

# Bluewater finds buyer for FPSO first used in 1997

FPSO is one of two units that Bluewater has been trying for years to redeploy



The Glas Dowr FPSO when it was working at the Kitan field in Timor-Leste. Photo: BLUEWATER

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**Russell Searancke**

Norway Correspondent

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Dutch company Bluewater expects to soon sell one of its floating production, storage and offloading vessels that it has been unable to redeploy.

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# Specifications

## The FPSO main features

The Floating Production Storage and Offloading unit (FPSO) has a strong, reliable and high capacity turret, field proven for North Sea conditions. The process equipment is suitable for a wide range of oil products, from condensate to heavy oil types, suitable for high CO2 content, thanks to the outfitting of exotic materials (duplex).

The hull is strengthened for lifetime extension. Offloading can be carried out to conventional tanker and/or shuttle (bow loading) tanker.

Accommodation is made fit for tropical conditions. The Glas Dowr has a large lay down area with cranes at both sides of FPSO.

Presence of Fast Rescue Crafts at both sides reduce necessity of vessel support.

## General

<b>Port of Registry</b>	Curaçao, Willemstad
<b>Flag state</b>	Netherlands Antilles
<b>Converted to FPSO and upgrades</b>	Harland and Wolff (Belfast), Heerema (Hartlepool) - 1996/1997 Verolme Botlek (Rotterdam), SA-Five (CapeTown-2002 Sembawang-2010)
<b>Classification society</b>	LRS
<b>Class Notation</b>	O1 100 AT, Floating Production and Storage Installation for service area Kitan Field, OIWS, LI, OMC, IGS

## Principal dimensions

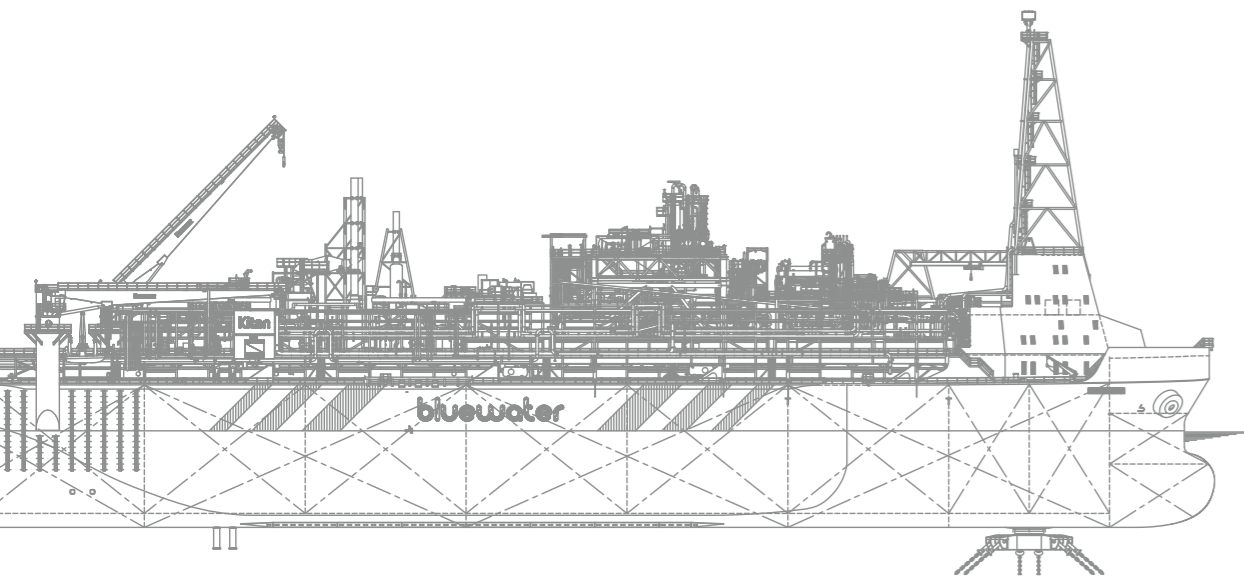
<b>Deadweight [Tonnes]</b>	89,384
<b>Hull type</b>	Double hull Aframax size suitable for North Sea
<b>Dynamic Positioning</b>	No
<b>Storage capacity excl slops</b>	660,000 bbls (105,181 m <sup>3</sup> ) in 13 Cargo storage tanks (98%)
<b>Offloading</b>	Tandem offloading
<b>Accommodation</b>	80 persons
<b>Helicopter deck</b>	EH101 max 14290 kg D value 22.8 m

