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Electrically Heat-Traced Flowline: Demonstrated Performance in Service

Continuous evolution of lower-carbon oil and gas

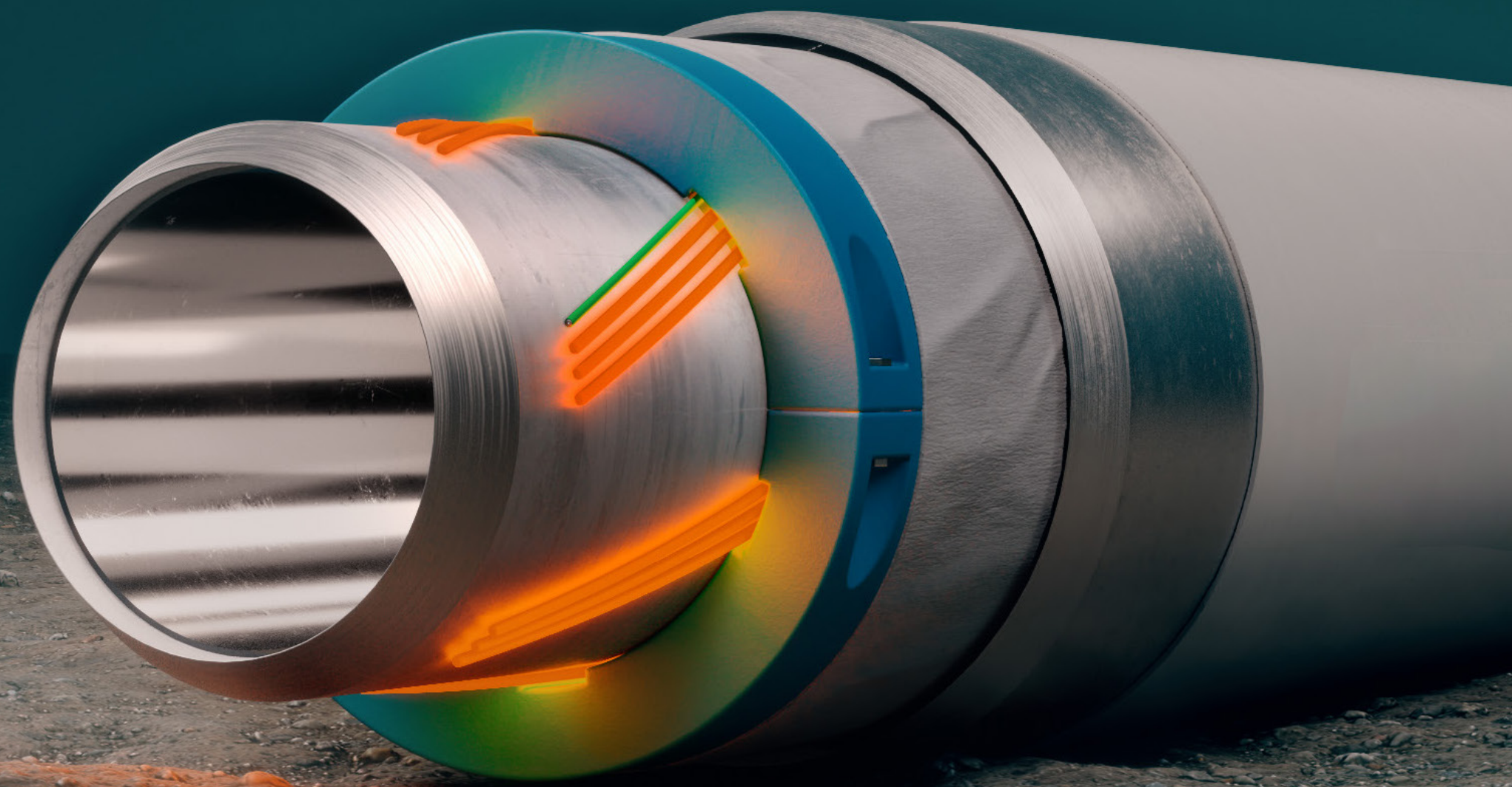


**MAKE
POSSIBLE**



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.

