6.1	DEFINED REGIONS/COUNTRIES LIST.....	179
6.2	GLOSSARY, ACRONYMS & ABBREVIATIONS.....	180
6.3	GLOBAL FORECASTS COMPARISON .....	181
6.3.1	<i>Introduction</i> .....	181
6.3.2	<i>Forecast Methodology</i> .....	181
6.4	FORECAST COMPARISON 2008 vs. 2007 .....	182
6.5	PRODUCTION MAPS .....	187
6.6	RESERVE MAPS .....	198
6.7	PLATFORM MAPS.....	209
6.8	SUBSEA MAPS.....	216
6.9	PIPELINE MAPS .....	220
6.10	NOTES .....	227

## LIST OF FIGURES

Figure 1-1: Top Five Deepwater Operators by Capex (%) 2009-2013 .....	26
Figure 1-2: Leased FPSO's (No.s) in deepwater 1997-2012.....	27
Figure 1-3: Deepwater Subsea Wells (No's) by Manufacturer 2004-2013 .....	28
Figure 1-4: Global Subsea Capex (US\$ millions) by Region 2004-2013.....	28
Figure 1-5: Deepwater Specialist Vessel Unfulfilled Demand Days (No's) 2004-2013.....	29
Figure 1-6: Global Pipeline Capex (US\$ millions) by Region 2004-2013 .....	29
Figure 1-7: Global Control Line Length (km) by Region 2004-2013 .....	29
Figure 1-8: Global Control Line Capex (%) by WD Range 2009-2013 .....	30
Figure 1-9: Global Platform Installations by Region 2004-2013 .....	30
Figure 1-10: Global Deepwater Capex by Region (US\$ millions) 2004-2013.....	31
Figure 1-11: Asia Deepwater Capex by Data Set (US\$ millions) 2004-2013 .....	31
Figure 1-12: Africa Deepwater Capex by Data Set (US\$ millions) 2004-2013 .....	31
Figure 1-13: Latin America Deepwater Capex by Data Set (US\$ millions) 2004-2013 .....	32
Figure 1-14: North America Deepwater Capex by Data Set (US\$ millions) 2004-2013 .....	32
Figure 1-15: Europe Deepwater Capex by Data Set (US\$ millions) 2004-2013.....	33
Figure 1-16: Australasia Deepwater Capex by Data Set (US\$ millions) 2004-2013.....	33
Figure 1-17: Middle East and Caspian Deepwater Capex by Data Set .....	33
Figure 2-1: WTI spot price 1986-2003.....	38
Figure 2-2: WTI spot price 2003-2008.....	38
Figure 2-3: Offshore fields & WTI crude oil price.....	38
Figure 2-4: Offshore platforms & WTI crude oil price .....	39
Figure 2-5: Subsea Units 1960-2014 .....	39
Figure 2-6: Primary energy consumption 1965 – 2007 – by region.....	40
Figure 2-7: Primary energy consumption 2007 – by fuel.....	40
Figure 2-8: Proved oil reserves 1987 – 2007 – by region.....	42
Figure 2-9: Proved gas reserves 1987 – 2007 – by region.....	42
Figure 2-10: Oil production 1965 – 2007 – by region .....	43
Figure 2-11: Gas production 1970 – 2007 – by region .....	43
Figure 2-12: Offshore reserves 1923-2014 – by region.....	44
Figure 2-13: Offshore reserves 1998-2014 – by type.....	44
Figure 2-14: New production capacity (BPDE) – by type .....	45
Figure 2-15: New production capacity (BPDE) – by region .....	45
Figure 2-16: Map of future oil & gas fields.....	45
Figure 2-17: Global construction/fabrication supply/demand.....	46
Figure 2-18: Specialist vessel supply/demand dynamics 2003-2012.....	46
Figure 3-1: Top Five Deepwater Operators by Capex (US\$ millions) 2004-2013 .....	49
Figure 3-2: Top Five Deepwater Operators by Capex (%) 2009-2013 .....	49
Figure 3-3: Top Five Deepwater Operators by Reserves (mmbbl) 2004-2013.....	50
Figure 3-4: Top Five Deepwater Operators by Reserves (mmbbl) 2009-2013.....	50
Figure 3-5: Top Ten Deepwater Operators by Production (BPDE 000s) 2004-2013.....	51

Figure 3-6: Top Ten Deepwater Operators by Production (BPDE 000s) 2009-2013.....	51
Figure 3-7: Petrobras Deepwater Capex (US\$ millions) by Region 2004-2013 .....	53
Figure 3-8: Petrobras Deepwater Capex (US\$ millions) by Region 2009-2013 .....	53
Figure 3-9: Petrobras Deepwater Capex (US\$ millions) by Data Set 2004-2013.....	54
Figure 3-10: Petrobras Deepwater Capex (US\$ millions) by Data Set 2009-2013.....	54
Figure 3-11: Petrobras Deepwater Capex (US\$ millions) by Project Type 2004-2013.....	55
Figure 3-12: Petrobras Deepwater Capex (%) by Project Type 2009-2013 .....	56
Figure 3-13: ExxonMobil Deepwater Capex (US\$ millions) by Region 2004-2013 .....	58
Figure 3-14: ExxonMobil Deepwater Capex (%) by Region 2009-2013 .....	58
Figure 3-15: ExxonMobil Deepwater Capex (US\$ millions) by Data Set 2004-2013.....	59
Figure 3-16: ExxonMobil Deepwater Capex (%) by Data Set 2009-2013.....	59
Figure 3-17: ExxonMobil Deepwater Capex (US\$ millions) by Project Type 2004-2013.....	60
Figure 3-18: ExxonMobil Deepwater Capex (%) by Project Type 2009-2013 .....	61
Figure 3-19: Total Deepwater Capex (US\$ millions) by Region 2004-2013 .....	62
