Electrically Heat-Traced Flowline: Field-proven

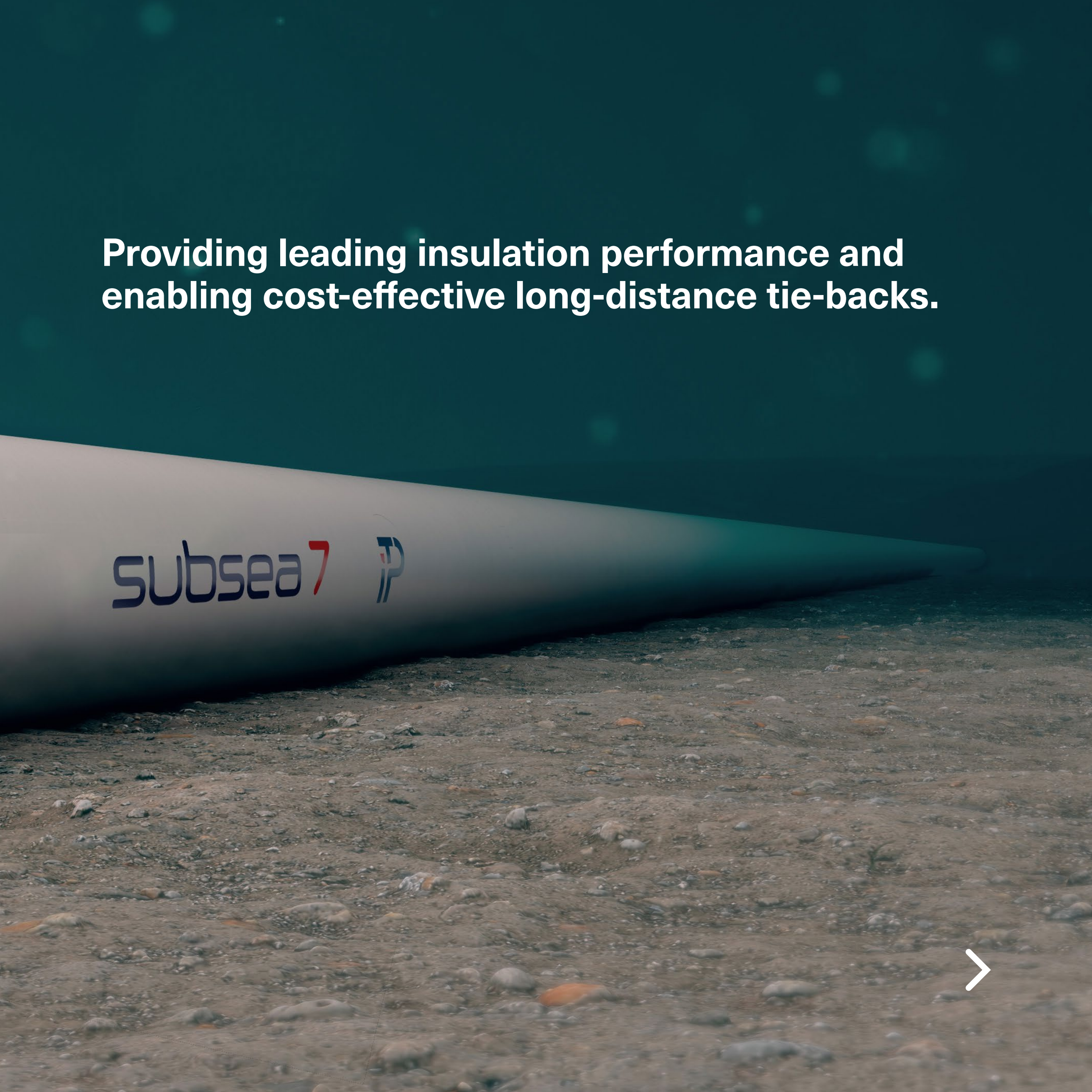
Continuous evolution of lower-carbon oil and gas

MAKE POSSIBLE

After years of technology development with our partner ITP Interpipe, our Electrically Heat-Traced Flowline (EHTF®) has reached the following milestone:

Demonstrated operational reliability

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.

