



GREEN TECHNOLOGY GLOBAL
ESG SOLUTIONS

EXECUTIVE SUMMARY

Atmospheric Water Generators

Fresh water produced on site, from the air

THE OPPORTUNITY

Water supply is becoming a gating constraint for data centers, agriculture, industry and growing communities. Municipal systems are aging, groundwater is stressed or contaminated, and new utility connections can take years. Green Technology Global (GTG) removes that dependency by generating clean, fresh water directly at the point of use from atmospheric humidity, a continuously renewing source estimated at roughly 12 quadrillion liters at any given time.

THE TECHNOLOGY

GTG Atmospheric Water Generators (AWGs) draw in ambient air, condense its humidity through a closed refrigeration cycle, and purify the result. Every unit in the line shares the same proven platform: an enclosed-vortex compressor with external-balance thermal expansion valve control, and a 7-stage treatment train: HEPA air intake and pre-filtration, refrigerated condensation, sediment filtration, carbon block filtration, mineralization, UV sterilization, and a final polish stage. The output meets or exceeds WHO drinking water standards, is chemical-free, and starts cleaner than groundwater because it begins as vapor. Units are connect-to-power and run continuously, with a single annual filter kit for maintenance.

INDUSTRIAL PRODUCT LINE

Model	Output / day	Power (460V 3Ø)	Weight	Best fit
500L	132 gal / 500 L	6.3 kW	1,786 lb	Small facilities, remote sites, farms
1,000L	264 gal / 1,000 L	12.3 kW	2,359 lb	Campuses, commercial buildings
2,000L	528 gal / 2,000 L	24.6 kW	4,475 lb	Agriculture, light industrial
5,000L	1,320 gal / 5,000 L	64 kW	8,598 lb	Industrial process, livestock operations
10,000L	2,641 gal / 10,000 L	128 kW	18,078 lb	Data centers, large campuses
Substation	100,000+ gal	Engineered	Array	Dozens to hundreds of 10,000L units in one array

Ratings at 86°F / 80% RH. Output varies with temperature and humidity; GTG provides site-specific production estimates.

KEY BENEFITS

- **Water independence.** 100% independent of municipal supply, wells and surface water, with no pipelines, permits for new draws, or exposure to utility curtailment.
- **Clean, safe, great-tasting water.** 7-stage purification plus mineralization, validated by an independent water-purity testing report.
- **Scales from one unit to a utility.** Modular units from 132 to 2,641 gallons per day combine into clustered substations producing hundreds of thousands of gallons daily.
- **Faster time-to-water.** Deploys on the project's schedule rather than the utility's, helping keep data center and development timelines on track.
- **Lower environmental footprint.** No groundwater depletion, no chemical treatment, and a direct replacement for trucked or bottled water and plastic waste.
- **Off-grid ready.** Pairs with GTG's FLUX primary power systems for complete water-and-power independence at remote or constrained sites.

TARGET APPLICATIONS

Data center cooling and campus water • Agriculture, livestock and controlled-environment growing • Industrial and commercial facilities • Residential developments and off-grid communities • Emergency response and remote operations

WHY GTG

GTG is in the solutions business, not the box-selling business. Each engagement moves from project intake to feasibility screen, technical review and a commercial next step, supported by a feasibility study and independent purity data before purchase, and by GTG engineering and project management after installation.

Next step: Share site location, daily water demand, available power and target date for a sizing estimate.