

# Koster Islands | Tjärnö, Sweden

Enwa provided a reliable and energy-efficient desalination solution to supply clean drinking water to Koster Islands, a small island community in Sweden with highly variable seasonal water demand.



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## A Unique Island Challenge

*Koster Islands, located just west of Strömstad, are renowned for their scenic landscapes and are among Sweden's westernmost inhabited islands. Comprising North Koster and South Koster, the islands attract a large number of tourists in summer, which dramatically increases water demand. During peak season, daily consumption rises to over 150 m<sup>3</sup>, while in winter it drops below 20 m<sup>3</sup>.*

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## Our Delivery

### Enwa's Innovative Solution

To meet the island's fluctuating water needs, Enwa delivered a container-based desalination solution capable of producing 100 m<sup>3</sup> of drinking water per day. The system is equipped with energy-efficient membranes, consuming only 3.2 kWh per cubic meter, and operates at pressures below 50 bar.

### Reliable Water Supply Year-Round

This compact and fully automated solution ensures a reliable supply of high-quality drinking water throughout the year, even in remote locations with limited infrastructure. By combining a robust technical design with energy efficiency, Enwa has enabled Koster Islands to maintain water security for both residents and seasonal visitors, providing a sustainable solution that adapts to seasonal demand and supports the island's tourism and community needs.

ADVANCED WATER TECHNOLOGY

