GLOBAL PERSPECTIVES

Fixed Platform
Market Update 2008/12

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THE ENERGY ANALYSTS

Global Perspectives
Fixed Platforms Market Update 2008-2012

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This Report

This report concentrates on key market information within the sector and aims to provide the headline information, figures and statistics required to understand the main drivers, size and value of the various constituent elements.

This report is designed as a business tool and as such makes no apologies for its forthright style.

Outline structure of Report

The early chapters of the report look at the Regions and Key Sectors before the final chapter brings together the report and outlines our main Global Forecasts.

Clarity & Terminology

Within the context of this report a consistent set of terms is used to ensure clarity and comparability. The most important of these are:

Fixed Platforms – A platform structure that is anchored to the seabed and encompasses the following types: piled, gravity, guyed, jack-up, compliant production tower (CPT), caisson, skirt, suction pile (skirt plate) and gravity based.

Regions – A definitive list of which countries are classified within which region is appended to this report. If a different country/region classification is required, then please contact Infield directly.

Wherever possible the colour representation of regions, status, development type, operator etc. has been maintained throughout the report.

Fixed Platforms Online

Purchasers of *Global Perspectives Fixed Platforms Market Update 2008-2012* receive free access to **Fixed Platforms Online** for a 12 month period. **Fixed Platforms Online** is a website which provides information on all platforms being planned or considered for installation for the period 2008 to 2012 in the Offshore European Sector. The service details key information about each project including platform name, project status, year installed, year removed, platform type, wells, product, piles, topside, jacket and total weights, location, jacket manufacturer and manned or unmanned.

The fixed platform 2008 to 2012 European sector data set is only a proportion of the platforms data set which has worldwide coverage for the period 1947 through to 2025. Additional data from the platforms data sets and the other data sets from the Infield Offshore Energy Database are available. Please contact us for additional details.

The service is available online, at **http//www.infieldonline.com** and a subscription form is included with this Report. **Fixed Platforms Online** is updated on a weekly basis. More frequent updates and expanded coverage may be arranged. Existing users of Infield Systems' Databases may modify their current arrangements and should contact us for details.

Data Sources

The base data used in this study relate to fields brought on stream over the 2003 – 2007 period, or which are currently under development or being planned or considered for development for the 2008 – 2012 period Fields are referred to, in the historic period, as '**projects'** and to those in the future period as '**prospects**.' It is also important to differentiate between basic field information and the market information which are '**forecasts**'. The methodology used to derive these forecasts from the information contained within the Infield Systems database is outlined at the beginning of the market section.

The information on the fixed platform projects and prospects, and their associated development hardware, was taken from the Infield Systems database during the third quarter 2007. Data given elsewhere in the text are drawn from a wide range of publications, national and international statistics and internal analysis by Infield Systems. Where appropriate, the relevant source has been cited. This information has been supplemented by our own contacts with operators, contractors and suppliers worldwide.

The OFFPEX™ Market Modelling & Forecasting System

The OFFPEX™ Market Modelling & Forecasting System is a proprietary system developed, owned and operated exclusively by Infield Systems. Working in conjunction with the main Infield Systems' databases, including the Offshore Energy Database, the OFFPEX™ system allows for the modelling and forecasting of all aspects of the development cycle of the offshore oil and gas industry.

In addition project timing, development scenarios, expenditure allocations, supply & demand planning, operator profiles etc can be analysed. Whilst producing models and forecasts over the medium (5-10 years) and longer-term (10-20 years), the OFFPEX™ system also takes into account the influences of macro-economic, techno-economic, geopolitical and other discerning factors, to produce alternative expenditure scenarios.

Built from the bottom up, the OFFPEX™ system is highly versatile and infinitely adaptable to allow for specific field analysis and major global or sectoral forecasts.

The OFFPEX™ Modelling & Forecasting System is the only complete global view of the entire offshore industry available today anywhere in the world.

