THE GREATER LAGGAN AREA

DESCRIPTION

The Greater Laggan Area consists of four producing subsea fields (Laggan, Tormore, Glenlivet and Edradour) that are tied back to the Shetland Gas Plant (SGP) at Sullom Voe on the Shetland Islands via a long-distance 143 km flowline system.

Identical template manifolds are installed on both the Laggan and Tormore fields (6 slot) and the Glenlivet and Edradour fields (4 slot), with the template concept driven by a need for high reliability in the harsh weather environment. These manifolds tie-in to dual 143km 18" diameter multi-phase flowlines that deliver hydrocarbons to the SGP. The Tormore manifold sits at the far extremity of the pipeline with Laggan 16km further downstream. The Glenlivet and Edradour manifolds tie-in to the main flowline via 35km and 17km 12" flowlines respectively.

Production is commingled and processed through the SGP. Production from the subsea fields is measured by multiphase flow meters. Discrete metering packages report production streams before custody transfer of condensate to the Enquest operated Sullom Voe Terminal for processing and re-delivery; and gas for export into the FUKA Pipeline System via the Shetland Island Regional Gas Export System (SIRGE System).

First gas from Laggan and Tormore was achieved in 2016, with the follow-on Edradour and Glenlivet fields brought onstream in 2017.

Provisions for Third Party Access

The Greater Laggan Area facilities form a major infrastructure development intended to export "stranded" gas from the West of Shetland region to the National Grid gas entry point at St Fergus. In order to accomplish this ambition, the Greater Laggan Area facilities are designed to accommodate gas from 3rd parties wishing to enter the system for transportation and/or processing. The key elements of this design philosophy are as follows:

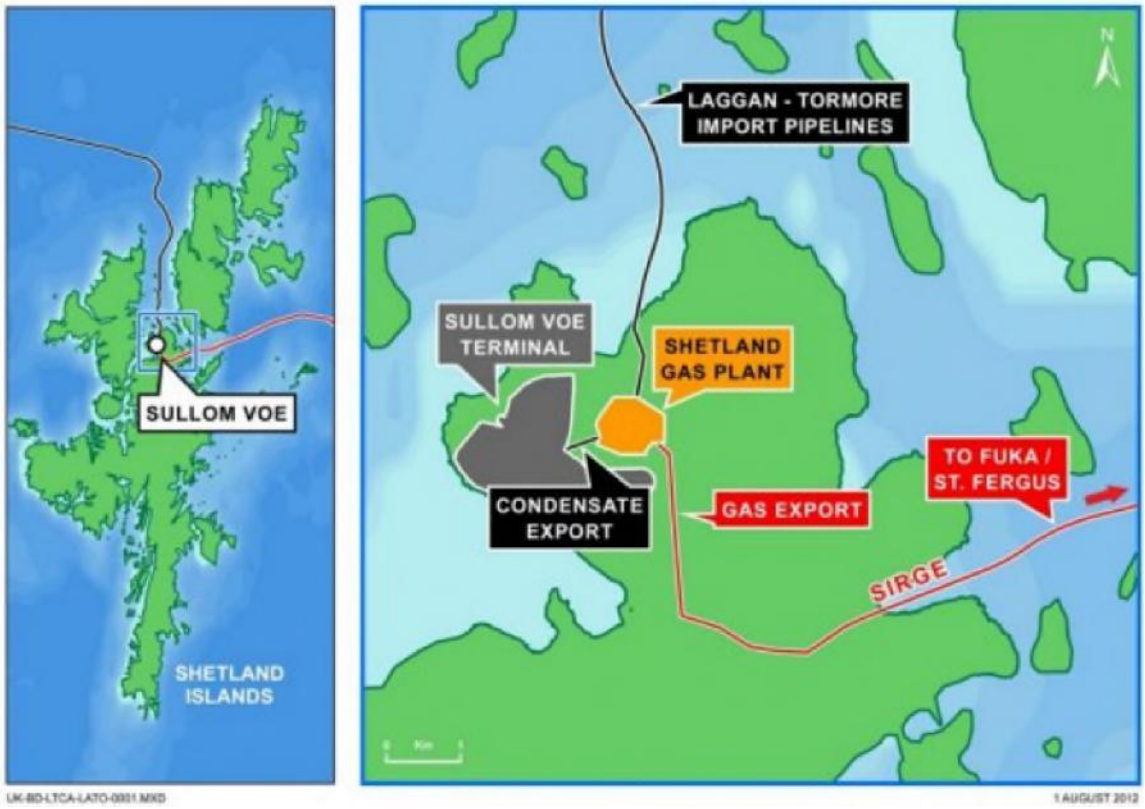
- Tie-in points available across the Greater Laggan Area manifolds.
- Spare capacity in the umbilical to add additional satellite developments.
- Hot-tap Ts for tie-in to the multiphase pipelines between Laggan and SGP (3 on each flowline and the MEG pipeline).
- Capability to operate the multiphase pipelines in LP and HP modes.
- Space at the SGP to add extra process units in order to increase capacity.