Figure 3-20: Total Deepwater Capex (%) by Region 2009-2013.....	63
Figure 3-21: Total Deepwater Capex (US\$ millions) by Data Set 2004-2013 .....	63
Figure 3-22: Total Deepwater Capex (%) by Data Set 2009-2013 .....	64
Figure 3-23: Total Deepwater Capex (US\$ millions) by Project Type 2004-2013 .....	65
Figure 3-24: Total Deepwater Capex (%) by Project Type 2009-2013 .....	65
Figure 3-25: BP Deepwater Capex (US\$ millions) by Region 2004-2013 .....	67
Figure 3-26: BP Deepwater Capex (US\$ millions) by Region 2009-2013 .....	68
Figure 3-27: BP Deepwater Capex (US\$ millions) by Data Set 2004-2013.....	68
Figure 3-28: BP Deepwater Capex (%) by Data Set 2009-2013 .....	69
Figure 3-29: BP Deepwater Capex (US\$ millions) by Project Type 2009-2013 .....	70
Figure 3-30: BP Deepwater Capex (US\$ millions) by Project Type 2004-2013 .....	71
Figure 3-31: Chevron Deepwater Capex (US\$ millions) by Region 2004-2013 .....	72
Figure 3-32: Chevron Deepwater Capex (%) by Region 2009-2013.....	73
Figure 3-33: Chevron Deepwater Capex (US\$ millions) by Data Set 2004-2013.....	73
Figure 3-34: Chevron Deepwater Capex (%) by Data Set 2009-2013 .....	74
Figure 3-35: Chevron Deepwater Capex (US\$ millions) by Project Type 2004-2013.....	75
Figure 3-36: Chevron Deepwater Capex (US\$ millions) by Project Type 2009-2013.....	76
Figure 3-37: Leased FPSO's (No.s) in deepwater 1997-2012.....	77
Figure 3-38: Leased FPSOs (No.s) in deepwater 1997-2012 by Owner .....	78
Figure 3-39: Leased FPSOs (%) in deepwater 2004-2008 by Owner .....	78
Figure 3-40: Leased FPSOs (%) in deepwater 2009-2014 by Owner .....	78
Figure 3-41: Leased FPSOs (No.s) in deepwater 1997-2012 by Operator.....	79
Figure 3-42: Leased FPSOs (%) in deepwater 2004-2008 by Operator.....	79
Figure 3-43: Leased FPSOs (%) in deepwater 2009-2013 by Operator.....	80
Figure 3-44: Deepwater Subsea Wells (No's) by Manufacturer 2004-2013 .....	81
Figure 3-45: Aker Solutions deepwater Subsea Wells (No's) by Operator 2004-2013 .....	81
Figure 3-46: Aker Solutions deepwater Subsea Wells (No's) by Region 2004-2013.....	82
Figure 3-47: FMC Subsea Wells (No's) by Operator 2004-2013.....	82
Figure 3-48: FMC Subsea Wells (No's) by Region 2004-2013.....	83
Figure 3-49: Vetco Subsea Wells (No's) by Operator 2004-2013 .....	83

Figure 3-50: Vetco Subsea Wells (No's) by Region 2004-2013 .....	83
Figure 3-51: Cameron Subsea Wells (No's) by Operator 2004-2013 .....	84
Figure 3-52: Cameron Subsea Wells (No's) by Region 2004-2013 .....	84
Figure 3-53: Deepwater Specialist Vessel Unfulfilled Demand Days (No's) 2004-2013 .....	85
Figure 4-1: Graphical Illustration of Defined Regions .....	87
Figure 4-2: Africa - Regional Graphic .....	88
Figure 4-3: Africa Field Prospects On-stream by Country 2004-2013 .....	90
Figure 4-4: Africa Field Prospects by Country (%) 2009-2013 .....	90
Figure 4-5: Africa On-stream Production by Country (BPDE 000s) 2004-2013 .....	91
Figure 4-6: Africa On-stream Production by Country (%) 2009-2013 .....	91
Figure 4-7: Africa Deepwater Capex (US\$ millions) by Operator 2004-2013 .....	93
Figure 4-8: Africa Deepwater Capex (%) by Operator 2009-2013 .....	93
Figure 4-9: Africa Platform Capex (US\$ millions) by Country 2004-2013 .....	94
Figure 4-10: Africa Platform Capex (%) by Country 2009-2013 .....	95
Figure 4-11: Africa Platform Capex (US\$ millions) by WD Range 2004-2013 .....	95
Figure 4-12: Africa Platform Capex (%) by WD Range 2009-2013 .....	95
Figure 4-13: Africa Subsea Capex (US\$ millions) by Country 2004-2013 .....	97
Figure 4-14: Africa Subsea Capex (%) by Country 2009-2013 .....	97
Figure 4-15: Africa Pipeline Capex (US\$ millions) by Country 2004-2013 .....	98
Figure 4-16: Africa Pipeline Capex (%) by Country 2009-2013 .....	98
Figure 4-17: Africa Pipeline Length (KM) by Country 2004-2013 .....	99
Figure 4-18: Africa Pipeline Length (%) by Country 2009-2013 .....	99
Figure 4-19: Africa Control Line Expenditure (US\$ millions) by Country 2004-2013 .....	100
Figure 4-20: Africa Control Line Expenditure (%) by Country 2009-2013 .....	101
Figure 4-21: Africa Control Line Length (KM) by Country 2004-2013 .....	101
Figure 4-22: Africa Control Line Length (%) by Country 2009-2013 .....	102
Figure 4-23: Asia - Regional Graphic .....	103
Figure 4-24: Asia Field Prospects (Nos.) by Country 2004-2013 .....	105
