

## Upstream Assets

### Section 1: Overview

We have set out in the table below key information in respect of our material upstream asset.

Further detail on the running and operation of this asset is provided in section 2.

Asset Name	Entry Point	Terminal ID	Production Capacity (MCM)	Market Area	Configuration
Morecambe Fields	Barrow Terminal	BRSNST	7.7	NBP/UK	Seven fields; North Morecambe, South Morecambe, Rhyl, Millom, Dalton, Rivers and Bain.  Two sub-terminals, described in further detail below.

### Section 2: Detailed Information

#### (i) Barrow Terminal (comprising North and South sub-terminals)

Barrow Terminal is split into two separate sub-terminals known as North and South Morecambe Terminals. South Morecambe Terminal processes gas from the South Morecambe and Bains fields, while North Morecambe Terminal processes gas from North Morecambe, Rhyl, Millom and Dalton fields. A separate section of North Morecambe Terminal also processes gas from the Rivers fields.

The SMUG (South Morecambe Unprocessed Gas) pipeline connects South and North Morecambe Terminals, allowing a proportion of gas to flow from South Morecambe field through the North Morecambe Terminal processing plant.

Due to the configuration of Barrow Terminal, Centrica has decided to make REMIT disclosures only in respect of a change in flows at the aggregate level of North Morecambe Terminal, rather than at the individual field level. This is because the majority of the gas flowing into the Barrow Terminal is processed at North Morecambe Terminal before entry into the National Transmission System (**NTS**). Centrica considers that a change in flows at either the individual field

level or at the aggregate South Morecambe Terminal level would not, under normal market conditions, be of a sufficient magnitude to be able to constitute inside information pursuant to REMIT. However, any information in respect of North Morecambe Terminal that we consider to be inside information pursuant to REMIT will be published to the Centrica REMIT webpage.

**(ii) North Morecambe field**

North Morecambe field has a higher concentration of carbon dioxide and nitrogen than South Morecambe field, and so it requires the use of a Nitrogen Removal Unit (**NRU**) to remove excess nitrogen. After an outage, a proportion of South Morecambe gas is flowed through the SMUG pipeline to North Morecambe terminal to start the NRU, which can take an unspecified period of time to cool down sufficiently to increase gas flows.

**(iii) South Morecambe field**

South Morecambe field is a conventional field which produces large volumes of gas. This gas is blended with flows from North Morecambe Terminal before entry into the NTS.

**(iv) Rhyl**

Rhyl is a small, conventional field which delivers gas via North Morecambe gas field.

**(v) Millom and Dalton**

Millom and Dalton (commonly known together as 'BRIS') are two small fields that are owned by ConocoPhillips but which Centrica operates. They deliver gas via North Morecambe gas field.

**(vi) Rivers**

Centrica operates Rivers gas field, although it is owned by ConocoPhillips. Due to high levels of hydrogen sulphide (**H<sub>2</sub>S**) in the gas that these fields produces, it requires its own processing plant to convert the H<sub>2</sub>S into sulphuric acid before the gas flows to North Morecambe terminal for further treatment.

**(vii) Bains**

Bains gas flows through to South Morecambe field before being processed at South Morecambe Terminal, but has not produced any gas since 9 January 2010.

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