

FLUX HOME & FLUX EMBER

Natural Gas Fuel Cell Power | Executive Overview

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EXECUTIVE SUMMARY

Flux fuel cells turn the natural gas already piped to a site into clean, quiet, always-on electricity. Two products cover the market: **Flux Home**, a compact appliance that powers a home or small commercial site, and **Flux Ember**, a containerized system for large buildings and disaster response.

The grid is under strain from extreme weather, electrification and data-center load. Flux gives property owners, utilities and emergency planners power that does not depend on the electric grid, a fuel delivery truck or the weather.

PRODUCT OVERVIEW

	Flux Home	Flux Ember
Role	Primary or backup power for one home or small site	Industrial and mobile power for large sites and emergencies
Form factor	Compact appliance, 2 ft W × 2 ft D × 5 ft H; wall- or garage-mounted	Packaged in a single 20 ft shipping container
Fuel	Utility natural gas	Natural gas or on-site fuel storage
Integration	Ties into the home circuit breaker panel with hybrid inverter and battery storage	Trailer- or pad-mounted; pairs with GTG atmospheric water generators
Deployment	Installed in a utility room or garage	Delivered on a flatbed to the impact site

A 3 kW variant, **Flux Comm**, serves telecom towers and remote communications sites.



Flux sits between the gas line and the breaker panel, so the whole building runs whether or not the grid is up. Waste heat can also feed the hot water heater.

TARGET MARKETS

Channel	Segment	Problem Flux solves
Flux Home	Homeowners, builders, developers	Outages, grid-connection delays and off-grid lots; pairs with GTG AWGs for water
Flux Home	Gas utilities	Adds load to the gas network while relieving the electric grid; subscriber program
Flux Home	Gas stations & convenience stores	Pumps take about 30 minutes to reboot for card payments; refrigerated stock spoils
Flux Home / Comm	Telecom towers	Remote sites need continuous, low-maintenance power
Flux Home	First Nation & tribal communities	Energy sovereignty off-grid, or relief for strained local grids
Flux Ember	High-rise buildings	Elevators, pumps, life safety and tenants stay powered
Flux Ember	Emergency response	Power and clean water delivered to disaster sites within days

COMPETITIVE ADVANTAGES

Flux wins on fuel access: natural gas is already piped to tens of millions of buildings, and buried gas lines rarely fail when storms take down power lines.

Factor	Flux fuel cell	Diesel / standby generator	Solar + battery	Hydrogen fuel cell
Fuel supply	Existing gas line, no deliveries	Tank refills; trucks may not reach site in a disaster	Sun only; battery drains in multi-day outages	Scarce, costly hydrogen deliveries
Run time	Continuous	Limited by tank size	Hours to a day on battery	Limited by stored hydrogen
Duty	Primary or backup power	Backup only	Weather-dependent	Mostly backup
Emissions & noise	Electrochemical, no combustion; quiet	Exhaust, soot, loud	Clean, silent	Clean, quiet
Footprint	4 sq ft appliance	Outdoor pad, setbacks	Roof or ground array plus battery	Unit plus hydrogen storage
Heat recovery	Waste heat can feed hot water	None	None	Limited

Key advantages

- **Always-on, not just backup.** Flux can serve as a site's primary power source, turning a cost center into an energy asset.
- **Resilient fuel.** No fuel trucks, no dependence on sun or wind, and no hydrogen supply chain.
- **Grid relief.** Each unit removes load from the electric grid, aligning Flux with utility non-pipes and load-management goals.
- **Fast deployment.** Flux Home installs like an appliance; Flux Ember ships in one 20 ft container on a flatbed.
- **Integrated power and water.** Paired with GTG atmospheric water generators, one trailer delivers both electricity and drinking water.
- **Revenue for gas utilities.** The subscriber program grows gas throughput while offering customers a premium resilience product.

PROGRAMS & NEXT STEPS

Flux is offered through targeted programs, each with its own presentation: Gas Utility Subscriber, First Nation Access, High-Rise Building, Gas Station & Convenience Store, Telecom (Flux Comm), and Mobile Emergency Water & Power Response.

- ☐ Identify one pilot site per channel
- ☐ Open talks with a gas utility partner on the subscriber program
- ☐ Confirm published specs before external release

Open questions: rated kW output and electrical efficiency for Flux Home and Flux Ember, installed cost, warranty terms, and certifications (UL, CSA) to be added from the spec sheets.