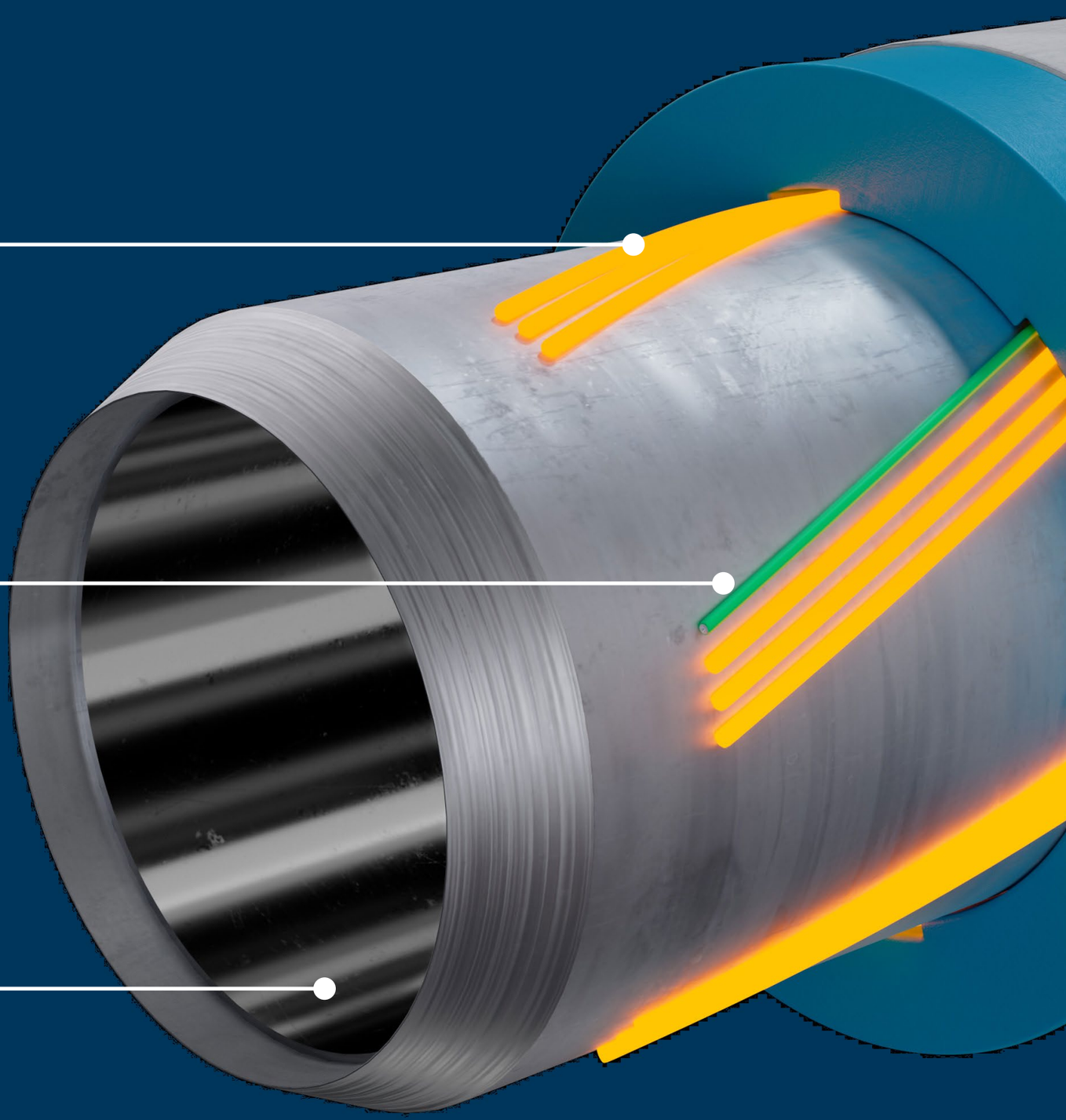
Enable/increase production
Development of remote reservoirs: green or brown fields

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/m²/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 production with single line tiebacks and mitigating 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

Centralizer
Centralising and load bearing

Outer ‘carrier’ pipe

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

The Aker BP Ærfugl development is a major subsea project tied into the existing floating production, storage and offtake vessel (FPSO) on the Skarv field, offshore Norway.