Figure 4-25: Asia Field Prospects by Country (%) 2009-2013 .....	105
Figure 4-26: Asia Production Prospects by Country (BPDE 000s) 2004-2013 .....	106
Figure 4-27: Asia Production Prospects by Country (%) 2009-2013 .....	106
Figure 4-28: Asia Deepwater Capex (US\$ millions) .....	108
Figure 4-29: Asia Deepwater Capex (%) .....	108
Figure 4-30: Asia Platform Capex (US\$ millions) by Country 2004-2013 .....	109
Figure 4-31: Asia Platform Capex (%) by Country 2009-2013 .....	109
Figure 4-32: Asia Platform Capex (US\$ millions) by WD Range 2004-2013 .....	110
Figure 4-33: Asia Platform Capex (%) by WD Range 2009-2013 .....	110
Figure 4-34: Asia Subsea Capex (US\$ millions) by Country 2004-2013 .....	111
Figure 4-35: Asia Subsea Capex (US\$ millions) by Country 2009-2013 .....	111
Figure 4-36: Asia Pipeline Capex (US\$ millions) by Country 2004-2013 .....	112
Figure 4-37: Asia Pipeline Capex (%) by Country 2009-2013 .....	113
Figure 4-38: Asia Pipeline Length (KM) by Country 2004-2013 .....	114
Figure 4-39: Asia Pipeline Length (%) by Country 2009-2013 .....	114
Figure 4-40: Asia Control Line Expenditure (US\$ millions) by Country 2004-2013 .....	115

Figure 4-41: Asia Control Line Capex (%) by Country 2009-2013 .....	115
Figure 4-42: Asia Control Line KM (%) by Country 2009-2013 .....	115
Figure 4-43: Australasia - Regional Graphic .....	116
Figure 4-44: Australasia Field Prospects (Nos.) by Country 2004-2013.....	116
Figure 4-45: Australasia Production Prospects by Country .....	117
Figure 4-46: Australian Total Production against new regasification plants coming on-stream in Asia, 2003 - 2012 .....	118
Figure 4-47: Australasia Deepwater Capex (US\$ millions) .....	118
Figure 4-48: Australasia Deepwater Capex (%) .....	119
Figure 4-49: Australasia Platform Capex (US\$ millions) by Country 2004-2013 .....	119
Figure 4-50: Australasia Platform Capex (US\$ millions) by WD Range 2003-2013 .....	119
Figure 4-51: Australasia Subsea Capex (US\$ millions) by Country 2004 - 2013 .....	120
Figure 4-52: Australasia Pipeline Capex (US\$ millions) Vs. Length (KM) 2004-2013 .....	120
Figure 4-53: Australasia Control Line Capex (US\$ millions) Vs. Length (KM) 2004-2013.....	121
Figure 4-54: Europe - Regional Graphic.....	122
Figure 4-55: European Field Prospects (Nos.) by Country 2004-2013 .....	123
Figure 4-56: Europe Field Prospects (numbers) by Country (%) 2009 - 2013.....	123
Figure 4-57: Europe Deepwater Capex (US\$ millions).....	125
Figure 4-58: Europe Deepwater Capex (%) .....	125
Figure 4-59: Europe Platform Capex (US\$ millions) by Country 2004-2013 .....	125
Figure 4-60: Europe Platform Capex (US\$ millions) by WD Range 2008-2012 .....	126
Figure 4-61: Europe Subsea Capex (US\$ millions) by Country 2004-2013 .....	126
Figure 4-62: Europe Pipeline Capex (US\$ millions) by Country 2004-2013.....	128
Figure 4-63: Europe Pipeline Capex (%) by Country 2009-2013 .....	128
Figure 4-64: Europe Pipeline Length (km) by Country 2004-2013 .....	129
Figure 4-65: Europe Pipeline Length (%) by Country 2009-2013.....	129
Figure 4-66: Europe Control Line Expenditure (%) by Country 2009-2013 .....	129
Figure 4-67: Europe Control Line Length (KM) by Country 2009-2012 .....	130
Figure 4-68: Europe Control Line Length (%) by Country 2009-2013 .....	130
Figure 4-69: Latin America - Regional Graphic .....	131
Figure 4-70: Latin America Field Prospects (Nos.) by Country 2004-2013 .....	132
Figure 4-71: Latin America Production Prospects by Country .....	133
Figure 4-72: Latin America Deepwater Capex (US\$ millions) .....	134
Figure 4-73: Latin America Deepwater Capex (%) .....	135
Figure 4-74: Latin America Platform Capex (US\$ millions) by Country 2004-2013.....	136
Figure 4-75: Latin America Platform Capex (%) by Country 2004-2013 .....	136
Figure 4-76: Latin America Platform Capex (US\$ millions) by WD Range 2004-2013 .....	136
Figure 4-77: Latin America Platform Capex (%) by WD Range 2009-2013.....	137
Figure 4-78: Latin American Subsea Capex (US\$ millions) 2004-2013 .....	137
Figure 4-79: Latin American Subsea Capex (US\$ millions) by WD Range (Metres) 2004-2013.....	138
Figure 4-80: Latin America Pipeline Capex (US\$ millions) by Country 2004-2013 .....	139
Figure 4-81: Latin America Pipeline Capex (%) by Country 2009-2013 .....	139
Figure 4-82: Latin America Pipeline Length (km) by Country 2004-2013.....	140
