



Onsite Hydrogen Peroxide Generation



Autonomous



Safe



Sustainable

Glorinda, in cooperation with HPNow, a leader in on-site hydrogen peroxide technology, offers safe and sustainable solutions for clean water and sanitation. These systems produce hydrogen peroxide directly at the site, working automatically to support global water needs.

Our on-site hydrogen peroxide systems help customers achieve high returns by:

- **Fully autonomous system**
- **No chemical inputs**
- **Safe and sustainable operation**

We also focus on reducing the carbon footprint and overall impact of water treatment on the environment.

Inputs



GOgen[®]

It starts with water, It ends with water

Output and Line Feed



Peroxide UltraPure[™]
Reservoir



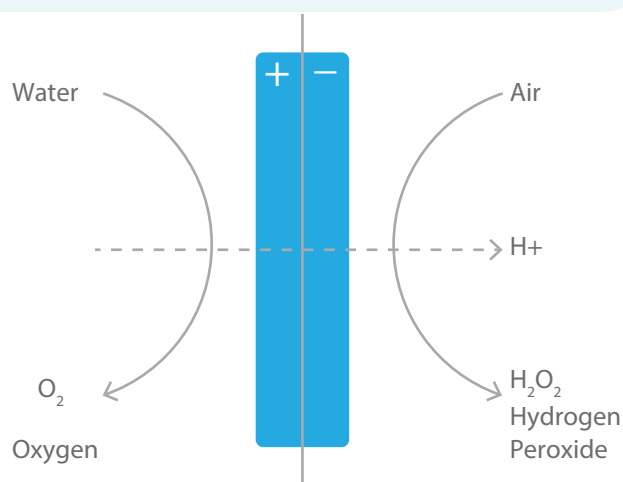
Dosing Pump

Direct Electrochemical Production of Hydrogen Peroxide

Our technology produces high-purity hydrogen peroxide directly from water, air, and electricity. It is safe, efficient, and designed for decentralized use.

Using advanced oxygen reduction and a unique air-water system, the solution is generated without the need for gaseous hydrogen or water vapor. The membrane-based electrolyte design removes the need for handling liquid chemicals.

The system is modular and scalable, with cells that can be stacked to meet different capacity needs.



Key applications of GOgen® are summarized in the table below:

Industrial	Cooling Water Treatment	<ul style="list-style-type: none"> • Prevents biofilm buildup in closed-loop systems • Replaces corrosive chlorine, reduces corrosivity, and improves cooling efficiency while extending system lifespan • Reduces water and energy consumption
	Industrial Effluent Treatment	<ul style="list-style-type: none"> • Replaces bulk hydrogen peroxide with safe onsite generation • Eliminates transport, storage, and safety risks • High-efficiency oxidation with zero chemical residues
	Process Water Treatment	<ul style="list-style-type: none"> • Chlorine-free, sustainable alternative • No corrosion, salinity, or toxic byproducts • Enhances discharge compliance
	Advanced Oxidation Process (AOP)	<ul style="list-style-type: none"> • Removes trace organic contaminants (pharma, cosmetics, etc.) • UV-activated hydrogen peroxide for powerful purification • Chemical-free, safe, and regulation-friendly
	Odor Control (H₂S Management)	<ul style="list-style-type: none"> • Neutralizes hydrogen sulfide in wastewater • Prevents infrastructure corrosion and health hazards • Eco-friendly alternative to traditional oxidants

Municipal	Drinking Water	<ul style="list-style-type: none"> • Targets tough pollutants (pharmaceuticals, pesticides) • Eco-friendly hydrogen peroxide generation onsite • Leaves no harmful residues
	Advanced Oxidation Process (AOP)	<ul style="list-style-type: none"> • Removes Trace Organic Compounds (TrOCs) • Chemical-free, cost-saving AOP solution • Improves safety and regulatory compliance
	Odor Control	<ul style="list-style-type: none"> • Neutralizes odors without harmful chemicals • Sustainable, safe, and cost-effective • Continuous, automated treatment
	Effluent Treatment	<ul style="list-style-type: none"> • Replaces chemical-based methods • Reduces pollution, enhances safety • Low-maintenance, logistics-free solution

Agriculture	Irrigation Systems	<ul style="list-style-type: none"> • Prevents clogging & ensures even water distribution • Boosts oxygen levels naturally for healthier crops • EU/US organic certified – no harmful residues • Extends irrigation system lifespan
	Post-Harvest Processing	<ul style="list-style-type: none"> • Treats and recycles wash water sustainably • No residue, salination, or heavy metals • Protects produce and equipment • Fully automated
	Livestock Drinking Water	<ul style="list-style-type: none"> • No taste, odor, or harmful by-products • Oxygen-rich water improves animal health and hydration

Food & Beverage	Process Water & Holding Tanks	<ul style="list-style-type: none"> • Ensures clean, high-quality water onsite • Eliminates waterborne hazards without harmful residues • Reduces carbon footprint vs. traditional treatments • Boosts safety and protects products
	Packaging Water Treatment	<ul style="list-style-type: none"> • Preserves taste & quality • Non-toxic solution meets strict safety standards • No impact on beverage quality

Data Center	Cooling Water Treatment	<ul style="list-style-type: none"> • Prevents biofilm buildup • Ensures efficient cooling and lower energy use • No discharge limitations • No salinity or pH changes, ensuring consistent water quality
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Electronics	Wet Cleaning Process	<ul style="list-style-type: none"> • Generate ultra-high purity hydrogen peroxide onsite • Renewable energy compatible – zero-emission oxidation
	Oxidation	<ul style="list-style-type: none"> • Simple, safe onsite hydrogen peroxide generation • Chemical-free oxidation powered by renewable energy • Eliminate logistics and environmental impact from chemical handling