The FPSO main features

Built as Floating Production Storage and Offloading unit (FPSO) in 2008.

Suitable for extreme harsh environmental conditions due to hull strength with double capacity relative to standard Aframax tankers and additional brackets throughout hull structure and fully bracketed forward region.

Operation under UK Safety Case.

ISO 14000 compliant with low environmental impact providing low NOx power generation, ultra low oil-in water produced water clean-up, maximum waste separation.

Dedicated spaces foreseen for additional modules and power/ utility capability increases.

Principal dimensions

- **Deadweight (Tonnes)**: 89,184
- **Hull type**: Double Hull Aframax size suitable for Norwegian Seas
- **Dynamic Positioning**: DP1
- **Storage capacity excl slops**: 604,478 bbls (96,112 m³) in 11 Cargo storage tanks (98%)
- **Offloading**: Tandem offloading

Accommodation

- **84 persons**
- **Helicopter deck**: Qualified for Sikorsky S-61 and N/EH 101

Topsides data

- **Total fluids capacity**: 35,000 bpd
- **Crude production**: 30,000 bpd
- **Produced water**: 20,000 bpd
- **Water injection**: 55,000 bpd
- **Seawater treatment**: 55,000 bwpd
- **Gas compression**: 2 x 22.2 MMscfd
- **Gas treatment**: 35 MMscfd (dehydration)

Material selection

- **NACE MR 01-75**

Power generation

- **2 x 10 MW Gas turbine**
- **2 x 5.4 MW Diesel Generator**

Topsides motor drives

- **450 HP**

Turret mooring data

- **Turret type**: Disconnectable internal turret
- **3x3 mooring system**
- **Number of riser slots including umbilicals**: 11

Specifications

<table>
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<tr>
<th>Port of Registry</th>
<th>Curaçao, Willemstad</th>
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<tr>
<td>Flag state</td>
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<tr>
<td>Converted to FPSO</td>
<td>Sembawang shipyard Singapore 2006-2008</td>
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For more information, visit [www.bluewater.com](http://www.bluewater.com) or contact [info@bluewater.com](mailto:info@bluewater.com) at +31 23 23 711 5500.
Shuttle tankers
Offloading can be carried out to bow loading shuttle tankers.

Topsides equipment
The FPSO topsides equipment arrangement shows efficient space utilization and open space allows for additional production equipment to increase the oil/gas production capacity.

Buoy
The buoy is disconnectable and allows the FPSO to hook-up in harsh weather conditions (e.g. winter). The buoy and its SURF (subsea umbilicals, risers, flowlines) configuration can be pre-installed without the FPSO present.

Reinforced hull structure
The FPSO is designed and suitable to operate in extreme harsh environmental conditions, due to highly strengthened and reinforced hull structure throughout.

Aoka Mizu
The Aoka Mizu is a next generation Bluewater designed, built, owned and operated FPSO. The hull was newly built at the Hitachi Zosen Shipyard in Japan, and directly adapted to be finished as an FPSO by integrating a turret moorings foundation grillage to support process topsides and hull upgrades for higher ultimate strength and fatigue capacity. The FPSO is equipped with a disconnectable internal Turret Mooring System (TMS), located afloat of the accommodation enabling passive weathervaning. The mooring legs are connected to the turret and are arranged in a 3x3 configuration, optimized with respect to prevailing wind conditions. In 2009 this FPSO started production on the the Ettrick and Blackbird fields for Nexen Petroleum UK, with excellent operations since.

Dynamic positioning system
The FPSO is equipped with a DP (dynamic positioning) system. It is self-propelled and suitable to execute an autonomous hook-up to the disconnectable buoy.