Further details of the OFFPEX™ system can be obtained from Infield Systems Limited.

The ISL Team

Simon Stacey – *Lead Author & Reseacher*
Simon holds a BSc (Hons) in Physics and The Universe from Reading University. He has completed research projects in the physics behind renewable energy sources, current technological developments occurring in academia. In addition, he has researched government policy regarding the wider context of the future of energy supply in the UK. Simon also has strong mathematical and modeling skills and has also had large involvement with the Institute of Physics (IoP).

Howard Wright – *Author & Analytical Servies Manager*
Howard holds a BSc (Hons) in Economics from Warwick University. Since joining Infield Systems in 2003 he has been the lead author of the sector studies, Global Perspectives: Subsea Production – Market Update 2004/08 & 2005/09 and the Global Perspectives: Pipelines and Control lines – Market Update 2005/09 & 2007/11. Howard has completed detailed studies on numerous key sectors within the offshore industry and manages ISL's Match & Track product line. In addition he co-ordinates the development of ISL's OFFPEX™ modelling and forecasting system.

Dr Roger Knight – *Editor & Offshore Data Manager*
For the past 20 years, Roger has been responsible for the collection, validation and evaluation of the global offshore oil & gas data held on the Infield Systems database, the source of the field information used in this study. He holds a PhD in Geology and is a member of the Energy Institute. Prior to the revolution, Dr Knight worked as a university lecturer in Petrology and Structural Geology in Iran.

Will Rowley *–Director of Analytical Services*
With formal training in business and law and a background in management with a number of blue-chip organisations including Thorn and Total, Will has spent over seven years undertaking strategic and market analysis at the highest level within the offshore industry. An accomplished author of global reports on key sectors of the offshore energy industry, Will has developed an extensive array of medium and long-term market and financial models that are used by many of the industry's key players. As an analyst, Will has completed a multitude of sectoral, geographical and strategic studies as well as providing detailed commentary on macro-economic and techno-economic trends affecting the offshore industry. In addition, he has acted as an independent advisor in multi-million dollar acquisitions and divestitures.

Quentin Whitfield – *Editor & Director of Data & GIS Services*
For the past 19 years, Quentin has been responsible for the development of the Infield Worldwide Offshore Energy Database, analysis of the database on behalf of clients for strategic and market analysis purposes as well as developing the market for Infield's databases, data services and publications and promoting the Infield brand name to the global audience. He is also responsible for developing and implementing the EnergyGateway, Infield's new mapping and GIS system. He holds a Bsc (Hons) in Zoology and two postgraduate diplomas in marketing and is a member of the Institute of Directors and the Chartered Institute of Marketing.

Dr Mulaisho Mwense - *Senior Analyst*
Mulaisho holds a BEng (Hons) and PhD in Chemical Engineering from the University of Leeds. Prior to working for Infield, he carried out research in collaboration with major pharmaceutical companies, specialising in the application of multivariate data analysis and computational techniques for analysing trends and patterns in data, and subsequently developing predictive models. As a key member of our research and analytical support team Mulaisho undertakes research and complex analysis in a range of market areas in relation to Infield's OFFPEX™ Modelling & Forecasting System and for specific client projects

The authors can be contacted by email at **data@infield.com**

Infield Systems Limited - Company Profile
Since 1991, Infield database has been providing accurate, timely and detailed data and information on the worldwide oil and gas industry. Now widely acknowledged as one of the definitive independent reference sources, Infield Systems has developed a range of products and services designed to assist senior executives in business decisions. Whether supplying or managing raw data for internal company use or providing high-level strategic views on global market developments, Infield Systems operates with the highest standards of accuracy, clarity and professionalism to gain results.

All of Infield Systems' products and services are supported by direct access to senior analysts and support personnel, ensuring high standards of service and responsiveness across the globe.

