Shell Ormen Lange
Natural Gas Project
Nyhamna Norway
- World’s most challenging gas field development project
- Makes Norway world’s largest exporter of natural gas
- Largest industrial project ever carried out in Norway
- 100 kilometer from the northwest coast of Norway
- January 2008 on stream

Challenge
- Treatment of Gas Produced water and site waste water
- Bio- treatment downstream
- Veolia MBBR technology
- highest level of coastal discharge standards.

Performance
MPPE unit removes >99% of:
- Dispersed oil (aliphatics)
- Dissolved and dispersed aromatics (BTEX)
- Poly Aromatics (PAHs)

MPPE unit capacity 70 m³/hr
- MPPE unit with steam boiler located in a separate skid
- Full run test before shipment
- Size MPPE skid 11 x 10 x 16 m (L x W x H)
- In operation since 2008 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: mppsystems@veolia.com
www.mpptechnology.com & www.tipsstechnology.com