



## Veolia MPPE Technology

## Inpex Ichthys LNG - Australia

### Inpex Ichthys Project

#### Browse Basin

220 km of Western Australia



- 8.9 million tons LNG/year; 1.6 million tons LPG/year; 100.000 barrels Condensate/day.
- Central Processing Facility on Semi-Submersible Platform separates Condensate and Gas. Gas is sent by pipeline to Darwin. Condensate is stored on FPSO.
- The MPPE unit is located on the FPSO.

### Challenge

- Removal of dispersed and dissolved toxic content to reach Zero Harmful Discharge
- Fulfilling discharge requirements for the operational lifetime of 40 years



#### 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 required, no off gasses produced.



### Performance

#### MPPE unit removes > 99% of:

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

#### MPPE unit capacity 2 x 90 m<sup>3</sup>/h

- 2 Parallel MPPE units in one module
- Single step treatment before discharge to Sea
- Located on Top Deck
- Size 18.1 x 16.4 x 18.0 m (L x W x H)
- Delivered 2016

#### MPP & TiPSS Technologies

Veolia Water Technologies  
Techno Center Netherlands B.V.

Celsiusstraat 34  
6716 BZ Ede

The Netherlands

Phone: +31 (0) 318 664010

Email: [mppsistemas@veolia.com](mailto:mppsistemas@veolia.com)

[www.mppstechnology.com](http://www.mppstechnology.com) & [www.tipssstechnology.com](http://www.tipssstechnology.com)