Figure 4-83: Latin America Pipeline Length (km) by Country 2009-2013.....	140
Figure 4-84: Latin America Control Line Expenditure (US\$ millions) by Country 2004-2013 .....	141

Figure 4-85: Latin America Control Line Length (KM) .....	141
Figure 4-86: Middle East & Caspian - Regional Graphic .....	142
Figure 4-87: Middle East & Caspian Production Prospects by Country (BPDE 000s) 2004-2013 .....	143
Figure 4-88: Middle East & Caspian Production Deepwater Capex (US\$ millions) by Operator 2004-2013 .....	143
Figure 4-89: Middle East & Caspian Production Deepwater Capex (%) by Operator 2009-2013 .....	144
Figure 4-90: Middle East Subsea Capex (US\$ millions) by Country 2009-2013 .....	144
Figure 4-91: Middle East Subsea Capex (%) by Country 2009-2013 .....	144
Figure 4-92: Middle East & Caspian Pipeline Capex (%) by Country 2009-2013 .....	145
Figure 4-93: Middle East & Caspian Pipeline Length (%) by Country 2009-2013 .....	145
Figure 4-94: Middle East & Caspian Control Line Expenditure (%) by Country 2009-2013 .....	146
Figure 4-95: Middle East & Caspian Control Line Length (%) by Country 2009-2013 .....	146
Figure 4-96: North America - Regional Graphic .....	147
Figure 4-97: North America Field Prospects (Nos.) by Country 2004-2013 .....	149
Figure 4-98: North America Production On-stream .....	149
Figure 4-99: North American Capex (US\$ millions) .....	151
Figure 4-100: North American Capex (%) by Operator 2009-2013 .....	151
Figure 4-101: North America Platforms Capex (US\$ millions) by Country 2004-2013 .....	153
Figure 4-102: North America Platform Capex (US\$ millions) by WD Range 2004-2013 .....	154
Figure 4-103: North America Platform Capex (%) by WD Range 2009-2013 .....	154
Figure 4-104: North America Subsea Capex (US\$ millions) by Country 2004-2013 .....	154
Figure 4-105: North America Subsea Capex by Water Depth 2004-2013 .....	155
Figure 4-106: North America Pipeline Capex (US\$ millions) by Country 2004-2013 .....	156
Figure 4-107: North America Pipeline Length (km) .....	157
Figure 4-108: North America Control Line Expenditure (US\$ millions) by Country 2004-2013 .....	158
Figure 4-109: North America Control Line Expenditure (%) by Country 2009-2013 .....	158
Figure 4-110: North America Control Line Length (KM) .....	158
Figure 5-1: Global Platform Capex (US\$ millions) by Region 2004-2013 .....	161
Figure 5-2: Global Platform Capex Forecast (%) by Region 2009-2013 .....	161
Figure 5-3: Global Platform Installations by Region 2004-2013 .....	162
Figure 5-4: Global Platform Installations (%) by Region 2009-2013 .....	162
Figure 5-5: Global Platform Capex (US\$ millions) by WD 2004-2013 .....	164
Figure 5-6: Global Platform Capex (%) by WD 2009-2013 .....	164
Figure 5-7: Global Subsea Capex (US\$ millions) by Region 2004-2013 .....	165
Figure 5-8: Global Subsea Capex (%) by Region 2009-2013 .....	165
Figure 5-9: Global Subsea Wells (Nos.) by Region 2004-2013 .....	167
Figure 5-10: Global Subsea Wells (Nos.) Forecast by Region 2009-2013 .....	167
Figure 5-11: Global Subsea Trees (Nos.) by WD Range 2004-2013 .....	167
Figure 5-12: Global Pipeline Capex (US\$ millions) by Region 2004-2013 .....	169
Figure 5-13: Global Pipeline Capex (%) by Region 2008-2012 .....	169
Figure 5-14: Global Pipeline Length (km) by Region 2004-2013 .....	170
Figure 5-15: Global Pipeline Length (%) by Region 2009-2013 .....	171
Figure 5-16: Global Pipeline Capex (US\$ millions) by WD Range 2004-2013 .....	172
Figure 5-17: Global Pipeline Capex (%) by WD Range 2009-2012 .....	172
Figure 5-18: Global Pipeline Length (km) by WD Range 2004-2013 .....	173

Figure 5-19: Global Pipeline Length (km) (%) by WD Range 2009-2013.....	173
Figure 5-20: Global Control Line Capex (US\$ millions) by Region 2004-2013.....	174
Figure 5-21: Global Control Line Capex (%) by Region 2009-2013.....	174
Figure 5-22: Global Control Line Length (km) by Region 2004-2013.....	175
Figure 5-23: Global Control Line Length (%) by Region 2009-2013.....	175
Figure 5-24: Global Control Line Capex (US\$ millions) by WD Range 2004-2013.....	177
Figure 5-25: Global Control Line Capex (%) by WD Range 2009-2013.....	177
Figure 6-1: North Africa Deepwater Production to 2013.....	187
Figure 6-2: West Africa Deepwater Production to 2013.....	188
Figure 6-3: East Asia Deepwater Production to 2013.....	189
Figure 6-4: India Deepwater Production to 2013.....	190
Figure 6-5: South Asia Deepwater Production to 2013.....	191