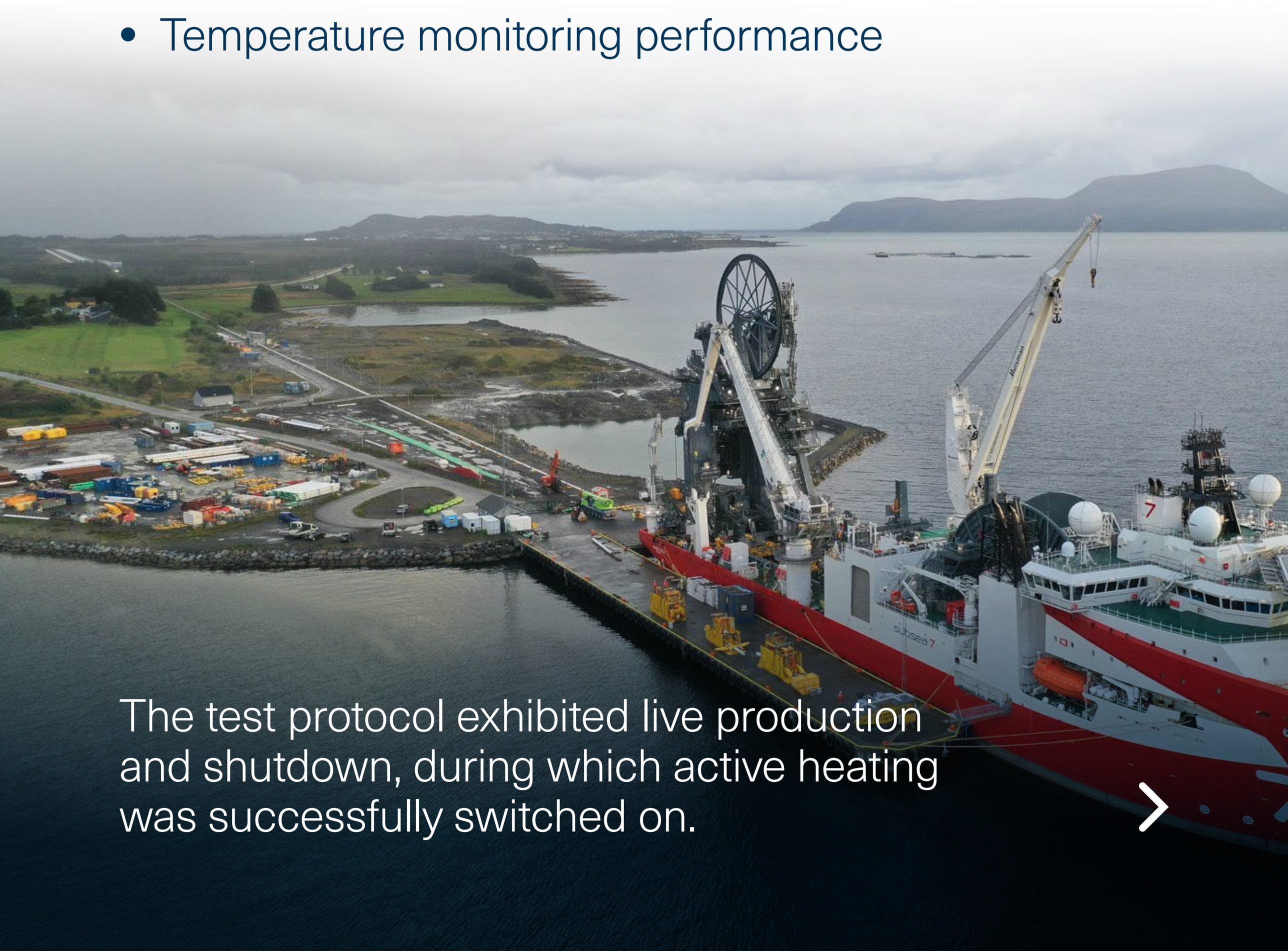
Predictable delivery of a system with excellent thermal specifications was key for project success.

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 7 (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.

subsea 7

Engage with our EHTF® experts at:

client.enquiry@subsea7.com

MAKE
POSSIBLE