

X FLUX HOME

POWER THE TOWER. INDEPENDENT OF THE GRID.

Primary power with battery backup for critical high-rise building systems — running on natural gas, independent of the electrical grid.

Fuel cell technology · No combustion · Battery-backed · Off-grid ready

ONE OUTAGE. FOUR SYSTEMS AT RISK.

High-rise buildings depend on continuous power to keep occupants safe and moving



ELEVATORS STOP

When grid power drops, elevators can strand occupants between floors and cut off egress for upper-level residents and tenants.



LIFE SAFETY OFFLINE

Fire pumps, smoke control, and stairwell pressurization depend on continuous power to protect occupants and meet code.



WATER STOPS FLOWING

Domestic water booster pumps lose pressure to upper floors, while sump pumps stop — risking flooding in mechanical spaces.



ACCESS & COMFORT LOST

Security systems, access control, lighting, and HVAC go down, disrupting tenants and building operations.

AUTOMATED SYSTEMS NEED POWER TOO

Modern high-rises run on automated systems that all depend on continuous power



PHYSICAL SECURITY

Cameras, access control readers, and intrusion detection all need continuous power to keep watching and controlling every entry point.



ACCESS CONTROL & ENTRY

Electronic locks and card readers fail-safe or fail-secure when power drops — risking locked-out residents or unsecured doors.



BUILDING AUTOMATION

Centralized HVAC, lighting and elevator control systems stop responding without continuous power to the building management system.

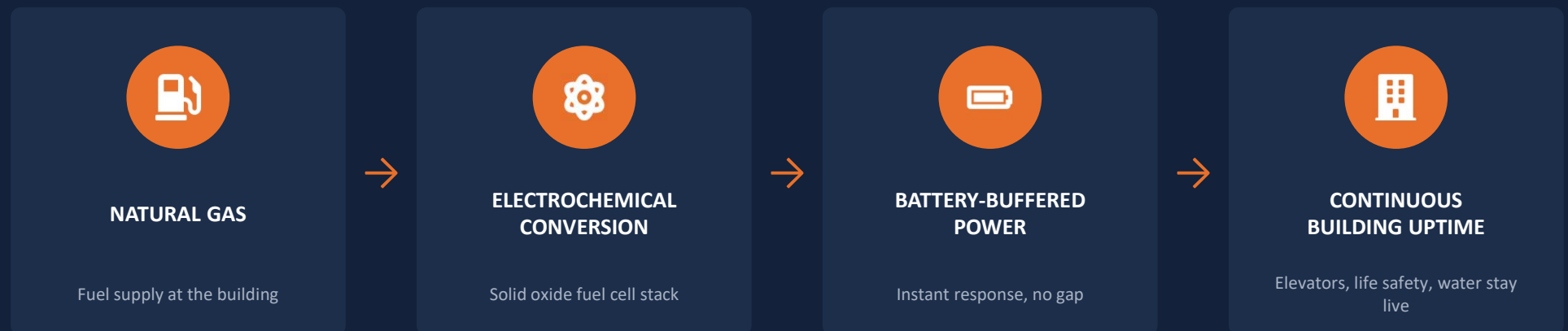


COMMUNICATIONS & ALARMS

Intercoms, fire alarm monitoring and emergency communication systems depend on the same continuous power.

THE FLUX HOME SOLUTION

Flux Home is a solid oxide fuel cell that runs continuously on natural gas to generate primary electricity, paired with battery storage for instantaneous, seamless power — independent of the electrical grid.



BEYOND STANDBY POWER

Diesel generators and battery-only UPS wait for the grid to fail. Flux Home is already running.

	DIESEL GENERATOR / UPS	FLUX HOME
Role	Emergency-only backup	Primary power, battery-backed
Response to outage	10-60 second transfer delay	Seamless — battery buffers instantly
Runtime	Limited by onsite fuel or battery	Continuous, sized to the building
Noise	70–85 dBA typical	< 45 dBA at 10 ft
Maintenance	Frequent testing, oil changes	Minimal moving parts
Emissions	Combustion exhaust	No combustion, no flame

SIZED FOR HIGH-RISE CRITICAL LOADS

Right-sized for the building — from a single riser to whole-building critical load

FLUX HOME

Single riser or small building critical loads

3 kW

CONTINUOUS OUTPUT

<45 dBA

AT 10 FT

2'×2'×5'

FOOTPRINT (W×D×H)

~600 lbs

WEIGHT

Ideal for elevator machine rooms, single-riser life-safety loads, or a dedicated mechanical closet.

FLUX EMBER

Whole-building or multi-tower critical load

27 kVA

PEAK OUTPUT

288 kWh

ENERGY AVAILABLE/DAY

12.6 kW-th

USEFUL HEAT RECOVERED

29.2 days

RUNTIME, 1,000 GAL TANK

Packages generation, battery storage, and thermal recovery in one transportable unit for rooftop or grade-level mechanical yards.

BUILT FOR THE BUILDING SITE

Compact and quiet enough for a mechanical room, rooftop, or loading dock

<45

dBa at 10 ft

~1

day installation

2'×2'×5'

footprint (W×D×H)

~0.35

m³/hr fuel use

120 VAC

NOMINAL VOLTAGE

Up to 40 A

CURRENT

~600 lbs

WEIGHT

Indoor / Outdoor

LOCATION RATING

Deployed in a mechanical room, rooftop mechanical yard, or loading dock — no new gas service required where natural gas is already on site. Output and fuel consumption vary with site conditions, gas quality and system configuration.

RELIABLE, VISIBLE, IN CONTROL

A dispatchable, standards-compliant asset built for critical building infrastructure



Remote telemetry

Wi-Fi-based monitoring keeps building operators and facilities teams connected to every unit.



Real-time diagnostics

Continuous performance monitoring flags issues before they cause downtime to critical systems.



Dispatchable operation

Operators retain visibility and control of every deployed unit across the property.



Open, interoperable control

Built to integrate with open standards such as UDMI (Universal Device Management Interface), keeping the building vendor-neutral.

CERTIFICATIONS & COMPLIANCE



UL 1741

Inverter safety for grid support



UL 9540B

Battery safety compliance



EN 50465

Electrical compatibility standard

WHERE IT FITS

Four deployment profiles across high-rise and multi-story properties



MULTIFAMILY HIGH-RISES

Protect elevators, life-safety systems and water pressure for residents on every floor.



COMMERCIAL OFFICE TOWERS

Keep tenants working and building systems running through grid disruptions.



MIXED-USE DEVELOPMENTS

Serve retail, residential and office loads from a single dispatchable power platform.



HEALTHCARE & SENIOR LIVING

Meet life-safety power needs where uninterrupted power is most critical.



NEVER LOSE POWER TO THE BUILDING THAT NEVER STOPS.

Let's scope a Flux Home deployment for your property — contact the Flux team to discuss siting, fuel access, and integration with building life-safety systems.