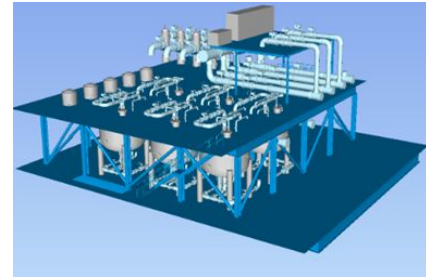
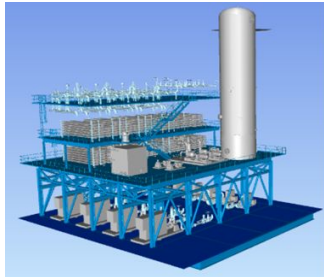
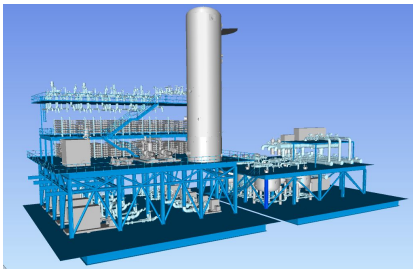


Press release

East Kilbride, Scotland - 15 October 2019

Veolia awarded a multi-million dollar contract for a seawater treatment package for an offshore Guyana FPSO



Veolia Water Technologies, through its subsidiary VWS Westgarth Ltd, has been awarded a multi-million dollar contract by SBM Offshore for the supply of a seawater treatment package for the Liza Unity FPSO, located in the Stabroek block offshore Guyana.

The award is for the design and procurement of equipment with construction technical assistance for a seawater treatment plant sized for 263,244 BPD (41,856 m³/day) of low sulphate water and 31,700 BPD (5,040 m³/day) of reverse osmosis process water for the Liza Unity Floating Production Storage and Offloading (FPSO) unit, which will operate in the Liza Field, offshore Guyana.

The seawater system, provided as two fully-integrated process modules, incorporates the sulphate reduction (SR) nano-filtration membrane process to selectively remove barium and strontium from the injected seawater, preventing the formation of barium or strontium scale in the reservoir or production pipe internals. The SR process leaves the other salts (sodium, chloride, etc.) substantially unaffected, maintaining the stability and permeability of the oil reservoir formation clays.

This is the twelfth contract awarded from SBM Offshore to Veolia and can be attributed to the successes of previous projects executed for the company. Liza Unity FPSO will be the largest capacity FPSO that SBM Offshore has designed. The FPSO will be spread moored in a water depth of 1,633 meters and will be able to store around 2 million barrels of crude oil.

“Liza Unity is a strategic project for SBM Offshore and VWS Westgarth’s knowledge and experience on water treatment systems will be of key importance for the success of the development. The exceptional collaboration and teamwork already put in place by both companies have formed a solid base for a safe and quality-driven delivery of the project scope.”

Luis Ferreira, Package Manager, SBM Offshore

“Liza Unity is a significant project for Veolia as this is the first of SBM Offshore’s Fast4Ward® projects. Fast4Ward aims to standardize FPSOs as far as possible and by securing this contract, we now have the opportunity to deliver a seawater treatment package that exceeds SBM Offshore’s expectations on this project and support a positive future for both parties.”

Daniel Vallance, Manager of Projects, VWS Westgarth Ltd

VWS Westgarth is the world leader in sulphate removal systems, and has an impressive reference list in upstream water treatment applications. Many years of designing and building water treatment and desalination plants means that VWS Westgarth has a thorough understanding of water treatment processes. As part of Veolia Water Technologies, the company is able to utilise the specialist R&D and process abilities of the world's largest water treatment company.

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Veolia Water Technologies provides the complete range of services required to design, deliver, maintain, and upgrade water and wastewater treatment facilities and systems for industrial clients and public authorities. The company's extensive portfolio of technologies features everything from online diagnostic solutions to evaporation and crystallization, energy-producing sludge treatment, state-of-the-art desalination, laboratory-grade water and mobile water services. By optimizing both processes and monitoring, Veolia Water Technologies helps clients reduce their water footprint while generating considerable savings in energy and chemical consumption. www.veoliawatertechnologies.com

Veolia group is the global leader in optimized resource management. With over 171,000 employees worldwide, the Group designs and provides water, waste and energy management solutions which contribute to the sustainable development of communities and industries. Through its three complementary business activities, Veolia helps to develop access to resources, preserve available resources, and to replenish them.

In 2018, the Veolia group supplied 95 million people with drinking water and 63 million people with wastewater service, produced nearly 56 million megawatt hours of energy and converted 49 million metric tons of waste into new materials and energy. Veolia Environnement (*listed on Paris Euronext: VIE*) recorded consolidated revenue of €25.91 billion in 2018.. www.veolia.com

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