

On-site peroxide generation with GOgen

GOgen - It starts with water, it ends with water



Applications

- △ Cooling towers
- △ Data center cooling loops
- △ Process water treatment
- △ Effluent water treatment
- △ Advanced oxidation

Benefits

- △ Sustainable
- △ Safe
- △ Chemical-input free
- △ Supply chain security

On-site Hydrogen Peroxide Generation for Industrial and Municipal Water & Wastewater Treatment

Multiple Water and Wastewater (WWT) processes and applications require the use of a powerful oxidant. These include control of bio-foul and bio-films in water lines, Advanced Oxidation Processes (AOP) for the breakdown of organic compounds, odor control (e.g. H₂S removal), and many others.

Hydrogen peroxide (H₂O₂) is often the WWT oxidant of choice, due to its strong oxidation potential, and its minimal environmental footprint – breaking down to water and oxygen following use, and leaving no disinfection by products (DBP) or salination behind. **But the transportation, handling and storage of high-concentration bulk hydrogen peroxide is often prone to high costs, dedicated infrastructure investments, logistical challenges, and ongoing safety concerns.**



GOgen™ – Green Oxidant generator - by HPNow autonomously generates safe, sustainable, ultra-high purity H₂O₂ directly on site. **GOgen™** inputs are only water and electricity. Output Peroxide UltraPure™ solution is generated at a safe concentration of up to 1% and temporarily stored in a buffer tank, from which it is dosed into the treated water. The buffer tank is automatically refilled based on actual demand. HPNow further provides a remote GOgen system monitoring service to ensure a smooth and fully controllable operation without the need for on-site presence.

GOgen | Key Features and Benefits

- ⦿ No infrastructure or recurring chemical costs
- ⦿ Low running costs – highly energy efficient
- ⦿ Requires only water and electricity inputs
- ⦿ Safe to use, no handling of toxic chemicals
- ⦿ Sustainable, no Disinfection By Products (DBPs)
- ⦿ Autonomous operation – no supply chain dependence
- ⦿ Remote monitoring – facilitates distributed operation
- ⦿ Highly scalable – addresses demanding WWT applications