

SPIRIT ENERGY

INFRASTRUCTURE CODE OF PRACTICE



ASSET: MORECAMBE HUB

The Spirit Energy-operated Morecambe Hub comprises four gas fields in the East Irish Sea within the UK Continental Shelf (UKCS). North Morecambe, South Morecambe and Rhyl are operated by Spirit Energy. The fourth field, Calder, is owned by Harbour Energy and operated by Spirit Energy. Despite producing for over 30 years, it remains a cornerstone operated asset in the Spirit Energy portfolio.

Gas from all the fields is processed at Barrow Gas Terminals, located near Barrow-in-Furness in Cumbria, before entry into the National Transmission System.

KEY FACTS (SPIRIT ENERGY-OPERATED FIELDS):

LICENCE	P.153, P.251, P.1483
BLOCK	110/2a, 110/3a, 110/8a, 113/27b
SECTOR	East Irish Sea (UKCS)
OWNERS / OPERATOR	Spirit Energy Production UK Limited (Op), 100%
APPROX DISTANCE TO LAND	25km
WATER DEPTH	17-35m
HYDROCARBONS PRODUCED	Condensate, gas
EXPORT METHOD	Pipeline
MANNED / UNMANNED	Manned <ul style="list-style-type: none"> • CPC, South Morecambe Unmanned <ul style="list-style-type: none"> • DP3, DP4, South Morecambe decommissioning completed • DP6, DP8, South Morecambe • DPPA, North Morecambe
FIRST PRODUCTION	1985
ACCOMMODATION ON BOARD	Yes - Central Processing Complex (CPC) comprises three bridge linked platforms, including Accommodation Platform 1 (AP1) with max POB 174.

INFRASTRUCTURE INFORMATION:

ENTRY SPECIFICATION	Design conditions: Max 6 mol% CO ₂ 5-10 ppmv H ₂ S
EXIT SPECIFICATION	N/A – processing carried out onshore to meet NTS entry specification and to separate condensate to merchantable quality.
OUTLINE DETAILS OF PRIMARY SEPARATION PROCESSING FACILITIES	Offshore, Manned: Slug catcher & two-phase production separator. Offshore, Unmanned: None Onshore: Nitrogen removal, CO ₂ removal, dewatering, condensate separation and methanol removal

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OUTLINE DETAILS OF GAS TREATMENT FACILITIES

Wet gas exported from the hub is treated through Barrow Terminal where N₂ and CO₂ is removed to redeliver NTS specification sales gas and condensate for road tanker lifting.

HIGH LEVEL CAPACITY INFORMATION - SOUTH MORECAMBE, CPC

PLATFORM FIRM PROCESSING CAPACITY AVAILABLE: SOUTH MORECAMBE, CPC	ULLAGE AS % OF SYSTEM CAPACITY					COMMENT
	2026	2027	2028	2029	2030	
OIL EXPORT CAPACITY	N/A	N/A	N/A	N/A	N/A	Do not export crude oil but do export liquid hydrocarbon condensate. 40m ³ /h max reinjection capacity.
GAS COMPRESSION CAPACITY	●	●	●	●	●	Design capacity is 1800 MMScfd.
GAS EXPORT CAPACITY	●	●	●	●	●	860 MMScfd.
GAS LIFT CAPACITY	N/A	N/A	N/A	N/A	N/A	No gas lift.
PRODUCED WATER HANDLING CAPACITY	●	●	●	●	●	
DEHYDRATION CAPACITY	N/A	N/A	N/A	N/A	N/A	Dehydration system decommissioned.
H ₂ S REMOVAL CAPACITY	N/A	N/A	N/A	N/A	N/A	No H ₂ S removal.
WATER INJECTION CAPACITY	N/A	N/A	N/A	N/A	N/A	No water injection.

HIGH LEVEL CAPACITY INFORMATION - NORTH MORECAMBE, DPPA

PLATFORM FIRM PROCESSING CAPACITY AVAILABLE: NORTH MORECAMBE, DPPA	ULLAGE AS % OF SYSTEM CAPACITY					COMMENT
	2026	2027	2028	2029	2030	
OIL EXPORT CAPACITY	N/A	N/A	N/A	N/A	N/A	No separation – wet gas export.
GAS COMPRESSION CAPACITY	N/A	N/A	N/A	N/A	N/A	No compression.
GAS EXPORT CAPACITY	●	●	●	●	●	Design capacity of export is 588 MMScfd.
GAS LIFT CAPACITY	N/A	N/A	N/A	N/A	N/A	No gas lift.
PRODUCED WATER HANDLING CAPACITY	N/A	N/A	N/A	N/A	N/A	No separation – wet gas export.
DEHYDRATION CAPACITY	N/A	N/A	N/A	N/A	N/A	No dehydration.

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H ₂ S REMOVAL CAPACITY	N/A	N/A	N/A	N/A	N/A	No H ₂ S removal.
WATER INJECTION CAPACITY	N/A	N/A	N/A	N/A	N/A	No water injection.
OUTLINE DETAILS OF GAS TREATMENT FACILITIES						Gas is being treated through Barrow Terminal where N ₂ and CO ₂ is removed

HIGH LEVEL CAPACITY INFORMATION – NORTH TERMINAL

TERMINAL FIRM PROCESSING CAPACITY AVAILABLE:	ULLAGE AS % OF SYSTEM CAPACITY					COMMENT
	2026	2027	2028	2029	2030	
GAS COMPRESSION CAPACITY	●	●	●	●	●	Capacity of FGC is ~238 MMSCFD
GAS EXPORT CAPACITY	●	●	●	●	●	Design capacity is 1800 MMScfd.
H ₂ S REMOVAL CAPACITY	N/A	N/A	N/A	N/A	N/A	No H ₂ S removal. H ₂ S Removal can be provided through Rivers Terminal (3rd Party)
N ₂ REMOVAL	●	●	●	●	●	2x Nitrogen Removal Units that can be run in parallel if required, but this is not standard operating practice
CO ₂ REMOVAL	●	●	●	●	●	Single CO ₂ Removal Train Capacity used by producing field with high CO ₂ content
DEWPOINT CONTROL	●	●	●	●	●	Capacity available is dependent on composition
CONDENSATE PROCESSING	●	●	●	●	●	Constrained by road tanker loading operations

ULLAGE AS % OF SYSTEM CAPACITY			
RED	<	5%	●
AMBER	5%	25%	●
GREEN	>	25%	●

CONTACT INFORMATION

Donna Skinner, Commercial Director
donna.skinner@spirit-energy.com