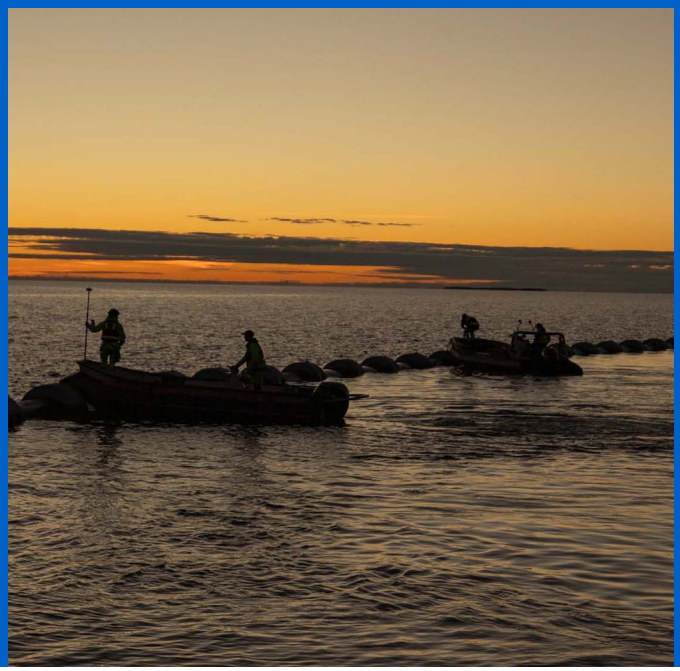
References

# Pipelines for Future-Proof Process Water Management



**Uponor involvement**

Total pipeline: 12 350 m Pressure pipes
Intake pipeline: 300 m Pressure pipes PN10 DN1000
Distribution pipeline: 9200 m Pressure pipes PN10 DN800-900
Outfall pipeline: 2850 m Pressure pipes PN10 DN900
Special constructions: Diffusors for controlled water outtake. Intake screens. Poly-pigging systems for efficient cleaning and maintenance of the pipeline network

Full performance responisibility for the entire system.

- Hydraulic design
- Type drawings
- Product drawings
- Project drawings
- Field welding
- Ballasting
- Submerging
- Project management

## Powering the Future of Process Water

To relocate treated process water discharge 10 kilometres from the mill, GF Infrawise designed a robust offshore pipeline solution built for reliable operation and lasting performance.
When Nordic Paper in Bäckhammar, Sweden needed to relocate its discharge point for treated process water approximately 10 kilometres from the mill and around 3 kilometres offshore into the receiving water body, stringent requirements were placed on technology, performance, and operational reliability.

**Project Facts:**

| Location | Completion |
| --- | --- |
| Bäckhammar, Sweden | 2027 |
| **Building Type** | **Product systems** |
| Industrial | Tailor made constructions, Industrial pipes |
| **Project Type** | |
| Renovation | |

**Partners**

T3 Group AB
Svensk Sjöentreprenad

## Powering the Future of Process Water

When Nordic Paper in Bäckhammar, Sweden needed to relocate its discharge point for treated process water approximately 10 kilometres from the mill and around 3 kilometres offshore into the receiving water body, stringent requirements were placed on technology, performance, and operational reliability.

Through GF Infrawise specialist expertise in hydraulic design, submerged pipelines, and complex infrastructure, a tailor-made solution was developed that combines long service life, reliable operation, and proven functionality.

From Design to Functional Responsibility

GF Infrawise assumed full responsibility for its scope of supply within the project, from advanced hydraulic design and dimensioning to delivery and performance responsibility for the complete submerged pipeline system.

Challenges Addressed

- Relocation of the discharge point approximately 10 km from the industrial site
- Complex hydraulic conditions with demanding flow optimization requirements
- Need for a long-term solution with minimal maintenance requirements
- Safe installation and operation under challeging conditions

Delivered Solution

The completed solution comprises a total of 12 kilometres of pressure pipelines and several specially adapted components to ensure safe and efficient operation.