- **Comprehensive worldwide offshore field data**
- **Complete global offshore industry model**
- **Project databases & information**
- **Data analysis**
- **Business strategy & analysis**
- **Quantitative & qualitative surveys & analysis**
- **Global, regional & sector publications**
- **Market analysis & benchmarking**
- **Competitor analysis & monitoring**
- **Scenario development & planning**
- **Tailored research & analysis**
- **Market due diligence**
- **Online GIS & Mapping**

Infield Systems' range of in-house skills include all the major industry disciplines from Geology, Finance & Law through to Senior Operational Management, allowing for the provision of data, information and reports that are realistic, accurate and insightful. Infield Systems' reports and services are used to support business decisions at a senior level and as such are presented with a clarity and conciseness that has brought international acclaim.

As well as bespoke data and information services, Infield Systems provide packaged online databases which offer executives key information on various industry sectors:

- **Deepwater Online**
- **Subsea Online**
- **Floating Production Systems Online**
- **Fixed Platforms Online**
- **Pipelines Online**

Infield Systems data and data sets can be interrogated online or downloaded for use offline with all database and spreadsheet software packages. Data can be incorporated into companies' intranets and databases to build powerful knowledge management systems.

Bespoke databases can be drawn from the following data sets:

- **Fields**
- **Platforms**
- **Subsea Structures**
- **Pipelines**
- **Control Lines**
- **Single Point Moorings**
- **Onshore Terminals, LNG & GTL Plants**
- **Operators**
- **Field Ownership**
- **Specialty Vessels Database**

Furthermore, all of these databases can be combined with the OFFPEX™ Modelling & Forecasting System to produce specific business tools.

Infield Systems Limited is also developing the Infield EnergyGateway Mapping & GIS System which provides a geographically presented view of the Infield Offshore Energy Database

Global Perspective Market Update reports are range of insightful publications on key sectors of the worldwide energy industry which not only provide headline market information in a clear and concise manner, but are built with a highly advanced modelling process that allows for infinite interrogation and further analysis for those who require more detail.

- **Deep & Ultra-deepwater Market Update**
- **Fixed Platforms Market Update**
- **Floating Production Market Update**
- **Subsea Production Market Update**
- **Pipelines and Control Lines Market Update**

Global Perspective Technologies & Projects reports provide a comprehensive insight to the technologies employed in industry. They are designed for executives entering the sector for the first time who need a fast and clear understanding and for seasoned individuals who need to keep abreast of new advancements, new technologies and companies entering and leaving the sector.

- **Deep & Ultra-deepwater Technologies & Projects**

Analytical & Consultancy Services

Infield's analytical team works on an independent and strictly confidential basis. The non-exhaustive list below outlines the capabilities of the Analytical Services team.

Project databases, information & research: Collating, verifying and providing specific project data and information by sector, geographic location or company. Detailed company information is maintained on many of the world's oil & gas operators, contractors, key suppliers as well as extensive records of specific and generic assets. Dedicated research of new business concepts or products, diversification opportunities or even acquisition targets.

Data analysis: Providing statistical analysis of offshore data for existing or prospective new markets.

Business strategy & analysis: Supporting senior executives with strategic decision making and analysis.

Scenario development & planning: Development of long-term scenarios and base-case assessments of countries, fields and players. Including macro-economic, geo-political and energy mix analysis to aid strategic, business model, marketing and investment planning.

Market analysis & benchmarking: Comprehensive market information to allow for business development or diversification. Using multiple inputs to develop advanced market models either as an industry 'snapshot' or as a corporate benchmark for further internal assessment. Available as stand-alone reports or a part of a strategic planning or development exercise

Competitor analysis & monitoring: Detailed assessment of key competitors and prospective competitors including market share, strategic developments and financial performance. Continual monitoring service of key competitors, sectors, assets and or new offshore market developments.

Quantitative & qualitative surveys & analysis: Confidential or independent in-depth surveys of key sectors or aspects of the oil & gas industry on a national, regional or international basis.

