

# Eurowater

## Value Proposition 1165

Product: Ultrapure water systems

Industry: hydrogen

Value Proposition: Water treatment for Hydrogen electrolyzers customized to your needs

# Complete Solutions for European Countries

- Extensive process knowledge within water treatment for electrolysis technologies since 2016
- In-house process knowledge and production of standard units providing solutions from drinking water to ultrapure water.
- Standard units can be utilized
- International service organization with on-call service in more than 15 countries in Europe.

# Design Customized to Specific Conditions

- The water source and the electrolyzer technology determine the choice of water treatment being used for green hydrogen production. Depending on your location and size of project you may have different water sources available, and each will come with different requirements for your water treatment system. We can assist you with correct water treatment regardless of electrolyzer technology you use:
  - Alkaline water electrolysis (AWE)
  - Polymer electrolyte membrane electrolysis (PEM)
  - Internal polishing in connection to PEM
  - Solid Oxide Electrolyzers (SOEC)
  - Anion exchange membrane electrolysis (AEM)

# Alkaline Experience

- **Alkaline Electrolysis | 20 MW**
- HySynergy / Everfuel
- **Water source:** City water without chlorine  
**Plant capacity:** 4,500 L/h  
**Conductivity:** < 5  $\mu\text{S}/\text{cm}$   
**Commissioning:** 2022

## **System components:**

- Softening unit type SMH 602-F
- Brine tank
- Double-pass reverse osmosis type DPRO C3-6/3
- Dosing tank with mixer
- Dosing pump
- Feed water tank 2 x 5000L
- Booster pump

# PEM Experience

- **PEM Electrolysis | 50 MW**
- European Energy / Siemens Energy
- **Water source:** Groundwater  
**Plant capacity:** 10000 L/h  
**Conductivity:** < 0.1  $\mu\text{S}/\text{cm}$ .  
**Commissioning:** 2023

## **System components:**

- Antiscalant dosing
- Double-pass reverse osmosis type DPRO C3-9
- Membrane degassing unit
- Mechanical filtration unit type EF5
- EDI unit
- Polisher mixed-bed type Eurex-H-901