Purifics

Cuf® Sustainable Water Purification

Driving Positive Evironmental Outcomes in Water Purification.

Cuf removes multiple contaminants in a single, high-efficiency unit, reducing energy use, chemical demand, and greenhouse gas emissions, delivering a cleaner, more sustainable water purification process.

- CapEx Reduction **80%**
- Footprint Reduction **75%**
- Chemical Reduction **80%**
- Energy Reduction **50%**
- OpEx Reduction **50%**

Cuf Sustainability Advantages

Advantage	How Cuf Achieves It	Impact
Chemical Reduction	In-Situ Concentrated Sweep Floc (CSF) reduces coagulant demand and eliminates polymers, pre-treatment basins, and jar testing.	Reduced carbon footprint from chemical manufacturing, transport and storage.
Energy Reduction	Low TMP operation, continuous self-cleaning, and constant flux control minimize pumping and cleaning energy requirements.	Reduced operational GHG emissions.
Footprint Reduction	Replaces clarifiers, filters, floc tanks, backwash systems, and chemical handling infrastructure with a single compact platform.	Less concrete, steel, and construction material → reduced carbon footprint and green space used.
No End-of-life Membrane	100% SiC ceramic membranes with 25+ year design life maintain performance without lifecycle element disposal.	Eliminates membrane manufacturing waste and landfill impact.
ZLD Capability	Solids are recovered with no filtrate loss.	No wastewater discharge, lower transport emissions.
Supports Water Reuse	Produces disinfected, consistent water quality suitable for recycle/reuse applications.	Reduces demand on potable water supply and system energy intensity.

Cuf reduces operational and lifecycle greenhouse gas emissions by lowering energy demand, minimizing chemical usage, reducing infrastructure footprint, and eliminating membrane replacement and waste discharge.

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