Figure 6-6: Australia Deepwater Production to 2013.....	192
Figure 6-7: NWECS Deepwater Production to 2013.....	193
Figure 6-8: Southern Europe Deepwater Production to 2013.....	194
Figure 6-9: Middle East Deepwater Production to 2013.....	195
Figure 6-10: North America Deepwater Production to 2013.....	196
Figure 6-11: Latin America Deepwater Production to 2013.....	197
Figure 6-12: North Africa Deepwater Reserves to 2013.....	198
Figure 6-13: West Africa Deepwater Reserves to 2013.....	199
Figure 6-14: East Asia Deepwater Reserves to 2013.....	200
Figure 6-15: India Deepwater Reserves to 2013.....	201
Figure 6-16: South East Asia Deepwater Reserves to 2013.....	202
Figure 6-17: Australia Deepwater Reserves to 2013.....	203
Figure 6-18: NWECS Deepwater Reserves to 2013.....	204
Figure 6-19: Southern Europe Deepwater Reserves to 2013.....	205
Figure 6-20: Middle East Deepwater Reserves to 2013.....	206
Figure 6-21: North America Deepwater Reserves to 2013.....	207
Figure 6-22: Latin America Deepwater Reserves to 2013.....	208
Figure 6-23: West Africa Deepwater Platforms to 2013.....	209
Figure 6-24: India Deepwater Platforms to 2013.....	210
Figure 6-25: South East Asia Deepwater Platforms to 2013.....	211
Figure 6-26: Australia Deepwater Platforms to 2013.....	212
Figure 6-27: Southern Europe Deepwater Platforms to 2013.....	213
Figure 6-28: North America Deepwater Platforms to 2013.....	214
Figure 6-29: Latin America Deepwater Platforms to 2013.....	215
Figure 6-30: Australia Deepwater Subsea Installations to 2013.....	216
Figure 6-31: NWECS Deepwater Subsea Installations to 2013.....	217
Figure 6-32: North America Deepwater Subsea Installations to 2013.....	218
Figure 6-33: Latin America Deepwater Subsea Installations to 2013.....	219
Figure 6-34: North Africa Deepwater Pipelines (500m+) to 2013.....	220
Figure 6-35: West Africa Deepwater Pipelines (500m+) to 2013.....	221
Figure 6-36: South East Asia Deepwater Pipelines (500m+) to 2013.....	222
Figure 6-37: Australia Deepwater Pipelines (500m+) to 2013.....	223

Figure 6-38: North America Deepwater Pipelines (500m+) to 2013 ..... 224  
Figure 6-39: Latin America Deepwater Pipelines (500m+) to 2013 ..... 225

## LIST OF TABLES

Table 1-1: Top Five Deepwater Operators by Capex (US\$ millions).....	26
Table 1-2: Total Deepwater Capex by Region (US\$ millions) 2004-2008 .....	30
Table 1-3: Total Deepwater Capex by Region (US\$ millions) 2009-2013 .....	30
Table 2-1: Primary energy consumption 1987 – 2007 – by region .....	40
Table 2-2: Primary energy consumption 1987 – 2007 – by region .....	40
Table 2-3: Primary energy consumption 2007 – by fuel .....	40
Table 2-4: Primary energy consumption 2007 – by fuel .....	41
Table 2-5: Oil inter-area movements 2007 .....	41
Table 2-6: Gas trade movements 2007 .....	41
Table 2-7: Proved oil reserves 1987 – 2007 – by region .....	42
Table 2-8: Proved oil reserves 1987 – 2007 – by region .....	42
Table 2-9: Proved gas reserves 1987 – 2007 – by region .....	42
Table 2-10: Oil production 1987 – 2007 – by region .....	43
Table 2-11: Oil production 1987 – 2007 – by region .....	43
Table 2-12: Gas production 1987 – 2007 – by region .....	43
Table 2-13: Gas production 1987 – 2007 – by region .....	44
Table 3-1: Top Five Deepwater Operators by Capex (US\$ millions) 2004-2008.....	48
Table 3-2: Top Five Deepwater Operators by Capex (US\$ millions) 2009-2013.....	48
Table 3-3: Top Five Deepwater Operators by Reserves (mmboe) 2004-2008 .....	49
Table 3-4: Top Five Deepwater Operators by Reserves (mmboe) 2009-2013.....	50
Table 3-5: Top Five Deepwater Operators by Production (BPDE 000s) 2004-2008 .....	50
Table 3-6: Top Ten Deepwater Operators by Production (BPDE 000s) 2009-2013.....	51
Table 3-7: Petrobras Deepwater Reserves (mmboe), Production (BPDE 000s), and Capex (US\$) 2004-2008 .....	52
Table 3-8: Petrobras Deepwater Reserves (mmboe), Production (BPDE 000s), and Capex (US\$) 2009-2013 .....	52
Table 3-9: Petrobras Deepwater Capex (US\$ millions) by Region 2004-2008.....	53
Table 3-10: Petrobras Deepwater Capex (US\$ millions) by Region 2009-2013.....	53
Table 3-11: Petrobras Deepwater Capex (US\$ millions) by Data Set 2004-2008 .....	54
Table 3-12: Petrobras Deepwater Capex (US\$ millions) by Data Set 2009-2013 .....	54
Table 3-13: Petrobras Deepwater Capex (US\$ millions) by Project Type 2004-2008.....	55
