Press release

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Water for generating green hydrogen

EnviroChemie is working on behalf of an industrial company to establish the fundamental principles of water treatment for generating green hydrogen.

Energy and water are essential raw materials in the manufacturing industry. A production plant with a high energy consumption is therefore looking to use green hydrogen as an energy source. Between 10 and 17 kilogrammes of high-purity water are needed to produce 1 kilogramme of green hydrogen.

EnviroChemie is conducting pilot tests to establish the fundamental principles for converting surface water into high-purity water. The pilot tests are scheduled to take place over six months.

The CembrOzone technology used for water treatment is based on a combination of silicon carbide membranes and ozone. By inhibiting the formation of a stable biofilm on the membranes, the ozone helps to maintain a superior membrane performance over a longer period of time. The CembrOzone process does not require any cleaning chemicals, produces no waste and works largely automatically, making it a particularly favourable solution for remote sites.

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