## Topsides data

<b>Total fluids capacity</b>	75,000 bpd
<b>Crude production</b>	60,000 bpd
<b>Produced water</b>	65,000 bpd
<b>Water injection</b>	85,000 bpd
<b>Seawater treatment</b>	85,000 bpd
<b>Gas compression</b>	4 x 13 MMscfd
<b>Gas treatment</b>	22 MMscfd (dehydration)
<b>Material selection</b>	NACE MR 01-75
<b>Power generation</b>	4 x 5.2 MW Gas Turbine 1 x 6.3 MW Diesel Generator
<b>Topsides motor drives</b>	Electric

## Turret mooring data

<b>Turret type</b>	Internal turret with 3x3 mooring system
<b>Number of riser slots including umbilicals</b>	17



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+31 23 711 5500  
info@bluewater.com  
www.bluewater.com

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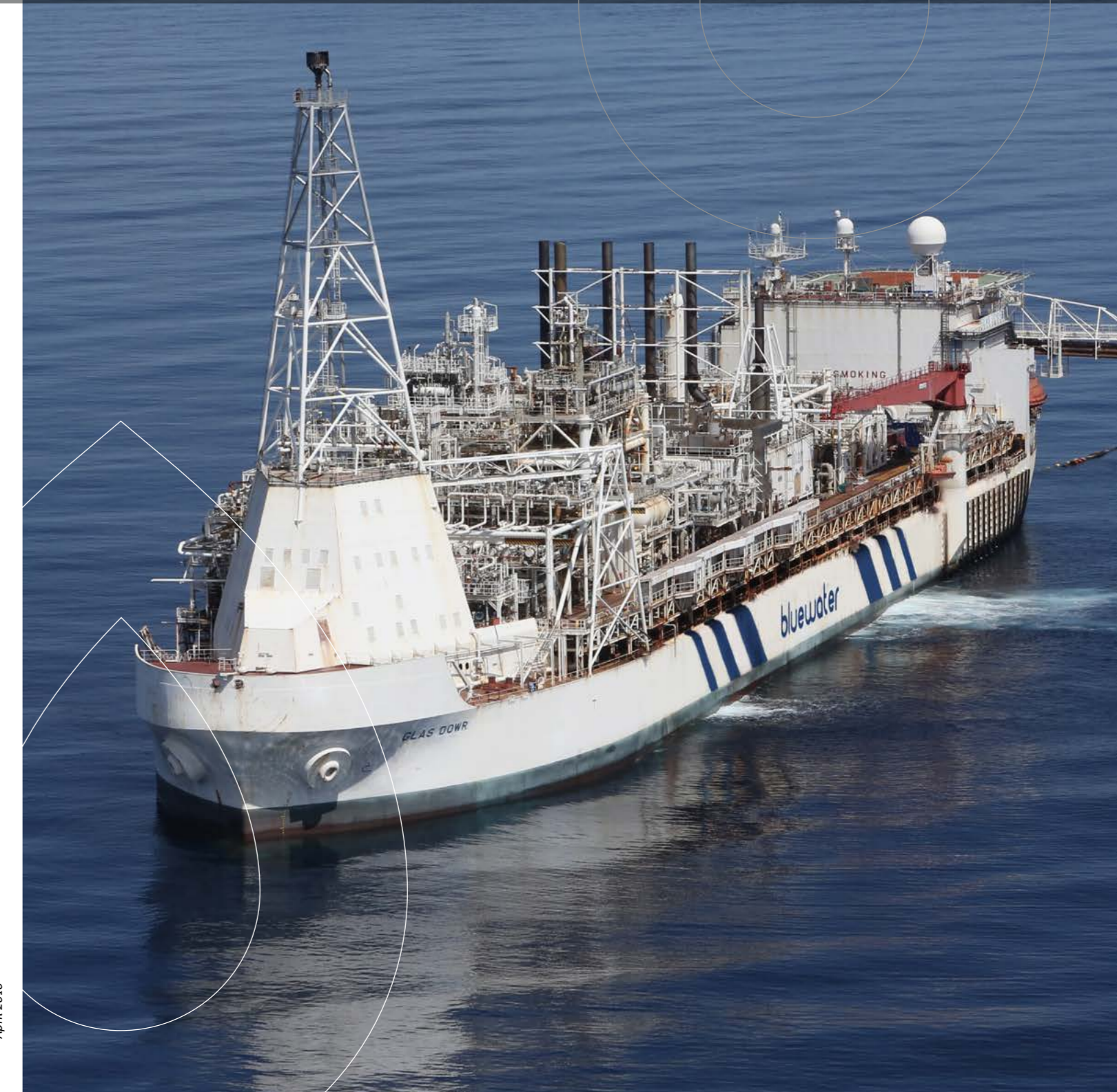
# FPSO Glas Dowr

