Electrically Heat-Traced Flowline: Demonstrated Performance in Service

Continuous evolution of lower-carbon oil and gas
After years of technology development with our partner ITP Interpipe, our Electrically Heat-Traced Flowline (EHTF®) has reached the following milestone:

Demonstrated Performance in Service
Providing leading insulation performance and enabling cost-effective long-distance tie-backs.
Innovative, technically-advanced, enabling products are how we make the continuous evolution of lower-carbon oil and gas projects possible.

Enable/increase production
Development of remote reservoirs: green or brownfields

Simplify/optimise infrastructure
Lower CAPEX and OPEX

Greenhouse gas saving
Ærfugl: 5 Million tonnes CO$_2$ compared with MEG injection

Thermal insulation
0.5 W/m$^2$/K track record

Installation
Reel-lay

Maturity
On-field
Electrically Heat-Traced Flowline is the ultimate tool in flow assurance management. Provides active heating, enabling the production with single line tiebacks and mitigates wax and hydrate formation.

**Trace heating wires**
Helically wound around the pipe

**Fibre optic cable**
Continuous temperature monitoring

**Inner “flowline” pipe**
Carbon steel or corrosion resistant
Centraliser
Centralising and load bearing

Best-in-class thermal insulation
Minimised heat losses permits downsizing the topside power source

Outer “carrier” pipe
The Aker BP Ærfugl development is a major subsea project tied into the existing productions vessel (FPSO) on the Skarv field, offshore Norway. Predictable delivery of a system with excellent thermal specifications was key for project success.

Confirmed thermal performance

| ÆRFUGL Phase 1          | 0.38 W/m²K |
| ÆRFUGL Phase 2          | 0.54 W/m²K |
Delivered on specification for three key functions:

- Thermal performance
- Trace heating wires performance in active mode
- Temperature monitoring performance

The test protocol exhibited live production and shutdown, during which active heating was successfully switched on.
Reaching Technology Readiness Level 6 (API 17Q standard) is a significant achievement. Our teams are at the forefront of innovation and change to tackle the next challenges within lower-carbon oil and gas.
Engage with our EHTF® experts at:
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