Market due diligence: Assisting investment banks and other financial institutions through the provision of independent market assessments for products and services. Deal size undertaken to-date ranges from $0.5m to $1.2bn and includes new product launches, company formation, mergers, acquisitions and divestitures. Provision of independent market view of markets, sectors and companies including market share, market positioning, customer perceptions, competition issues, threats and opportunities.

Fixed Platforms
Market Update Report 2008/12

This report is unique to the industry as it provides an in-depth independent analysis of the worldwide fixed platform market. The Second Edition of the Global Perspectives Fixed Platform Market Update, published by Infield Energy Analysts, has been completely updated and provides a global five year forecast from 2008.

Report Overview:

Infield forecasts that Capex spend over the next five years for the fixed platform market is expected to be $60bn. This is an increase of over 30% over the previous five years. In terms of numbers of platform units, globally the increase is only 8%, however this masks some of the dramatic increase in activity in Africa and Asia. In these two regions alone the increase is expected a staggering 245 units or 60% over the previous five years. In percentage terms Australasia will see its forecast spend increase from $800m to $2bn. In Europe, with the UK needing to sure up its gas supplies, it is expected to account for 36% of the European forecast, with the Netherlands following with 23%.

It is North America that will see a dramatic fall in the number of new platform installations in the Gulf of Mexico. Despite this it is in terms of the regional dispersion of forecast fixed platform installations, it holds the largest share at thirty per cent of the total platforms installed between 2008 and 2012.

The global forecast is expected to peak in 2008, with the expected spend of $13.8bn falling to $9.2bn in 2012. The majority of this decline is due to Asia where in 2009 we expect an increase in annual spend of 90% compared to 2006, but by 2012 this annual spend will fall back to the 2006 level. Beyond 2009 we also expect to see declines in spend in Europe, Latin America and of course North America.

The decline in fixed platforms is partly driven by the growth of the floating production market. The growth of the floating production market has mainly been driven by a decline of new, viable discoveries in mature shallow regions and the above mentioned demand, which has aided oil prices to increase and deepwater production to become an economically realistic option.

Who should buy this report?

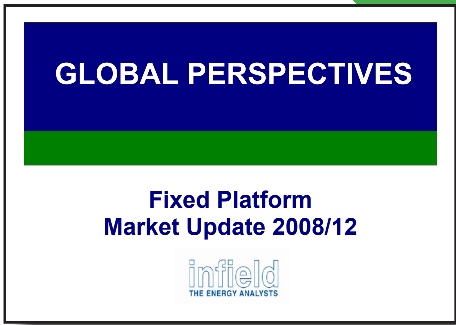
Infield has provided reports to a wide cross section of the offshore oil and gas industry, including E&P companies, contractors, manufacturers, government agencies and the financial community. Within these organisations the reports have been purchased by senior managers and engineers, analysts, consultants and government executives.

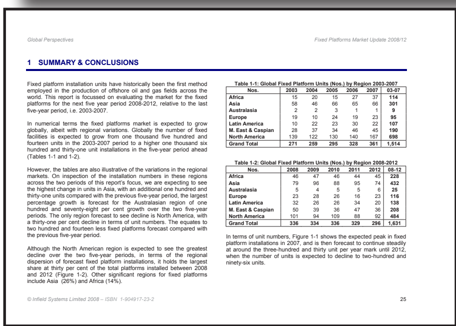
Why you should buy this report:

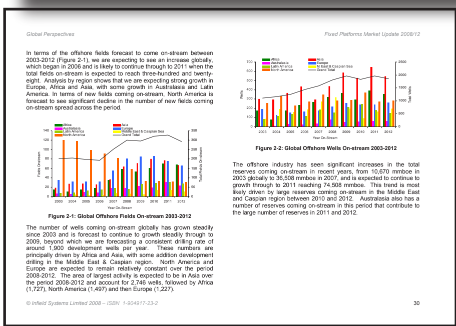
- The Fixed Platforms Market Update is an independent and up-to-the minute analysis of the fixed platform sector utalising Infield's unique database of 10,500 operational and future fixed platforms
- The five year forecasts can be utailised in strategic decision making
- Quickly evaluate the region by region, country by country, sector by sector the unit, spend and award forecasts to identify key business areas
- Easily compare and contrast this 2008 forecast with the previous edition to establish the key market drivers and issues effecting the global subsea market