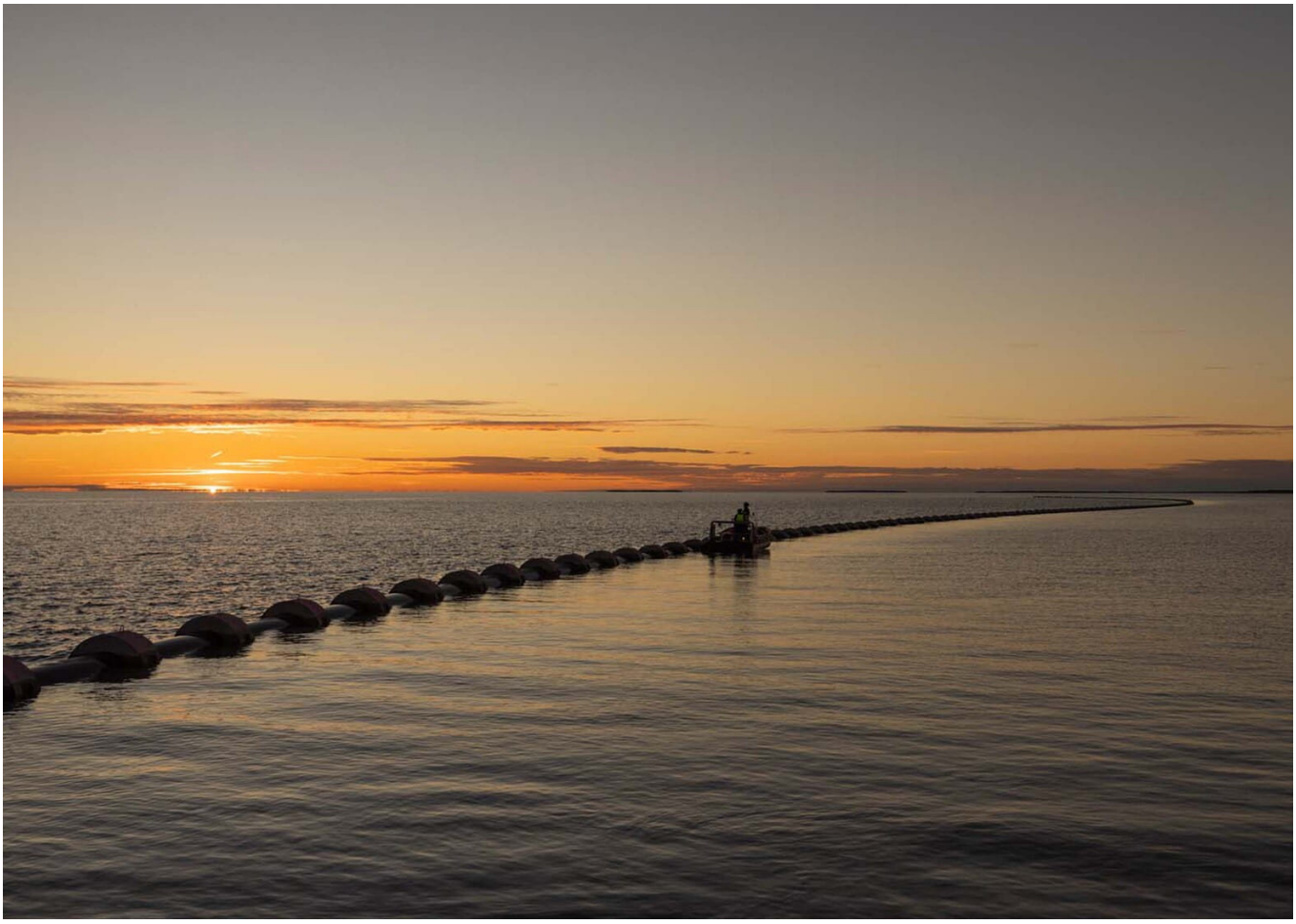
By combining robust PE piping systems with advanced hydraulic expertise, GF Infrawise delivered a solution designed to meet future requirements.

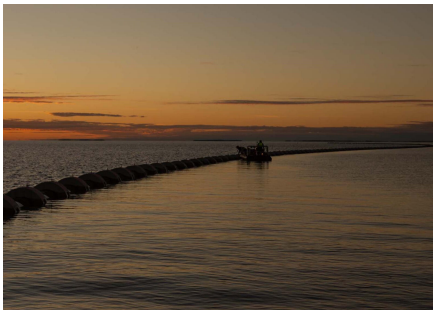
Customer Benefits at a Glance

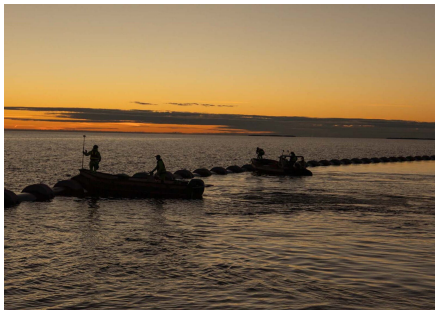
- Robust and reliable water management
- Long service life and low maintenance costs
- High operational reliability and dependable performance
- Optimized hydraulic efficiency

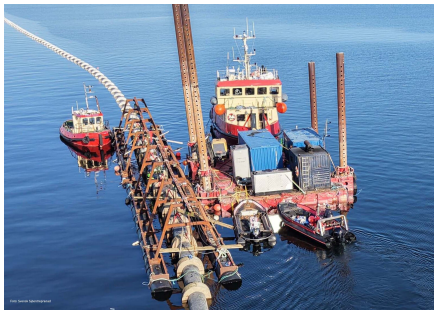
The result is a complete and highly reliable, submerged pipeline system that provides Nordic Paper with a long-term solution, enabling the company to operate with confidence and maintain full control well into the future.

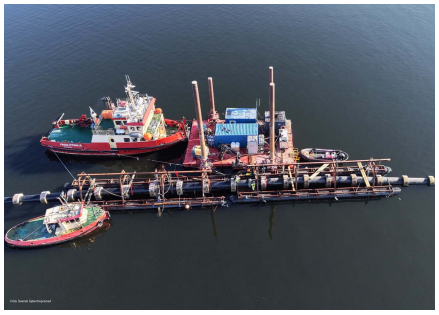
## Image Gallery Nordic Paper











> This project demonstrates the value of combining advanced hydraulic design with proven materials and full end-to-end responsibility throughout the entire process. The result is a reliable solution that meets both current and future demands," says Petri Tähtinen, Sales Representative, GF Infrawise.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