

## PROSERNAT, Jangkrik project - Indonesia

Prosernat is currently manufacturing a monoethylene glycol (MEG) regeneration and reclamation module for the Eni Muara Bakau-operated Jangkrik gasfield development, 70 km (43 mi) offshore Borneo, Indonesia. It will be the first unit of its type ever deployed in Southeast Asia - according to Prosernat.

The 500 ton modular unit, built in a yard in Batam, Indonesia will be installed on the Jangkrik Floating Production Unit, constructed by the Saipem Tripatra Chiyoda joint venture. This is due to enter service in 2016. The equipment will be used to purify MEG that will be injected at the wellhead to inhibit formation of hydrates and resultant freeze-up of the subsea flowlines. It will treat the mixture of MEG, salts and formation water returning to the FPU, removing the salts and water to recover more than 99.5% of the MEG into the lean MEG. The extracted salts will be unloaded onto barges for further treatment onshore.

Other benefits, Prosernat claims, include a greatly reduced risk of corrosion of both subsea and onshore pipelines; significantly reduced fouling and scaling; and smaller circulating volumes in the glycol loop because of the reduced quantities of water, salt and other injected chemicals.

The module was adapted into a compact integrated design which measures 13 m wide x 13 m long by 14 m high (42.6 x 42.6 x 46 ft) in order to fit space constraints onboard the FPU. It is designed to feed through rich MEG at a rate of 11 cu m/hr, and to remove salts at a rate of 80 kg/hr. The unit uses the process developed in the 1990s by CCR Technologies in Canada – Prosernat is the exclusive licensor of this patented technology.