

FLUX HOME × GREEN TECHNOLOGY GLOBAL

INTEGRATED OFF-GRID UTILITIES · NEW RESIDENTIAL CONSTRUCTION

POWER AND WATER, WITHOUT THE GRID OR THE WELL

Flux Home natural-gas fuel cell power, paired with a GTG Atmospheric Water Generator — a self-contained utility platform sited on the lot, independent of electric grid interconnection and municipal or well water.

THE CHALLENGE

New Construction Faces Two Infrastructure Bottlenecks

Getting a new home to a certificate of occupancy often depends on two utilities the builder doesn't control.



ELECTRIC GRID INTERCONNECTION

Interconnection queues

Utility studies and transformer / service upgrades can push a new-service date months past groundbreaking.

Capital cost exposure

Distance from the nearest line or substation can shift line-extension costs onto the builder or homeowner.

Capacity limits

Growing subdivisions strain local transformers, especially where electrification is adding new residential load.



WATER ACCESS & PERMITTING

Well uncertainty

Yield, depth, and water quality aren't guaranteed until a well is drilled — a sunk cost if it comes up short.

Rights & permitting

Water rights, setbacks, and health-department approval can add months to a build timeline.

Main extension cost

Running a municipal tap to a remote or edge-of-service lot is often the single largest site-utility line item.

THE SOLUTION

One Utility Room. Two Self-Contained Systems.

Both systems are sited at the home and manufactured off-site — neither depends on new distribution pipe, a new electric service, or a drilled well.



FLUX HOME — ELECTRICITY FROM NATURAL GAS

A solid oxide fuel cell converts on-site natural gas into clean electricity and thermal energy — installed in about a day, without waiting on a utility interconnection.



GTG AWG — DRINKING WATER FROM AIR

An atmospheric water generator condenses ambient humidity through 7-stage filtration into water that meets or exceeds WHO purity standards — renewable daily, independent of groundwater.

POWER PLATFORM

Flux Home: Power Without the Pipe

Grid-independent solid oxide fuel cell (SOFC) — indoor or outdoor rated

~1

DAY INSTALL

<45

DBA AT 10 FT

~36 kW

DAILY PRODUCTION

5 kWh

BATTERY STORAGE

Specification	Value
Technology	Solid Oxide Fuel Cell (SOFC)
Fuel source	Natural gas
Fuel consumption	~0.35 m³/hr
Operation	Prime power, utility/remote monitored
Nominal voltage	120 VAC
Current	Up to 40 A
Footprint (W × D × H)	2' × 2' × 5'
Weight	~600 lbs
Location	Indoor / outdoor rated



Output varies with site conditions & gas quality. Certified UL 1741, UL 9540B, EN 50465; Wi-Fi telemetry.

GTG Atmospheric Water Generator: Water Without the Well

Draws moisture from ambient air and delivers it through 7-stage filtration — water that meets or exceeds WHO purity standards, fully independent of groundwater or municipal supply.

Specification	GTG 250L (66 gal/day)	GTG 500L (132 gal/day)
Supply power	US 208V 3-phase / 60Hz	US 460V 3-phase / 60Hz
Power rating	3.4 kW, 9.57 A	6.3 kW, 15.45 A
Max daily water production*	69 gal / 262 L	132 gal / 500 L
Max day power usage*	69.6 kWh	129.6 kWh
Operating range	59°F–113°F, 30–100% RH	59°F–113°F, 30–100% RH
Control system	SPC	PLC
Refrigerant	R410a	R407c
Dimensions (L×W×H)	73.2" × 37.4" × 65.4"	76.2" × 45.3" × 46.1"
Net weight	800 lbs	1,786 lbs



250L UNIT



500L UNIT



7-stage filtration: HEPA air filter → sediment → pre-carbon → ultra-fine membrane → post-carbon → UV → mineralization.

*Rated at 86°F (30°C) & 80% relative humidity. Annual filter kit: HEPA air filter, PPF, CTO, UDF, UF, UV, mineralization.

Choosing Your AWG Size

Right-size the water platform to the home's fixture count and household size, then confirm against local climate using the performance data on the next page.

GTG 250L

69 gal / day · 1–4 bedroom single-family homes

- ✓ Household of up to ~5–6 occupants at typical fixture-count usage
- ✓ Single-family lots where footprint (73"×37") and 800 lb weight fit a standard mechanical pad
- ✓ Drinking, cooking, and general potable use