Table 3-14: Petrobras Deepwater Capex (US\$ millions) by Project Type 2009-2013.....	56
Table 3-15: ExxonMobil Deepwater Reserves (mmboe), Production (BPDE 000s), and Capex (US\$ millions) 2004-2008 .....	57
Table 3-16: ExxonMobil Deepwater Reserves (mmboe), Production (BPDE 000s), and Capex (US\$ millions) 2009-2013 .....	57
Table 3-17: ExxonMobil Deepwater Capex (US\$ millions) by Region 2004-2008.....	57
Table 3-18: ExxonMobil Deepwater Capex (US\$ millions) by Region 2009-2013.....	58
Table 3-19: ExxonMobil Deepwater Capex (US\$ millions) by Data Set 2004-2008 .....	59
Table 3-20: ExxonMobil Deepwater Capex (US\$ millions) by Data Set 2009-2013 .....	59
Table 3-21: ExxonMobil Deepwater Capex (US\$ millions) by Project Type 2004-2008.....	60
Table 3-22: ExxonMobil Deepwater Capex (US\$ millions) by Project Type 2009-2013.....	61
Table 3-23: Total Deepwater Reserves (mmboe), Production (BPDE 000s), and Capex (US\$ millions) 2004-2008 .....	62
Table 3-24: Total Deepwater Reserves (mmboe), Production (BPDE 000s), and Capex (US\$ millions) 2009-2013 .....	62

Table 3-25: Total Deepwater Capex (US\$ millions) by Region 2004-2008 .....	62
Table 3-26: Total Deepwater Capex (US\$ millions) by Region 2008-2013 .....	62
Table 3-27: Total Deepwater Capex (US\$ millions) by Data Set 2004-2008.....	63
Table 3-28: Total Deepwater Capex (US\$ millions) by Data Set 2009-2013.....	63
Table 3-29: Total Deepwater Capex (US\$ millions) by Project Type 2004-2008 .....	64
Table 3-30: Total Deepwater Capex (US\$ millions) by Project Type 2009-2013 .....	66
Table 3-31: BP Deepwater Reserves (mmbobe), Production (BPDE 000s), and Capex (US\$ millions) 2004-2008 .....	67
Table 3-32: BP Deepwater Reserves (mmbobe), Production (BPDE 000s), and Capex (US\$ millions) 2009-2013 .....	67
Table 3-33: BP Deepwater Capex (US\$ millions) by Region 2004-2008 .....	67
Table 3-34: BP Deepwater Capex (US\$ millions) by Region 2009-2013 .....	67
Table 3-35: BP Deepwater Capex (US\$ millions) by Data Set 2004-2008.....	68
Table 3-36: BP Deepwater Capex (US\$ millions) by Data Set 2009-2013.....	68
Table 3-37: BP Deepwater Capex (US\$ millions) by Project Type 2004-2008.....	69
Table 3-38: BP Deepwater Capex (US\$ millions) by Project Type 2009-2013.....	70
Table 3-39: Chevron Deepwater Reserves (mmbobe), Production (BPDE 000s), and Capex (US\$ millions) 2004-2008 .....	71
Table 3-40: Chevron Deepwater Reserves (mmbobe), Production (BPDE 000s), and Capex (US\$ millions) 2009-2013 .....	71
Table 3-41: Chevron Deepwater Capex (US\$ millions) by Region 2004-2008.....	72
Table 3-42: Chevron Deepwater Capex (US\$ millions) by Region 2009-2013.....	72
Table 3-43: Chevron Deepwater Capex (US\$ millions) by Data Set 2004-2008 .....	73
Table 3-44: Chevron Deepwater Capex (US\$ millions) by Data Set 2009-2013 .....	73
Table 3-45: Chevron Deepwater Capex (US\$ millions) by Project Type 2004-2008.....	74
Table 3-46: Chevron Deepwater Capex (US\$ millions) by Project Type 2009-2013.....	75
Table 4-1: Africa Fields Prospects On-stream by Country 2004-2008 .....	89
Table 4-2: Africa Fields Prospects On-stream by Country 2009-2013 .....	89
Table 4-3: Africa Production On-stream by Country (BPDE 000s) 2004-2008.....	91
Table 4-4: Africa Production On-stream by Country (BPDE 000s) 2009-2013.....	91
Table 4-5: Africa Deepwater Capex (US\$ millions) .....	92
Table 4-6: Africa Deepwater Capex (US\$ millions) .....	92
Table 4-7: Africa Platform Capex (US\$ millions) by Country 2004-2008.....	94
Table 4-8: Africa Platform Capex (US\$ millions) by Country 2008-2012.....	94
Table 4-9: Africa Platform Capex (US\$ millions) by WD Range 2004-2008.....	95
Table 4-10: Africa Platform Capex (US\$ millions) by WD Range 2009-2013.....	95
Table 4-11: Africa Subsea Capex (US\$ millions) by Country 2004-2008.....	96
Table 4-12: Africa Subsea Capex (US\$ millions) by Country 2009-2013.....	96
Table 4-13: Africa Pipeline Capex (US\$ millions) by Country 2004-2008 .....	98
Table 4-14: Africa Pipeline Capex (US\$ millions) by Country 2009-2013 .....	98
Table 4-15: Africa Pipeline Length (KM) by Country 2004-2008 .....	99
Table 4-16: Africa Pipeline Length (KM) by Country 2009-2013 .....	99
Table 4-17: Africa Control Line Expenditure (US\$ millions) by Country 2004-2008 .....	100
Table 4-18: Africa Control Line Expenditure (US\$ millions) by Country 2009-2013 .....	100
