

OIL AND GAS CAPABILITIES

Shetland



Highlands and Islands Enterprise
Iomairt na Gàidhealtachd 's nan Eilean



Oil and gas fabrication, Lerwick

SHETLAND OIL AND GAS CAPABILITIES

Introduction

Shetland is one of the most remote and beautiful places in the British Isles, characterised by rolling hills, beaches and a geologically diverse coastline that holds the best naturally occurring ports in Scotland. Shetland has a long history in the oil and gas industry and has developed a strong local supply chain and an experienced work force. The island is ideally located to take advantage of the future developments in the North Sea and west of Shetland.

The oil and gas industry already takes advantage of Shetland's key location with North Sea oil and gas coming to Sullom Voe Terminal where it is stored and loaded onto tankers to export. The new Laggan and Tormore project will extract gas from Laggan and Tormore Fields which will be transported to a new gas processing plant. The gas will then be exported through a new pipeline, which will link into the existing Frigg UK pipeline and will arrive at the TOTAL gas processing plant at Peterhead.

SHETLAND AT A GLANCE

2011 POPULATION
23,167

AREA
144,000 hectares

DISTANCE FROM ABERDEEN
260 miles

MAJOR SETTLEMENTS
Lerwick, Scalloway and Brae

KEY PORTS
Lerwick, Sullom Voe and Scalloway



Mareel

Demographics

In 2011, Shetland had a population of around 23,167 people; with 28.2% of the population living in Lerwick. Shetland is the only local authority in Scotland to have more males than females, which reflects the unique nature of the area to attract working age men. Working men comprised 33.4% of Shetland's population in 2011. The employment rate on Shetland was 81.3%, higher than the Scottish average.

Education

There are two institutions in the University of the Highlands and Islands in Shetland, Shetland College and NAFC Marine Centre. The Marine Centre offers training, R&D, knowledge exchange services, consultancy, and modern facilities to support Shetland's maritime industries. Shetland had a greater proportion of residents with HND qualifications than the rest of the Highlands and Islands in 2011.

Quality of Life

Shetland has an extraordinary cultural and natural heritage, with nature reserves, museums and archaeological sites. With services such as the Mareel creative industries centre, Shetland offers a remote island lifestyle with modern facilities and Mareel provides a year round programme of film, live music, education and other performance events. Shetland also has a network of eight leisure centres in Shetland providing first class swimming and sports facilities across the Islands.

Health quality, life expectancy, education, employment and lack of crime – Shetland 'tops the scale' (Aberdeenshire second, Orkney third).

The latest Bank of Scotland rural areas quality of life survey found that 93% of Shetland residents reported themselves as in good or fair health. People live longer here too, on average to 77.

Shetland also has the highest number of state-of-the-art leisure centres per head of population in Europe, a clean environment and a close-knit caring community.

Transport Links

There are flights to Shetland from Glasgow, Edinburgh, Inverness, Aberdeen, Bergen (Norway), with some routes stopping in Kirkwall (Orkney), flights are operated by Flybe. Ferry services operated by Northlink depart from Aberdeen 7 nights a week.

Supply Chain

Shetland is supply chain has 40 years experience in the oil and gas industry and a track record in decommissioning and renewables. Opportunities exist within oil and gas developments in the West of Shetland and Northern North Sea, decommissioning and renewable energy. A comprehensive supply chain for Shetland can be viewed at www.hi-energy.org.uk and www.energynorth.co.uk/Documents/Fabrication-Doc-2013-Final-Version.aspx



Lerwick Harbour - total quay availability at Greenhead Base extends to over 780m

LERWICK HARBOUR

Lerwick is the main commercial port for Shetland and a vital component in the islands economic infrastructure. The harbour has been involved in much ambitious and far-sighted development during the past four decades and is one of the principal ports involved in servicing offshore oil and gas operations in the East and West Shetland basins.

Lerwick is a well established deep-water port, host to a variety of vessels such as oil and gas, decommissioning, cargo, fishing cruise ships and leisure craft. The multi-purpose base includes decommissioning and fabrication facilities, engineering works, offices and warehousing, lifting and distribution, plus open storage and laydown. The harbour is ideally situated to service operations in the North Sea and Atlantic.

The advantages of the port's strategic proximity to oil and gas operations in the northern North Sea and Atlantic are complemented by well-developed facilities and services, making it one of the country's leading marine centres for industry.

LERWICK HARBOUR A GLANCE

OWNERSHIP
Lerwick Port Authority

WATER DEPTH AT QUAYSIDE
3m-12.5m

VESSEL ACCESS
Unlimited

Clear approaches in excess of 50m water depth, with sheltered anchorages within port limits

PLANNING STATUS
Development Plans for deep-water quayside / extensive laydown areas

QUAYSIDE LENGTH/WEIGHT BEARING
3,892m of quayside, with multiple options for heavy-lift berthing



Lerwick Harbour - capacity to support a wide range of oil and gas support both onshore and offshore

Craneage

100 tonne harbour crane, mobile cranes up to 250 tonnes plus 1,000 tonne crane located at Greenhead Base.

Utilities and Facilities

- Almost 4,000m of quayside
- 1,300m of deep-water berthing
- 12.5m water depth alongside
- Deep-water anchorages over 50m
- Multiple heavy-lift berthing options and capabilities
- Full service base
- Licensed decommissioning pad (SEPA Approved)
- Over 120,000m² of open storage and laydown
- Cargo and container handling
- Workshops, warehousing and utilities
- Quayside waste management, recycling with modern landfill site and local disposal routes
- Fuel bunkering and fresh water supplies
- Hydraulic and fixed linkspans
- Pilotage and towage
- Public weighbridge
- Absorbents/spill kits
- Diving and surveying
- Ships' agencies

Transport Links

Centred between the North Sea and North – East Atlantic, Lerwick Harbour is Scotland's most northerly commercial port. With two entrances, natural sheltered deep-water berthing and anchorages, it's open to all shipping in all weathers and operates around the clock, handling over 5,000 vessels per year. There are daily overnight ferry sailings to Aberdeen, plus daily mainland flight options from Sumburgh airport located only 25 miles/40km south of Lerwick.

