

Beverage - Beer



Energy savings



Water savings



Cost savings

CASE STUDY

Carlsberg

Project field: RO water treatment
Project Start Date: 2018



SUMMARY

RO SYSTEM

Recycling the RO reject water from the beer production line to reduce water usage

UET REACTOR

UET-APRO-9000 treatment system

MAKE-UP SOURCE

RO reject water from the production line



The UET unit treating the production water on site

BACKGROUND

While the brewery had been returning RO reject to the production line, it wanted to increase the percentage of water savings.

IMPACT

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WATER SAVINGS



The recycled RO reject water was measured and recorded before and after UET installed its system. Before UET, it averaged 375m³/day from the total use of 500m³/day. After UET, the RO reject water was recorded with an average of **465m³/day** - an 18% improvement. Before UET, the return rate to the production line was 75%. With the UET-RO system, the return rate was increased to **93%**.

RETURN ON INVESTMENT



Using this installation, the Carlsberg brewery is saving ~**USD70,000/year** (based on USD2.25/m³ of water).

The ROI for this installation is approx. **20 months**.

CHEMICAL ADDITIVES



Anti-scale inhibitor

