



Veolia MPPE Technology

Statoil Kollsnes LNG - Norway

Statoil Kollsnes processing plant of offshore gas

Kollsnes Norway

- 143 million standard cubic meters gas per day from 5 platforms.
- Existing Bio-treatment collapsed due to toxicity of produced water.
- Upstream installation of a mobile MPPE unit
- MPPE removes toxic contents.
- Bio-treatment recovered within 3 months
- Mobile unit was replaced by a permanent unit after 6 years.
- Publication Statoil TÜV-NEL Kuala Lumpur 2006.



Challenge

- Treatment of Gas Produced Water and Site WW.
- MPPE with Boiler Feed Water (RO) unit and Steam Boiler integrated in one module according to strict Norwegian (Norsok) and Statoil standards.



Performance

MPPE removes >99% of:

- Dispersed oil (aliphatics)
- Dissolved and dispersed aromatics (BTEX)
- Poly Aromatics (PAHs)

MPPE Unit capacity 20 m³/h

- Removing toxic content prior to bio treatment
- Full run test before shipment
- Size 15 x 5 x 11 m (L x W x H)
- Operational since 2011 to full satisfaction of client

The MPPE process

MPPE stands for Macro Porous Polymer Extraction. Polymer beads contain a specific immobilized extraction liquid. Hydrocarbon contaminated water is passed through a column packed with MPPE particles. The hydrocarbons are extracted from the water at any designed efficiency up to 99.999%. The MPPE particles can simply be regenerated by heating with steam. The removed hydrocarbons are recovered as an almost 100% pure product. No other waste stream is created. No chemicals requires, no off gasses produced.

MPP & TiPSS Technologies

Veolia Water Technologies
 Techno Center Netherlands B.V.
 Celsiusstraat 34
 6716 BZ Ede
 The Netherlands
 Phone: +31 (0) 318 664010
 Email: mpps@veolia.com
 www.mpptechnology.com & www.tipsstechnology.com