Contact

Sandra Laurenson

T +44 (0)1595 692991

E slaurenson@lerwick-harbour.co.uk



Scalloway Harbour

SCALLOWAY HARBOUR

SCALLOWAY HARBOUR AT A GLANCE

OWNERSHIP

Shetland Islands Council

WATER DEPTH AT QUAYSIDE

Varies from 3.5 - 7.0m chart datum

VESSEL ACCESS

Vessels up to 150m LOA can be accommodated

Access channel depth 8.7m

PLANNING STATUS

A Master Plan is being developed

QUAYSIDE LENGTH/WEIGHT BEARING

1020m/commercial quay can accept crane anchorage loads to 1500Kn

Scalloway is an important harbour which is located on the West coast of the Shetland mainland. It is ideally situated for servicing oil related shipping in the West of Shetland oil fields and the Shetland fishing fleet. It is only 50 miles from the Clair oil and gas field, 85 miles from the Schiehallion and Foinhaven oil fields and 180 miles from Aberdeen.

Craneage

Mobile craneage up to 250 tonnes is available.

Utilities and Facilities

- Electric power
- Medical facilities
- Pilotage available for crew changes and harbour assistance
- Harbour tugs up to 90 tonnes bollard pull can be provided by arrangement
- Bunkers, fresh water, diving, waste disposal, ship repair, rigging, chandlery and fuel services are available through local agencies and suppliers
- Extensive, modern warehouse and secure open storage facilities are available
- Ocean towage services and harbour support craft are available by arrangement

Transport Links

Scalloway is situated 7 miles West of Lerwick, the capital of Shetland, with daily passenger Ro/Ro ferry links to Kirkwall in Orkney and Aberdeen. There are regular flights from Sumburgh airport, 26 miles south of Scalloway to Orkney, Aberdeen, Glasgow, Edinburgh and Inverness, enabling international connections for crew.

Contact

Scalloway Harbour Office

T +44 (0)1595 744221

E scalloway.harbour@shetland.gov.uk



Sullom Voe oil terminal

SULLOM VOE PORT AND SELLA NESS INDUSTRIAL AREA

SULLOM VOE PORT AND SELLA NESS AT A GLANCE

OWNERSHIP

Shetland Islands Council - Ports and Harbours

WATER DEPTH AT QUAYSIDE
9m

VESSEL ACCESS

Vessels up to 130m length at Sella Ness

Four tanker jetties at the Sullom Voe Oil Terminal, one of which is available for ship-to-ship transfer operations

PLANNING STATUS

A master plan is currently being developed

QUAYSIDE LENGTH/WEIGHT BEARING

Construction jetty south facing: 77m

Construction jetty north facing: 97m

Tug jetty northwest: 65m
Tug jetty northeast: 88m

Weight limitations: none, but bunker tankers of 20T can easily use the pier.

Sullom Voe port is primarily a major deep-water commercial tanker port. It provides sheltered access to the Sullom Voe Oil Terminal and the Sella Ness Industrial Estate. The port is suitable for large/deep-draughted vessels and coastal traffic and is well lit. The Sullom Voe oil and gas complex is operated by BP Petroleum Development Ltd on behalf of several oil companies. The oil reaching Sullom Voe through the Brent and Ninian pipelines is collected from a group of oilfields in the East Shetland Basin. Recently the Clair oilfield to the west of Shetland and shuttle tankers from the Schiehallion oilfield, have been delivering oil to Sullom Voe. This oil is loaded out for worldwide distribution. The inner harbour at Sella Ness is sheltered and suitable for barge and lightering operations. Sella Ness is situated 29 miles north of Lerwick and offers a wide range of local services available through local agents. Sella Ness is in an ideal location for businesses working in the energy industry.

Craneage

Mobile cranes up to 250 tonnes can be arranged.

Utilities and Facilities

- Boat lift
- Containers
- Fresh water by arrangement
- Heavy plant and machinery
- Launches
- Mineral handling
- Mooring
- Concrete pier with a fixed Ro/Ro ramp,
- 20 tonnes m² lift pad and adjacent lay down areas
- Vessel traffic service
- Pilotage and tug service, two tugs with bollard pull up to 56 tonnes, and two with bollard pull up to 90 tonnes
- Wide variety of local port services including diving and engineering are available through local agents

Transport Links

Sullom Voe and Sella Ness Industrial Estate is 51 miles North of Sumburgh Airport and 3 miles away from Scatsta Airport. The area is situated 29 miles North of Lerwick. There are modern road and ferry links to all parts of Shetland.

Contact

Sullom Voe Harbour Authority
Port Administration Building
Sella Ness
Sullom Voe
Shetland ZE2 9QR
T +44 (0)1806 244200
E port.reception@shetland.gov.uk

For more information please contact:

The Energy Team

Highlands and Islands Enterprise

T +44 (0) 1463 234 171

E energy@hient.co.uk

Highlands and Islands Enterprise, Cowan House,
Inverness Retail and Business Park, Inverness,
IV2 7GF, Scotland

Printed October 2013



Highlands and Islands Enterprise
Iomairt na Gàidhealtachd 's nan Eilean