

## On-site peroxide generation with GOgen

GOgen - It starts with water, it ends with water



### Applications

- △ Cooling towers
- △ Data servers
- △ Process water



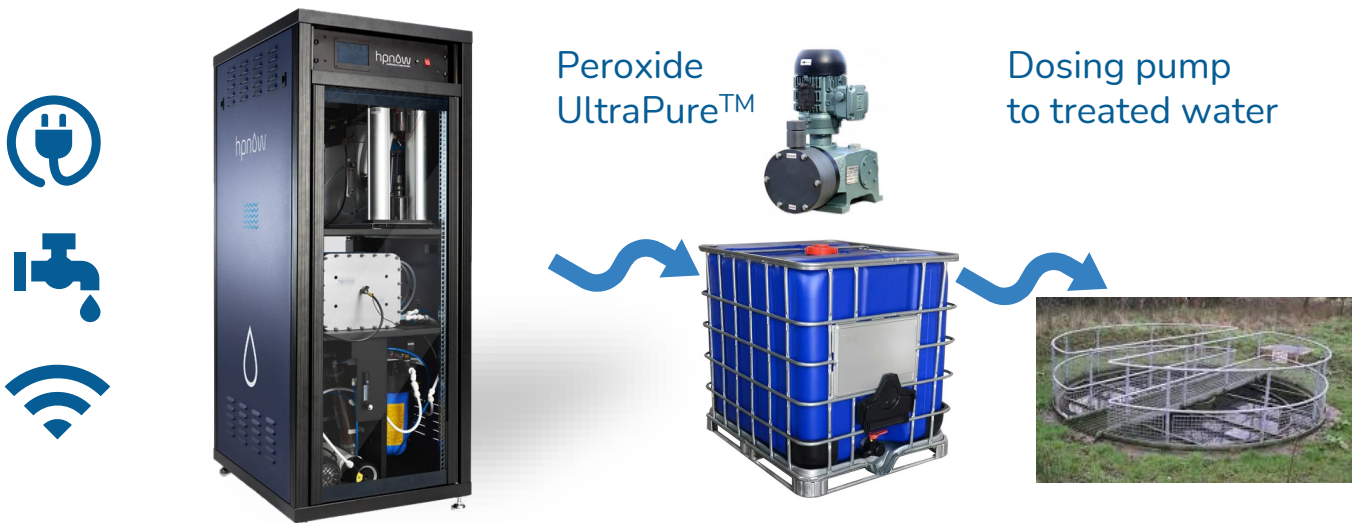
### Benefits

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

# Odor Control with GOgen

Hydrogen Sulfide ( $H_2S$ ) may be formed in municipal and industrial wastewater by the biological reduction of sulfates and the decomposition of organic material. It can also naturally occur in groundwater and well water as a result of chemical reactions and decay. This colorless gas has long been recognized as a major problem for municipal and industrial water and wastewater (WWT) systems. Beyond its unpleasant odor, the gas is toxic, and is subsequently converted to sulfuric acid which attacks concrete and steel structures.

Hydrogen peroxide ( $H_2O_2$ ) readily oxidizes  $H_2S$ , whereby it decomposes into dissolved oxygen, helping maintain an aerobic environment and preventing the formation of sulfide. **But the transportation, handling and storage of high-concentration bulk hydrogen peroxide, particularly in distributed WWT facilities, is often prone to high costs, dedicated infrastructure investments, logistical challenges, and ongoing safety concerns.**



GOgen by HPNow<sup>®</sup> eliminates  $H_2O_2$  challenges, costs, and concerns by autonomously generating safe, pure, low-concentration  $H_2O_2$  directly on site. GOgen inputs are only water and electricity. Output Peroxide UltraPure<sup>™</sup> solution is generated at safe concentration of up to 1% and temporarily stored in a buffer tank, from which it is dosed into the treated water at ppm-level in-line concentrations. 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
- ⦿ Eco-friendly, no Disinfection By-Products (DBPs)
- ⦿ Low running costs – highly energy efficient
- ⦿ Autonomous operation – no supply chain dependence
- ⦿ Requires only water and electricity inputs
- ⦿ Easy to operate and maintain
- ⦿ Safe to use, no handling of toxic chemicals
- ⦿ No stabilizers or other additives.