GTG 500L

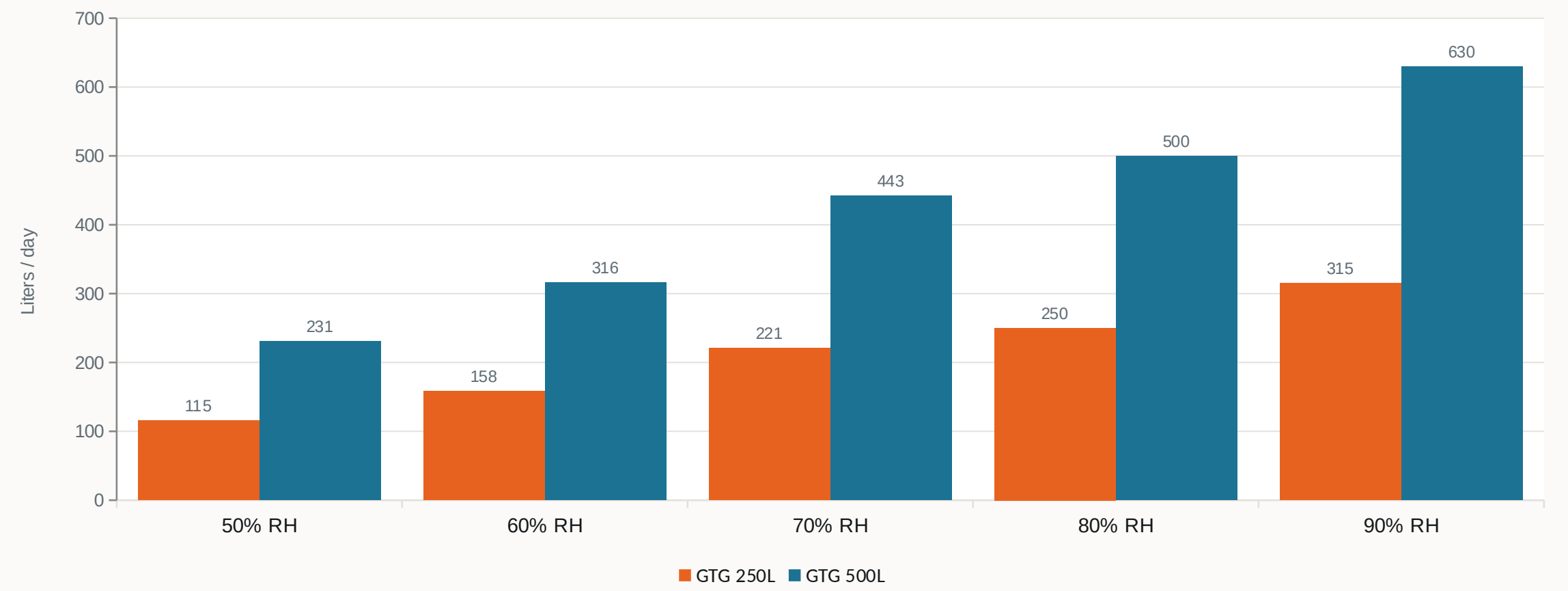
132 gal / day · Larger homes, ADUs, or higher-demand sites

- ✓ Larger households, multi-generational or multi-unit residential
- ✓ Sites layering in irrigation, landscaping, or controlled-environment agriculture
- ✓ Where mechanical space allows the larger 76"×45" / 1,786 lb footprint

