A Global Leader

40+ vessels

175 ROVs

14,000 people

2,000 engineers

www.subsea7.com
Where we operate

We believe in strong local, integrated teams, leveraging our global know-how and resources.
What we build in Caithness?

- Multiple flowlines packaged inside a carrier pipe
- Terminates with towhead structures (manifolds)
- Fabricated on-shore in a single length
- Towed to Field by CDTM
Established in 1978, Subsea 7’s Pipeline Bundle Fabrication Site is located near Wick, Caithness in the far North of Scotland. This unique site runs 7.8km inland, covers a total area in excess of 300,000m² and has a sheltered bay in which to launch the Pipeline Bundles. This area services Nuclear, O & G plus emerging Renewable Energy sources.

Geographically situated to service West of Shetland fields, North and Norwegian Seas

Site length – 7,800 metres
Site area – over 300,000m²
Longest pipeline bundle length – 7.7km
Heaviest structure/manifold assembly - approx. 550 te
Where we were – 1978
Wester Fabrication Facility - 2014
McKelvie Bridge
BP Andrew Field
Towhead fabrication
Weight Control

- All components accurately weighed using calibrated equipment. Carrier weighed by supplier.
- Ensures accurate weight control to approximately 0.5%.
- Pipe information downloaded.
- Final chain trimming completed pre-launch.
Pipe Incoming
Production Firing Lines
Real Time Radiography
Production Firing Lines
Carrier Fabrication and Sheathing

- 27m lengths welded into 500-1000m trains
- All production operations on line
- Trains sheathed to final location
- Final field joint tie-ins
Towhead Delivery
Towhead Delivery
Towhead Delivery
Towhead Beach Landing
BG FPSO Towhead Delivery
Launch Preparations

- Launch-way installation
- Chain attachment and trimming
- Onshore Hydro test and SIT works
- Monitoring and acoustic system checks
- Full pre-launch checks performed by discipline engineers
Bundle Installation Fleet

Non specialist vessels
Reduced cost
Reduced weather cost risk
Launch

• Structures greater than 500Te
• Tidal currents monitored and tug locations altered accordingly
• Tug bollard pull up to 776Te
• Capstan winch providing holdback tension up to 70Te
• A99 road bridge opens to allow large structures to pass through
Towed Production Systems - CDTM

A data highway runs the length of the bundle and allows acoustic commands made at one end of the bundle to be implemented at the other, for example for valve actuation or acoustic spool metrology.

Towmaster’s real-time display of bundle shape and water depth
Installation – final positioning
Wester Site and the Community

- HSE
- Quality
- Commitment to Improve
- Personnel – local workforce
- Community involvement
- Sports and Social

Charity Support

Beach Cleans

Offshore Support

Apprentice Scheme