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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/optimize infrastructure

Lower CAPEX and OPEX



Greenhouse gas saving

Aerfugl: 5 Million tonnes CO₂ compared with MEG injection

Thermal insulation
Installation
Maturity

0.5 W/m²/K track record
Reel-lay
On-field

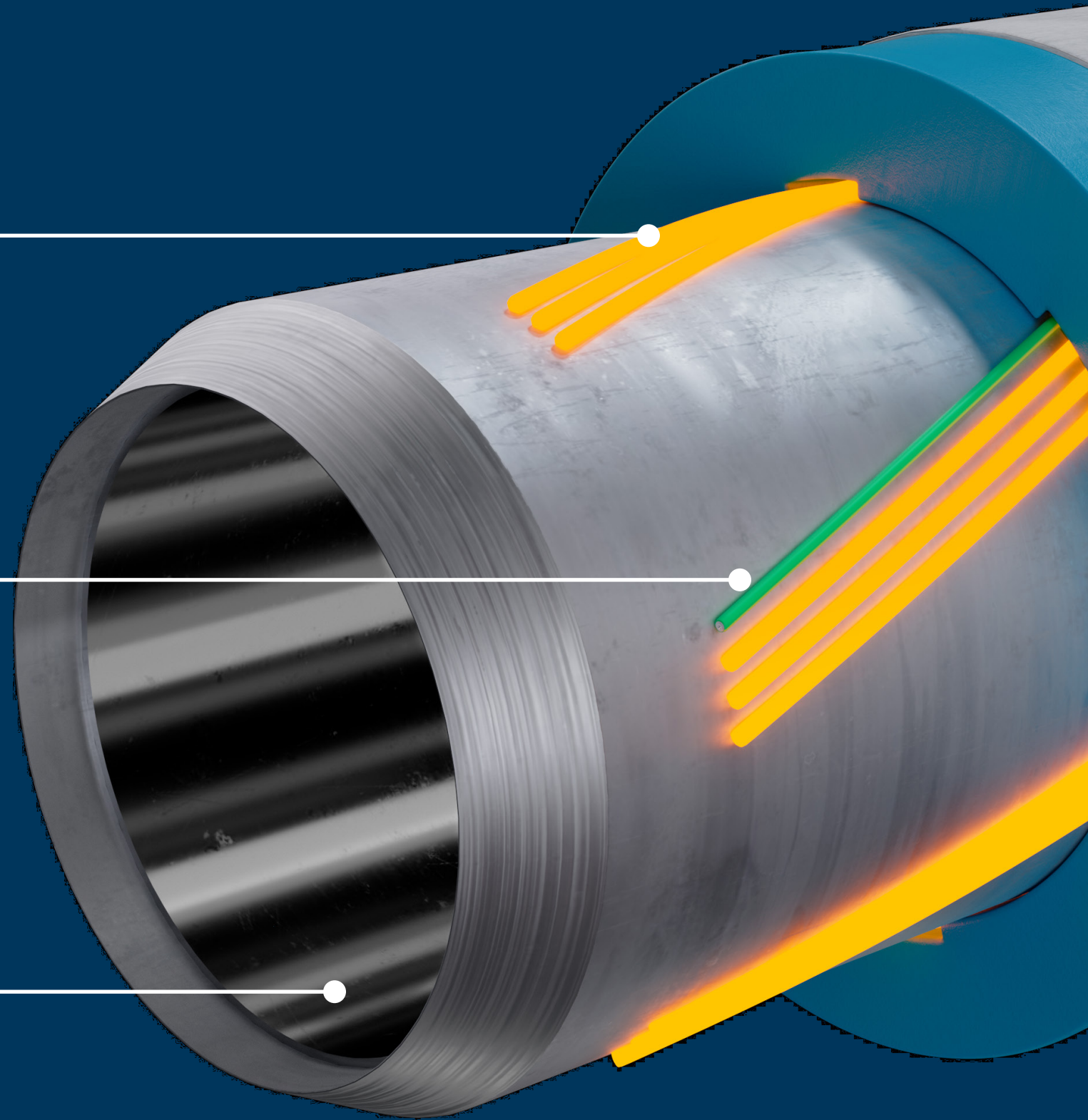


Electrically Heat-Traced Flowline is the ultimate tool in flow assurance management. Provides active heating, enabling the production with single line tiebacks and mitigates wax and hydrate formation.

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



Outer "carrier" pipe

Best-in-class thermal insulation

Minimised heat losses permits downsizing the topside power source



The Aker BP Ærfugl development is a major subsea project tied into the existing production 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.



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Engage with our EHTF[®] experts at:
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