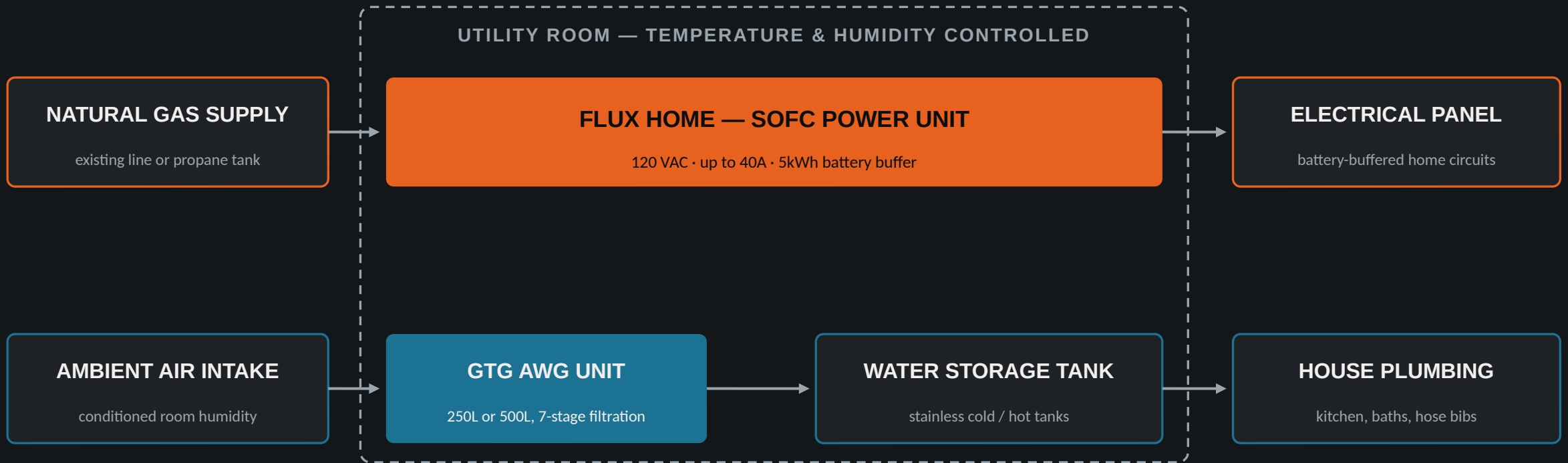
PERFORMANCE DATA

Daily Water Output Scales With Humidity

Liters produced per day at 30°C (86°F) ambient — the units' rated temperature point — across a range of relative humidity. Sited indoors in a temperature- and humidity-controlled utility room, the unit runs consistently near this curve regardless of outdoor climate.



How It Sits on the Lot



Both systems sit in a single conditioned utility room — climate control keeps the AWG near its 30°C / 80% RH rated output year-round, independent of outdoor weather.

SYSTEM PLANNING

Plan the Combined Power Budget

The AWG draws 3-phase power at higher voltage than a single Flux Home unit's 120 VAC output — size the number of Flux Home units (or a compatible inverter/panel configuration) to the site's total connected load during design.

Load	Draw	Notes
Flux Home output (per unit)	120 VAC, up to 40A (~4.8 kW)	prime power, 5 kWh battery buffer
GTG 250L AWG	3.4 kW, 208V 3-phase (69.6 kWh/day max)	plus balance of home load
GTG 500L AWG	6.3 kW, 460V 3-phase (129.6 kWh/day max)	plus balance of home load

Certifications & Compliance

UL 1741

Inverter safety for grid support

UL 9540B

Battery safety compliance

EN 50465

Electrical compatibility standard

Wi-Fi telemetry

Remote utility monitoring & controls



Climate-controlled siting

Sited indoors in a temperature- and humidity-controlled utility room alongside Flux Home, so output holds near the rated 80% RH / 30°C point through every season.



Water quality standard

Output meets or exceeds World Health Organization purity standards through 7-stage filtration, plus delay, pressure, and overheat/overload protection as standard.

What the Builder and Homeowner Avoid



No electric interconnection queue

Skip the utility study, transformer upgrade, and new-service wait that can stall a build schedule.



No well-drilling gamble

No uncertain yield, no water-rights process, no sunk cost if a drilled well underperforms.



Faster path to occupancy

Flux Home installs in about a day; the AWG ships as a factory-built, sited unit.



Water supply renews daily

Atmospheric generation isn't tied to aquifer levels, drought, or a municipal outage.



Fits edge-of-service & remote lots

Both systems work equally well on infill lots and sites far from existing mains.



Remote-monitored, low-maintenance

Wi-Fi telemetry on both platforms supports remote diagnostics and utility-style oversight.

A System That Fits Your Schedule and Your Product Line

Neither system is gated by a utility's timeline or a driller's outcome — schedule and spec them like any other trade.



Off the critical path

No interconnection study, no well outcome to wait on — site-utility work proceeds on your schedule, not a third party's.



Consistent across lot types

The same two components — Flux Home and a 250L or 500L AWG — size predictably across starter, move-up, and estate plans, simplifying bid packages on multi-lot developments.



A sellable differentiator

Utility-independent power and water is a tangible selling point on remote, edge-of-service, or infrastructure-constrained lots where buyers would otherwise face real uncertainty.



Visibility after handoff

Wi-Fi telemetry on both platforms gives you and the homeowner system status post-closing, without a truck roll to check on it.

Specify by Plan Type

A starting point for bid packages across a subdivision's product line — confirm each plan against fixture count, occupancy, and the power-budget guidance on the System Planning page.

Plan Type	Typical Occupancy	Recommended AWG	Flux Home Config
Starter (1-3 bed)	Up to ~4 occupants	GTG 250L	1 unit
Move-up (3-4 bed)	~4-6 occupants	GTG 250L	1 unit
Estate / large plan (5+ bed, ADU)	6+ occupants	GTG 500L	1-2 units, per combined load



Use this as a bid-package starting point, not a final spec

Verify each plan's AWG size against its actual fixture count and expected occupancy, and confirm the combined electrical load — Flux Home output plus AWG draw plus balance of home — against the System Planning guidance before finalizing a lot's utility package.

LET'S SCOPE YOUR SITE

Power and water, built into the lot.

Coordinate with your Flux Home and Green Technology Global representatives to size a Flux Home + GTG AWG system for this site's climate, household demand, and mechanical footprint.

GREEN TECHNOLOGY GLOBAL

Round Lake, IL 60073 · 224-425-9236 · www.GreenTechnologyGlobal.com

FLUX HOME

Contact your Flux Home representative for siting, interconnection, and utility-control details.