## References



- Bluewater offices
- FPSO/FSO
- Turret Mooring Systems
- CALM Buoy Systems
- Multi Buoy Systems
- Tower Loading / Mooring Systems

April 2016



# Glas Dowr

The FPSO Glas Dowr has been converted from an intercept, newly built oil tanker to an FPSO in the UK, in 1995. In 1997, the Glas Dowr first commenced operations on oil fields on the UK shelf of the North Sea. From then onwards, it operated in the harsh environments offshore South Africa,

and Australia, until end of 2015. It has been proven to be a reliable and flexible FPSO with high production uptimes. The FPSO Glas Dowr is employable in harsh environments in a wide range of fields around the world.

## Double hull AFRAMAX size tanker

The FPSO Glas Dowr is a double hull AFRAMAX size tanker. The FPSO is equipped with fully segregated ballast tanks arranged in the wing tanks and double bottoms, and in the fore and aft peak so as to control stability and weight distribution but also to provide a protective location for the crude oil storage tanks.

## Internal turret mooring system

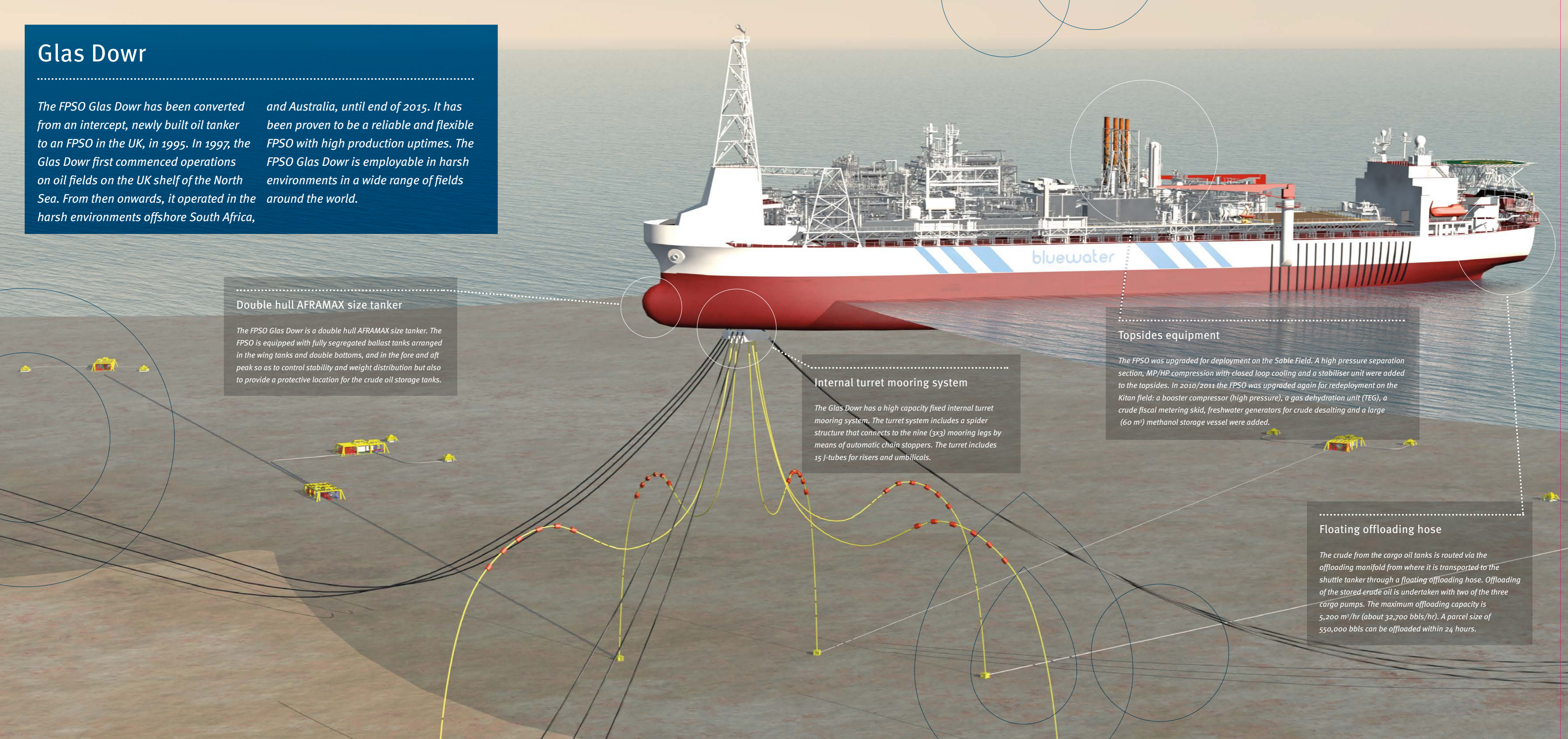
The Glas Dowr has a high capacity fixed internal turret mooring system. The turret system includes a spider structure that connects to the nine (3x3) mooring legs by means of automatic chain stoppers. The turret includes 15 J-tubes for risers and umbilicals.