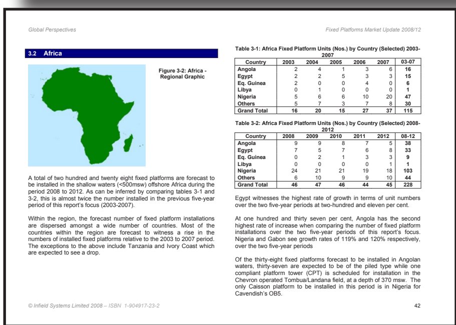
Report Contents

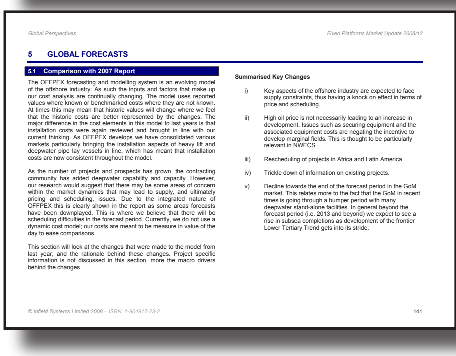
- **Summary & Conclusions** provides an executive overview of the global fixed platform forecast in terms of units and value
- **Global Market Context** looks at the supply and demand issues within the industry, offshore market overview, comparative analysis of the conventional and surf markets with forecast development costs of major projects. Analysis of commodity pricing, price versus activity levels analysis, geopolitical overview including discussions on operator types, including National Oil Companies
- **Regional Analysis & Forecasts** provides for each region (Africa, Asia, Australasia, Europe, Latin America, and North America) an overall forecast with analysis by type of platform, including Caisson, CPT, Gravity, Jack-up, by water depth and by total weight for both units and spend.
- **Component Analysis & Forecasts** provides forecasts for each element of the fixed platform sector.
- **Global Forecasts** provides a comparative analysis of this reports forecast to the 2007 forecast in the previous edition, along with review and analysis of variance in terms of activity and expenditure. All of the regional and sector forecasts are brought together to complete the global fixed platform market using conventional and alternative model profiles.











Online Database www.infieldlive.

Searchable Online Projects Database

Purchasers will receive 12 months' free access to the European sector for Fixed Platforms Online Database. Access provides a facilities listing of all projects being planned or considered for the period 2008/12, detailing;

- Operator / Owners / Yards
- Facility Name
- Facility Type
- Water Depth
- Location
- Topside / Jacket / Total Weights
- Project Status
- Topside Function
- Install & Decommissioning Year
- Manned / Unmanned / Access Means
- Production / Injection Wells
- Numbers of Piles

Subscriptions can be upgraded to include all platforms worldwide, both operational and planned and data sets from the Offshore Energy Database.

The Infield Energy Data Analysts

Infield has been providing accurate, timely and detailed data and information on the world-wide oil and gas industry since 1986. Now widely acknowledged as one of the definitive independent reference sources, Infield has developed a range of products and services designed to assist senior executives with their business decisions;

- Databases
- Publications
- Analytical Services
- GIS & Online Mapping

Global Perspectives Reports: This is only one in a series of reports;

- Deep & Ultra-deepwater Projects & Technologies
- Deep & Ultra-deepwater Market Update
- Floating Production Market Update
- Subsea Market Update
- Pipelines & Control Lines

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 8,200 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
- Rigid & Flexible Flowlines
- Control Lines & Umbilicals
- Single Point Moorings
- Specialist Vessels
- Field Operators & Ownership

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