



In the April issue each year, we present updates from oil and gas pipeline companies working offshore around the world. Coinciding with Offshore Technology Conference (5 - 8 May 2014, Houston), the review provides useful updates and insight into international offshore pipeline activities.



2014
OFFSHORE
Technology **Review**

Canusa-CPS

Canada, booth 3355

A division of ShawCor Ltd., Canusa-CPS is the global leader in the supply of field-applied coating technology and services for the protection of subsea pipelines, where the demands for quality, reliability and proven procedures are of the highest importance.

With the unique ability to provide factory grade field-applied coating materials and the required equipment and services to ensure consistent automation, process control and productivity within offshore production environments, Canusa-CPS is trusted and relied upon by the world's leading offshore pipeline owners and pipelay contractors to deliver time and time again, on the world's largest and most critical projects.

A recent project example was the MEDGAZ project, which included the construction of a deepwater pipeline to bring natural gas from Algeria to Europe. The project is the first at a depth exceeding 2000 m in the Mediterranean Sea. MEDGAZ will supply natural gas directly from Beni Saf on the Algerian coast to Spain at an initial capacity of 8 billion m³/yr.

Given the extremely harsh deepwater environment, the 24 in. OD, 16 000 joint thick steel pipeline was specified to use a thick 3LPP anti-corrosion coating over its entire length to ensure optimal protection from the extreme water pressures involved, as well as from other external forces, such as those resulting from inadvertent impact from fishing trawlers and other items within this high traffic body of water. The project coating specification was consistent in its requirements, including for the coating to be used in the protection of the field joints after pipe welding, to ensure the same effective protection from one end to the other.

In order to match the 3LPP linepipe coating design and performance, the Canusa-CPS GTS-PP factory grade field-applied 3LPP coating technology was chosen. Specifically, an engineered version of the system was used to allow for low installation temperatures, efficient productivity and process control, while achieving the elevated applied coating thickness of 6 mm that

was required for this highly engineered and important deepwater pipeline. Furthermore, as a factory grade 3LPP coating system, GTS-PP is installed with uniform induction heating, which automates the pipe heating process to ensure repeatable bonding and fusion to the pipe and to the adjacent 3LPP linepipe coating for consistent end-to-end pipeline coating performance. 

Offshore industry 2014 prediction

Moving forward, similar pipeline projects will place further demands on automation for application of such coatings to provide even further assurance of factory grade quality and performance on each and every joint. To that end, Canusa-CPS has developed and successfully deployed the patented IntelliCOAT™ system, which automates the installation of factory grade heat shrinkable sleeve systems such as GTS-PE (3LPE) and GTS-PP (3LPP). This provides the added assurance that pipeline owners are looking for in terms of performance and quality, while contributing to improved productivity and cycle time certainty, which is important for pipelay contractors to ensure budgets and schedules are maintained.

With a relentless focus on the introduction of new field-applied pipeline coating technologies and services, such as IntelliCOAT, as well as its factory grade GTS-PE, GTS-PP and HBE coating systems, Canusa-CPS and ShawCor remain committed to moving the pipeline coatings industry forward to meet the demanding requirements for pipeline coatings that continue to emerge as new energy frontiers continue to be explored.



Figure 1. A closer look at the GTS-PP system after installation. The 6 mm thick system used on the project was engineered for maximum productivity with Canusa's patented reduced edge thickness design to optimise fusion to the 3LPP linepipe coating.



Figure 2. Canusa-CPS' patented IntelliCOAT™ system, which automates the installation of heat recoverable, pre-extruded factory grade 3LPE and 3LPP field-applied coating systems.

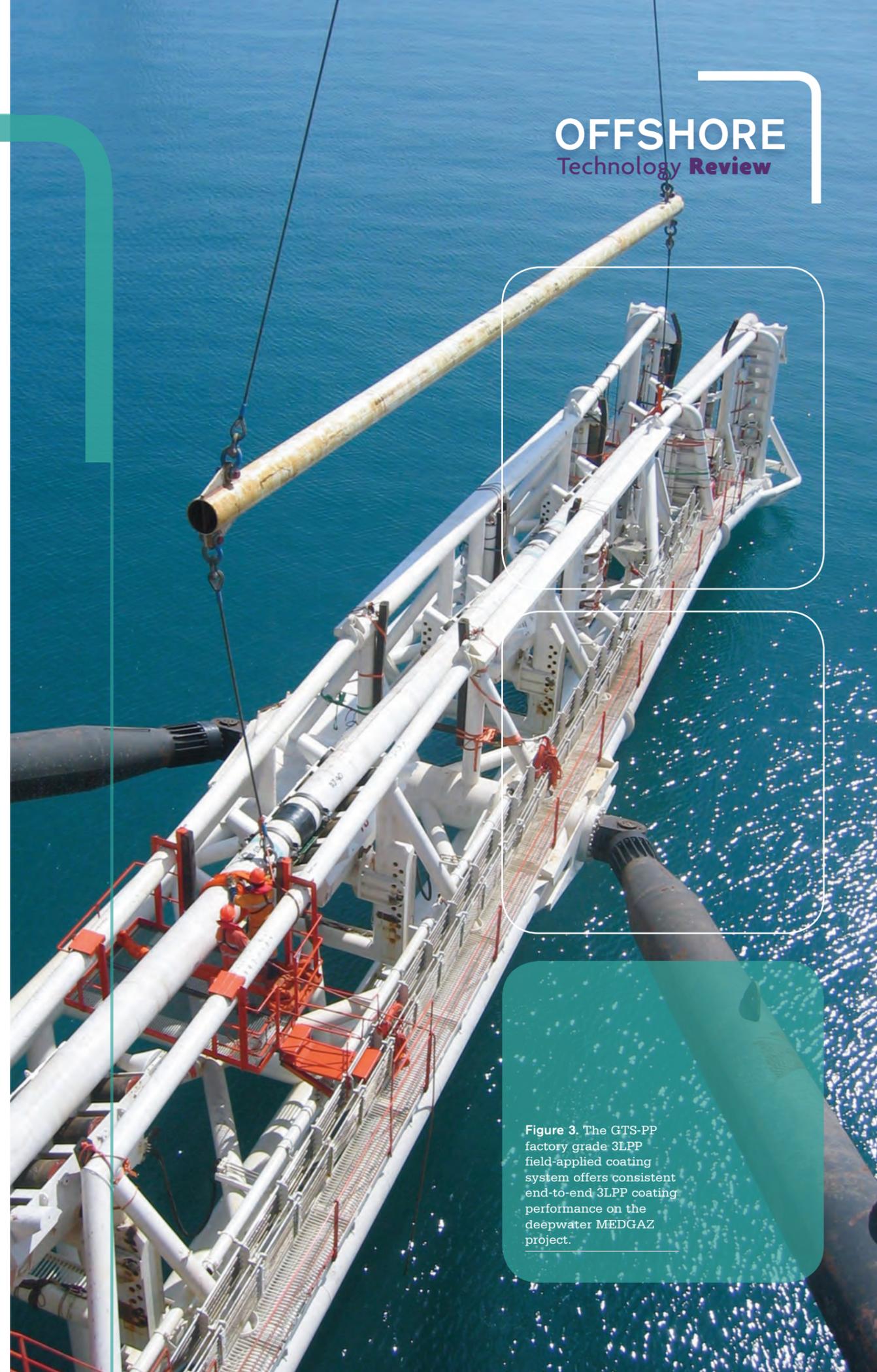


Figure 3. The GTS-PP factory grade 3LPP field-applied coating system offers consistent end-to-end 3LPP coating performance on the deepwater MEDGAZ project.