OWNERSHIP AND LOCATION

Ownership interests in the Greater Laggan Area are as follows:

Company	Equity Interest
TotalEnergies E&P UK Limited	40.00%
INEOS E&P (UK) Limited	20.00%
RockRose UKCS15 Limited	20.00%
Kistos PLC	20.00%
Total	100.0000%

Greater Laggan Area Location



SERVICES WE PROVIDE

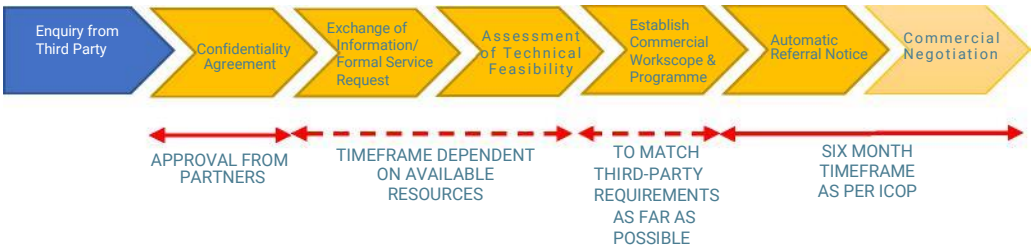
We offer the following services to third-party tie-ins:

- Make available capacity to Tie-in parties.
- Accept gas and condensate that comply with delivery specifications.
- Process gas and condensate to required criteria.
- Meter / measure / allocate gas and condensate to specified standards.
- Deliver dry gas into the SIRGE system.
- Operate / monitor fields on behalf of Tie-in parties.
- Provide technical input as required.
- Provide other 'routine' service.
- Provide other 'non-routine' services on a cost-plus basis.
- Deliver condensate to SVT.

Any approach would be treated on a case-by-case basis when determining the appropriate commercial terms, taking into account issues such as the required level of capital expenditure, product specification, capacity requirements, etc.

DESCRIPTION

TotalEnergies and the Greater Laggan Area owners are committed to the **Commercial Code of Practice** and the **Oil and Gas UK Infrastructure Code of Practice**. We aim to respond in a timely manner to all service enquiries. The typical process for negotiations is as follows:



The process typically starts with a formal written enquiry from the Operator (or substitute commercial operator) of the field development group requiring access to the infrastructure. This contains relevant field information and an outline of requirements in accordance with the process described in the **Code of Practice on Access to Upstream Oil and Gas Infrastructure on the UK Continental Shelf**.

TECHNICAL SPECIFICATIONS

The Greater Laggan Area fields are located approximately 125km North West of the Shetland Islands at its furthest and in 600m of water at its deepest.

Field infrastructure consists of four subsea templates, one for each field, and associated subsea structures that are controlled via an umbilical to the Shetland Gas Plant, (SGP), located on Shetland.

Two main 18" flowlines transport gas condensate from the fields to the SGP, where the produced gas is treated and prepared for export into the SIRGE export line and onwards into the FUKA/St Fergus system. Condensate is separated and delivered from SGP to the Sullom Voe Terminal for processing and export.

Tie in locations to the system are present at the subsea templates, at various points on the 18" import flowlines, and at the SGP itself.

The SGP has facilities for liquids separation, power generation and gas compression.

In order for the SGP to process third party fluids, an acceptable specification would have to be developed following a detailed analysis of fluid composition in relation to processing capabilities.

Inlet hydrocarbon quality ranges will be considered on a case by case basis, in order that SGP's processing capabilities can be assessed with regard to redelivery of gas and liquids.

KEY COMMERCIAL TERMS

The Greater Laggan Area facilities operate in a highly competitive area in the West of Shetland. We seek to provide both attractive terms and conditions and an equitable negotiation process to parties interested in utilising our infrastructure.

Third Parties will be required to execute a Standard System Tie-In Agreement and an Individual Commercial Agreement.

ULLAGE PROFILES

The ullage profile for the Greater Laggan Area infrastructure for each contract year is as follows:

	Capacity	2021	2022	2023	2024	2025	2026	2027	2028
Shetland Gas Plant	500mmscf/d (HP). Circa 350mmscf/d (LP 2022+)	●	●	●	●	●	●	●	●
Power generation		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

* Future modifications may increase capacity/ullage.

The traffic light system is used to communicate ullage as follows:

Ullage as % of system capacity	
< 5%	●
5% to 25%	●
>25%	●

COMPLETED TRANSACTIONS

None.

CURRENT MAJOR PROJECT ACTIVITIES

NTR.

CONTACT US

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