

PRESS RELEASE

**BENEFITS OF PIPELINE BUNDLE TECHNOLOGY
HIGHLIGHTED IN SUBSEA 7 PAPER AT OFFSHORE EUROPE 2013**

Subsea 7, a global leader in seabed-to-surface engineering, construction and services to the offshore energy industry, will kick off its technical presentation campaign at this year's Offshore Europe event in Aberdeen with the first of two conference papers on 4 September.

Martin Goodlad, Subsea 7's Bundles Design Manager, will present a paper on "Bundle Technology for the Future" – a theme which is carried over onto the company's stand (1D41).

As part of the conference's session "Advances in subsea construction and technology", Martin Goodlad's paper will cover the following:

Paper Reference SPE 166561

Subsea 7 has designed, fabricated and installed Bundles (towed pipeline production systems) for over 33 years, with 70 installed to date.

Over the previous three decades operators choice of Bundles as a field development option has been steady but intermittent. However over recent years Bundles have been embraced by field developers as a technically and commercially attractive solution to allow difficult fields to be developed. They are now being proposed by operators and design houses at concept selection phase.

A cost-effective and attractive alternative for the installation of subsea pipeline systems, the pipeline bundle neatly incorporates all of the structures, valve work, pipelines and control systems necessary to operate a field in one single product delivering significant savings especially when developing difficult or congested fields.

At a time when Subsea 7 is experiencing its busiest ever period for Bundle design/installation – with eight bundles installed in 2011/12, and a further eight installations confirmed for the period to Q2 2015 – this paper discusses the benefits of Bundle technology for rejuvenating and extending existing facilities or new developments. A number of case studies for various operators will be used to demonstrate both the technical and commercial advantages of this development. The paper will also provide more detail on the technical benefits including highly efficient insulation systems, design/construction methods which allow for full integration testing onshore to enable fast hook-up and commissioning offshore, low stress installation method by CTDM (controlled depth tow method) which minimises

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stress and fatigue on internal flowlines, design of Bundle cross-section / system to allow expansion at both ends therefore reducing the need for intermediate expansion pools allowing the efficient design for high pressure / high temperature field developments.

It will also discuss the elimination of the requirement for specialised installation vessels such as Reel-lay, S-lay, J-lay and heavy lift by using readily available vessels.

The presentation will include details of Subsea 7's five year Bundle development initiative which will look at advancing Bundle technology further for HP/HT applications, Deepwater, Condition Monitoring and Electrical Trace Heating.

-Ends-

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Notes to editors:

1. Subsea 7 will have a major presence at this year's event. As well as presenting papers, it will be exhibiting at stand 1D41.
2. Subsea 7 S.A. is a seabed-to-surface engineering, construction and services contractor to the offshore energy industry worldwide. We provide integrated services, and we plan, design and deliver complex projects in harsh and challenging environments.
3. For further information visit www.subsea7.com

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