

## **FJORDS DELIVERS THE BENEFITS OF MEV TO OSEA DELEGATES**

State-of-the-art ultrafiltration technology which cuts costs, minimizes space and reduces chemical use will be showcased by leading oil and gas company Fjords Processing at a major industry conference this month.

Fjords' compact and innovative multi-element vessel (MEV) design successfully completed qualification testing in Australia this year.

The company, which is one of the world leaders in delivering the complete range of seawater treatment technologies, will outline the benefits of the multi-element approach at a Masterclass to delegates at the 21st OSEA, one of Asia's best known oil and gas events, being held in Singapore from 29 November to 2 December.

Injecting water into a reservoir creates mineral scale that can seriously damage production, so Fjords uses sulphate removal units using very fine 'nano-membrane' filters to prevent this problem. Prior to nanofiltration treatment, the seawater requires pre-treatment. For this, Ultrafiltration or Microfiltration is the method that is most reliable and produces the best performance.

MEV brings traditional single-element ultrafiltration technology to a multi-element system which has been specifically optimised for offshore use, including floating production storage and offloading (FPSO) vessels.

The Fjords ultrafiltration system has 49 membranes per vessel. The membrane base material is PVDF, the strongest and most resilient of the polymers used for membrane manufacture, and the unique support structures make it exceptionally strong, providing long-life performance as well as excellent chemical resistance.

The development of MEVs is part of Fjord's strategy of combining its advanced scientific and engineering know-how, a tight focus on operations and costs and a passion to resolve and add value to complex wellstream challenges under the brand promise of Streamlined Performance.

Michael Breust, Services Manager Asia Pacific at Fjords Processing, said: "Numerous constraints, including cost and limits on space, on offshore platforms and FPSOs, means compact systems and suitable materials are required.

"MEVs are therefore designed to help oil and gas companies requiring lower operating cost, smaller footprint and low chemical consumption."

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