Table 4-19: Africa Control Line Length (KM) by Country 2004-2008.....	101
Table 4-20: Africa Control Line Length (KM) by Country 2009-2013.....	101
Table 4-21: Asia Fields On-stream by Country 2004-2008 .....	104
Table 4-22: Asia Field Prospects by Country 2009-2013 .....	104

Table 4-23: Asia Production On-stream by Country (BPDE 000s) 2004-2008 .....	106
Table 4-24: Asia Production On-stream by Country (BPDE 000s) 2009-2013 .....	106
Table 4-25: Asia Deepwater Capex (US\$ millions) .....	107
Table 4-26: Asia Deepwater Capex (US\$ millions) .....	107
Table 4-27: Asia Platform Capex (US\$ millions) by Country 2004-2008 .....	108
Table 4-28: Asia Platform Capex (US\$ millions) by Country 2009-2013 .....	108
Table 4-29: Asia Platform Capex (US\$ millions) by WD Range 2004-2008 .....	109
Table 4-30: Asia Platform Capex (US\$ millions) by WD Range 2009-2013 .....	110
Table 4-31: Asia Subsea Capex (US\$ millions) by Country 2009-2013 .....	111
Table 4-32: Asia Pipeline Capex (US\$ millions) by Country 2004-2008 .....	112
Table 4-33: Asia Pipeline Capex (US\$ millions) by Country 2009-2013 .....	112
Table 4-34: Asia Pipeline Length (KM) by Country 2004-2008 .....	113
Table 4-35: Asia Pipeline Length (KM) by Country 2009-2013 .....	113
Table 4-36: Asia Control Line Capex (US\$ millions) by Country 2009-2013 .....	114
Table 4-37: Asia Control Line Length (KM) by Country 2009-2013 .....	115
4-38: Australasia Deepwater Capex (US\$ millions) .....	118
4-39: Australasia Deepwater Capex (US\$ millions) .....	118
Table 4-40: Australasia Pipeline Capex (US\$ millions) by Country 2009-2013 .....	120
Table 4-41: Australasia Pipeline Length (KM) by Country 2009-2013 .....	120
Table 4-42: Australasia Control Line Expenditure (US\$ millions) by Country 2009-2013 .....	121
Table 4-43: Australasia Control Line Length (KM) by Country 2009-2013 .....	121
Table 4-44: Europe Deepwater Capex (US\$ millions) by Operator 2004-2008 .....	124
Table 4-45: Europe Deepwater Capex (US\$ millions) .....	124
Table 4-46: Europe Platform Capex (US\$ millions) by Country 2009-2013 .....	125
Table 4-47: Europe Subsea Capex (US\$ millions) by Country 2009-2013 .....	126
Table 4-48: Europe Pipeline Capex (US\$ millions) by Country 2004 - 2008 .....	127
Table 4-49: Europe Pipeline Capex (US\$ millions) by Country 2009-2013 .....	127
Table 4-50: Europe Pipeline Length (km) by Country 2004-2008 .....	128
Table 4-51: Europe Pipeline Length (km) by Country 2009-2013 .....	128
Table 4-52: Europe Control Line Expenditure (US\$ millions) by Country 2009-2013 .....	129
Table 4-53: Europe Control Line Length (KM) by Country 2009-2012 .....	129
Table 4-54: Latin America Fields On-stream by Country 2004-2008 .....	132
Table 4-55: Latin America Field Prospects by Country 2009-2013 .....	132
Table 4-56: Latin America Production On-stream by Country .....	133
Table 4-57: Latin America Production On-stream by Country .....	133
Table 4-58: Latin America Deepwater Capex (US\$ millions) .....	134
Table 4-59: Latin America Deepwater Capex (US\$ millions) .....	134
Table 4-60: Latin America Platform Capex (US\$ millions) by Country 2004-2008 .....	135
Table 4-61: Latin America Platform Capex (US\$ millions) by Country 2009-2013 .....	135
Table 4-62: Latin America Subsea Capex (US\$ millions) .....	137
Table 4-63: Latin America Subsea Capex (US\$ millions) .....	137
Table 4-64: Latin America Pipeline Capex (US\$ millions) .....	138
Table 4-65: Latin America Pipeline Capex (US\$ millions) .....	138
Table 4-66: Latin America Pipeline Length (km) by Country 2004-2008 .....	139

Table 4-67: Latin America Pipeline Length (km) by Country 2009-2013 .....	139
Table 4-68: Latin America Control Line Capex (US\$ millions) by Country 2004-2008 .....	140
Table 4-69: Latin America Control Line Capex (US\$ millions) by Country 2009-2013 .....	140
Table 4-70: Latin America Control Line Length (KM) by Country 2004-2008 .....	141
Table 4-71: Latin America Control Line Length (KM) by Country 2009-2013 .....	141
Table 4-72: Middle East & Caspian Production Deepwater Capex (US\$ millions) by Operator 2009-2013 .....	143
Table 4-73: Middle East & Caspian Pipeline Capex (US\$ millions) by Country 2009-2013 .....	145
Table 4-74: Middle East & Caspian Pipeline Length (km) by Country 2009-2013 .....	145
Table 4-75: Middle East & Caspian Control Line Expenditure (US\$ millions) by Country 2009-2013 .....	146
