

## On-site peroxide generation with GOgen

GOgen - It starts with water, it ends with water



### Applications

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



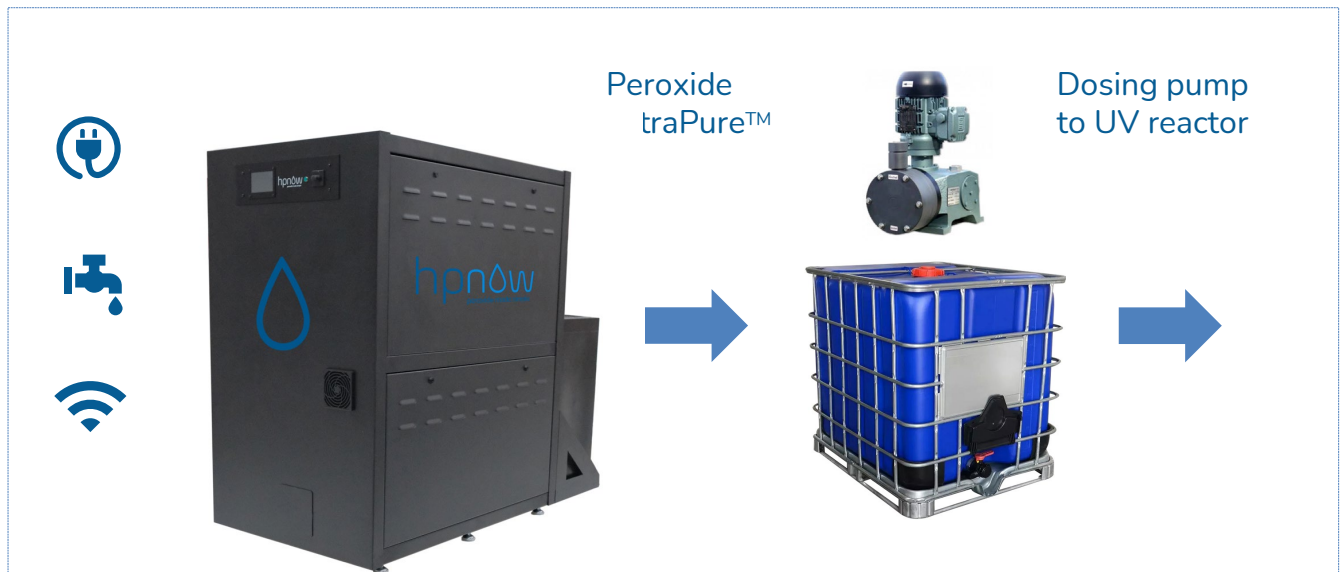
### Benefits

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

# Chemical-Input Free AOP

Water safety is increasingly threatened by trace organic contaminants originating from pharmaceutical, cosmetics, oil and gas, and chemical industries. These Trace Organic Compounds (TrOC) are becoming the subject of rising public concern and tightening regulations.

The activation of hydrogen peroxide by UV creates highly potent hydroxyl radicals which break down these resilient organic compounds. This process is termed Advanced Oxidation Process (AOP). GOgen enables for the first time fully-autonomous, safe, chemical-input free AOP, by producing UltraPure™ hydrogen peroxide directly at the point of use. GOgen for AOP reduces chemical consumable costs, improves occupational safety, and reduces chemical storage, handling, and permitting costs, as well as dependence on 3<sup>rd</sup> party chemical supply chains.



GOgen by HPNow eliminates bulk H<sub>2</sub>O<sub>2</sub> challenges, concerns, and related costs, by autonomously generating safe, ultra-high purity, low-concentration H<sub>2</sub>O<sub>2</sub> 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 UV chamber. 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 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.