## Topsides equipment

The FPSO was upgraded for deployment on the Sable Field. A high pressure separation section, MP/HP compression with closed loop cooling and a stabiliser unit were added to the topsides. In 2010/2011 the FPSO was upgraded again for redeployment on the Kitan field: a booster compressor (high pressure), a gas dehydration unit (TEG), a crude fiscal metering skid, freshwater generators for crude desalting and a large (60 m<sup>3</sup>) methanol storage vessel were added.

## Floating offloading hose

The crude from the cargo oil tanks is routed via the offloading manifold from where it is transported to the shuttle tanker through a floating offloading hose. Offloading of the stored crude oil is undertaken with two of the three cargo pumps. The maximum offloading capacity is 5,200 m<sup>3</sup>/hr (about 32,700 bbls/hr). A parcel size of 550,000 bbls can be offloaded within 24 hours.





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# GLAS DOWR FPSO

## Data Sheet



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Power by People

## GLAS DOWR FPSO

The GLAS DOWR's main functions are:

- Receipt of fluids from subsea wells
- Control of the subsea wells
- Processing of the incoming fluids for separation into crude, water and gas
- Storage of the stabilised crude oil and maintaining it at the required temperature
- Treatment of effluent for discharge of water to the sea
- Chemical injection
- Provision of water injection facilities
- Offloading of crude into "tandem moored" shuttle tankers
- Power generation for process, gas export, offloading and utilities
- Provide accommodation for operating and maintenance personnel
- Gas lift and gas injection facilities. Part of the gas is used as fuel for power generation
- Provide helideck for helicopter operations

All systems are designed for a minimum annual average production up-time of better than 95%.

VESSEL DATA	
Length	242.3 m
Breadth moulded	42 m
Depth moulded	21.2 m
Dead weight tonnage	89,384 dwt
Deck area	7,985 m <sup>2</sup>
Accommodation	80 persons

PERFORMANCE DATA	
Storage capacities	
Exportable crude	105,181 m <sup>3</sup> (660,000 bbls)
Slop tanks	6,650 m <sup>3</sup> (41,800 bbls)
Diesel Oil	2,650 m <sup>3</sup> (16,770 bbls)

Processing Capacities	
Fluid capacity	75,000 bpd
Crude	60,000 bpd
Produced water (max)	65,000 bwpd
Oil content water discharged	< 15 ppm

Stabilised crude	
RVP	10-12 psia
H <sub>2</sub> S	0 ppm
BS&W	< 0.5 %

Water injection	
Capacity (max)	85,000 bwpd (not in operation)
Design pressure	300 bar
Oxygen content (max)	10 ppb

Gas compression / Treatment	
Compression	4 x 13 MMscfd
Dehydration	22 MMscfd

Power	
Main generators	4 x gas turbine, 1 x diesel
Capacity	4 x 4.7 MW + 1 x 6.3 MW
Emergency generator	1 x 0.5 MW Diesel

Offloading	
Parcel size	500,000 bbls