Table 4-76: Middle East & Caspian Control Line Length (KM) by Country 2009-2013 .....	146
Table 4-77: North America Fields On-stream by Country 2004-2008 .....	148
Table 4-78: North America Field Prospects by Country 2009-2013 .....	148
Table 4-79: North America Production On-stream by Country .....	149
Table 4-80: North America Production On-stream by Country .....	149
Table 4-81: North American Capex (US\$ millions) .....	151
Table 4-82: North American Capex (US\$ millions) .....	151
Table 4-83: North America Platforms Capex (US\$ millions) by Country 2004-2008 .....	153
Table 4-84: North America Platforms Capex (US\$ millions) by Country 2009-2013 .....	153
Table 4-85: North America Platform Capex (US\$ millions) by WD Range 2004-2008 .....	153
Table 4-86: North America Platform Capex (US\$ millions) by WD Range 2009-2013 .....	153
Table 4-87: North America Subsea Capex (US\$ millions) .....	154
Table 4-88: North America Subsea Capex (US\$ millions) .....	154
Table 4-89: North America Pipeline Capex (US\$ millions) by Country 2004-2008 .....	156
Table 4-90: North America Pipeline Capex (US\$ millions) by Country 2009-2013 .....	156
Table 4-91: North America Pipeline Length (km) by Country 2004-2008 .....	156
Table 4-92: North America Pipeline Length (km) by Country 2009-2013 .....	157
Table 4-93: North America Control Line Expenditure (US\$ millions) by Country 2004-2008 .....	157
Table 4-94: North America Control Line Expenditure (US\$ millions) by Country 2009-2013 .....	157
Table 4-95: North America Control Line Length (KM) by Country 2004-2008 .....	158
Table 4-96: North America Control Line Length (KM) by Country 2009-2013 .....	158
Table 5-1: Global Platform Capex (US\$ millions) by Region 2004-2008 .....	161
Table 5-2: Global Platform Capex Forecast (US\$ millions) by Region 2009-2013 .....	161
Table 5-3: Global Platform Installations by Region 2004-2008 .....	162
Table 5-4: Global Platform Installations by Region 2009-2013 .....	162
Table 5-5: Global Platform Capex (US\$ millions) by WD 2004-2008 .....	163
Table 5-6: Global Platform Capex (US\$ millions) by WD 2009-2013 .....	164
Table 5-7: Global Subsea Capex (US\$ millions) by Region 2004-2008 .....	165
Table 5-8: Global Subsea Capex (US\$ millions) by Region 2009-2013 .....	165
Table 5-9: Global Subsea Wells (Nos.) by Region 2004-2008 .....	166
Table 5-10: Global Subsea Wells (Nos.) Forecast by Region 2009-2013 .....	166
Table 5-11: Global Pipeline Capex (US\$ millions) by Region 2004-2008 .....	169
Table 5-12: Global Pipeline Capex (US\$ millions) by Region 2009-2013 .....	169
Table 5-13: Global Pipeline Length (km) by Region 2004-2008 .....	170
Table 5-14: Global Pipeline Length (km) by Region 2009-2013 .....	170

Table 5-15: Global Pipeline Capex (US\$ millions) by WD Range 2004-2008 .....	171
Table 5-16: Global Pipeline Capex (US\$ millions) Forecast by WD Range 2009-2013 .....	171
Table 5-17: Global Pipeline Length (km) by WD Range 2004-2008.....	172
Table 5-18: Global Pipeline Length (km) by WD Range 2009-2013.....	172
Table 5-19: Global Control Line Capex (US\$ millions) by Region 2004-2008.....	174
Table 5-20: Global Control Line Capex (US\$ millions) by Region 2009-2013.....	174
Table 5-21: Global Control Line Length (km) by Region 2004-2008 .....	175
Table 5-22: Global Control Line Length (km) Forecast by Region 2009-2013 .....	175
Table 5-23: Global Control Line Capex (US\$ millions) by WD 2004-2008 .....	176
Table 5-24: Global Control Line Capex (US\$ millions) by WD 2009-2013 .....	176
Table 6-1: Global Deepwater Capex (US\$ millions) by Regions– Q4 2007 model year.....	183
Table 6-2: Global Deepwater Capex (US\$ millions) by Regions– Q2 2008 model year.....	183
Table 6-3: Global Deepwater Capex (US\$ millions) by Regions – Variance Q2 2008 – Q4 2007.....	184
Table 6-4: Global Deepwater Capex forecast change by Regions (percentage) – Variance Q2 2008 – Q4 2007 .....	184
Table 6-5: Global Deepwater Number of Projects Forecast by Region – Q2 2008 Model Year .....	185
Table 6-6: Global Deepwater Number of Projects Forecast by Region – Q4 2007 Model Year .....	185
Table 6-7: Global Deepwater Number of Projects Forecast by Region – Q2 2008 model year – Q4 2007 model year .....	186
Table 6-8: Global Deepwater Number of Projects Forecast by Region (%) – Q2 2008 model year – Q4 2007 model year.....	186