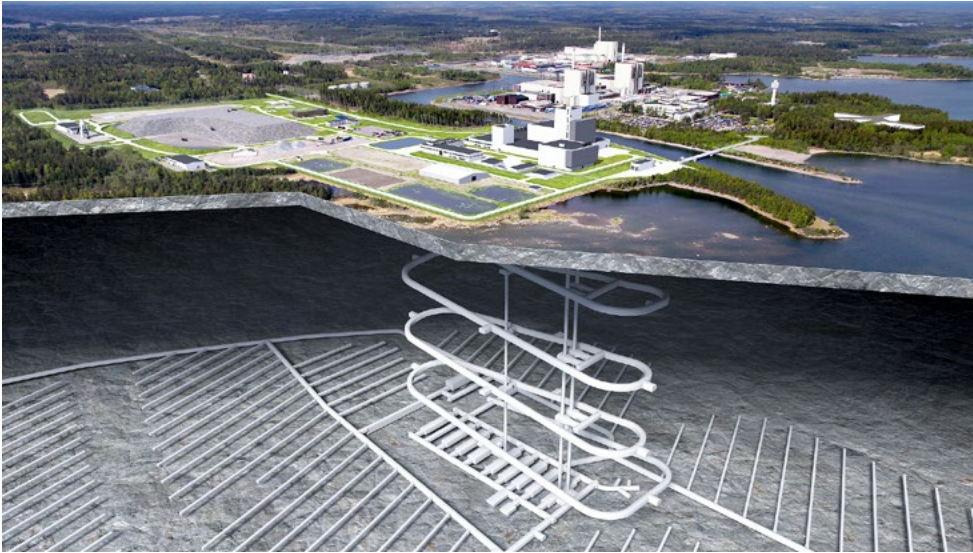


SKB | Söderviken, Sweden

SKB (Svensk Kärnbränslehantering AB) needed a compact desalination solution for a demanding coastal drilling operation. Enwa provided a fully containerised system engineered for efficiency and tough conditions.



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About SKB

SKB is responsible for managing radioactive waste from Sweden's nuclear power plants. With a strong commitment to safety, environmental protection and technological excellence, SKB enables long-term, fossil-free electricity production. As part of their continued development work, SKB required a reliable water supply for a major drilling operation at their coastal site.

Our Delivery

Enwa delivered a fully containerised desalination plant designed to produce process water and general utility water from brackish seawater. The system can provide a capacity of 10 liters per second, supporting the continuous and demanding needs of the drilling project.

Scope of Supply

Our delivery included a complete, modular desalination solution:

- Pump station for seawater intake
- Sand filtration (containerised)
- Reverse Osmosis system (40 ft container)
- Remineralisation and distribution unit (40 ft container)
- CIP unit (20 ft container)

Each container was engineered, built, and pre-assembled to simplify on-site installation.



SKB | Söderviken, Sweden

The Challenge: Space Constraints & Harsh Installation Environment

One of the project's key challenges was placing the pump station directly at the seawater shoreline, an environment demanding robust installation techniques and reliable anchoring.

A second challenge was optimising internal space usage: all components, including tanks and process equipment, had to be integrated into just three 40-foot containers without compromising access for maintenance.

Our Solution: Smart Engineering & Precise Installation

To secure the pump station at the shoreline, Enwa worked with a professional diver who bolted the intake structure to its underwater foundation. This ensured stability despite the challenging marine environment.

Inside the containers, our design team applied their expertise to create a compact yet service-friendly layout. Through intelligent positioning of tanks, pipework and RO equipment, the full desalination process could be accommodated within the available footprint, maintaining both performance and long-term maintainability.

CHALLENGES

- Placing the pumpstation next to the seawater shore
- To fit the complete installation in three 40ft containers
- Limited floor space for safe maintenance

SOLUTIONS

- Diver-assisted mounting of the pump station
- Smart container layout by Enwa's design team
- Full process integrated within the container footprint

INTERESTING PARTS OF THE DELIVERY

- Unique placement of the seawater pump station
- Full installation, including tanks, built inside shipping containers
- Compact design covering the entire desalination process