# Peroxide UltraPure™
# Onsite Generation

Odor control for **cooling towers**, **data centers** and **process water**.
Stop $H_2S$ in its tracks with ultra-purity peroxide, generated by GOgen®

Autonomous  Safe  Sustainable

# 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.**

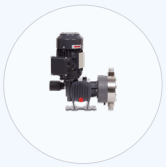
**Inputs**

GOgen®

It starts with water, It ends with water

**Output and Line Feed**

Peroxide UltraPure™ Reservoir



Dosing Pump

Treated Water

GOgen® by HPNow 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™ 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 onsite presence.

- 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
- Eco-friendly, no Disinfection By-Products (DBPs)
- Autonomous operation – no supply chain dependence
- Easy to operate and maintain
- No stabilizers or other additives

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