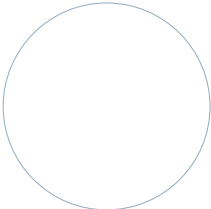
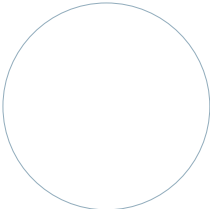
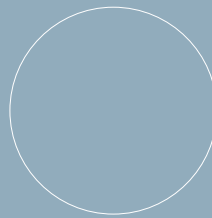
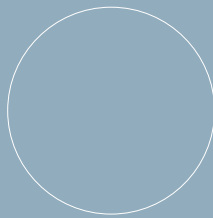


bluewater

# Hæwene Brim FPSO

Pierce field, UK Continental shelf





# Hæwene Brim FPSO

Bluewater owns and operates the FPSO Hæwene Brim for Shell on the Pierce field, North Sea.

## Main functionality

### The Hæwene Brim'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
- Water injection
- Produced gas is reinjected and is utilized as fuel
- Offloading of crude into "tandem moored" shuttle tankers
- Power generation for process, gas re-compression, offloading, utilities and ship systems
- Provides accommodation for operating and maintenance personnel
- Provides helideck for helicopter operations

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

## Vessel data

Length (LOA)	253 m
Breadth moulded	42 m
Depth moulded	23.2 m
Dead weight tonnage	103,854 mt
Deck area	7,280 m <sup>2</sup>
Accommodation	73 persons

### Processing capacities

Fluid capacity	100,000 bpd
Crude	70,000 bopd
Produced water (max)	40,000 bwpd
Oil content water discharged	≤30 ppm

### Power

Main generators	4x gas/diesel
Capacity	4x 5.2 MW
Emergency generator	1x 0.46 MW diesel

### Stabilised crude

RVP	10-12 psi
H <sub>2</sub> S	0 ppm
BS&W	≤ 0.5%

### Offloading

Parcel size	626,000 bbls
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## Location

Location	Pierce field, UK Continental shelf
Water depth	85 m

### Water Injection

Capacity	95,000 bwpd@337 barg
Design pressure	424 barg
Oxygen content (max)	10 ppb

## Performance data

### Storage capacities

Exportable crude (=parcel size)	99,570 m <sup>3</sup> (626,000 bbls)
Slop tanks	3,315 m <sup>3</sup> (20,851 bbls)
Diesel oil	3,000 m <sup>3</sup> (20,100 bbls)

### Gas re-injection

Design pressure	380 barg (max. operation 362 barg)
Capacity	110 mmscfd

Angola    Brazil    China    Malaysia    Nigeria    Russia    The Netherlands    United Kingdom    United States