

FLUX HOME

GAS DEMAND IS DECLINING. YOUR INFRASTRUCTURE DOESN'T HAVE TO.

A non-pipes alternative for infrastructure growth — utility-controlled distributed generation

Install Flux Home to operate at the Point-of-Use fully Off-Grid. Remove dependence on the electrical utility while maintaining a simple connection back to the grid.



THE PRESSURE ON GAS UTILITIES

Falling throughput is squeezing returns on rate-base assets.

INFRASTRUCTURE ECONOMICS ARE CHANGING

Declining gas demand is reducing throughput across existing distribution networks.

INVESTMENTS MUST DELIVER RETURNS

Utilities keep investing in infrastructure while facing rising pressure to maximize returns on existing rate-base assets.

TRADITIONAL GROWTH IS CAPITAL INTENSIVE

Conventional load growth demands significant capital and lengthy infrastructure deployment.

FLUX HOME™ GROWS LOAD WITHOUT NEW PIPE.

A NON-PIPES ALTERNATIVE

FLUX HOME™ is a utility-controlled solid oxide fuel cell that converts natural gas into clean electricity and useful thermal energy — increasing throughput and creating new load on assets already in the ground.

<45

dBa AT 10 FT

~1

DAY INSTALLATION

2'×2'×5'

FOOTPRINT W×D×H

~0.35

m³/HR FUEL USE

One compact indoor/outdoor-rated unit — sited at the grid edge, dispatched by the utility, deployed without new distribution pipe.

THE FLUX OPPORTUNITY

Four ways Flux Home™ extends the value of existing infrastructure

01

CREATE NEW REVENUE- PRODUCING LOAD

Generate new load from existing gas infrastructure to strengthen throughput and support revenue recovery.

02

INCREASE LOCALIZED THROUGHPUT

Drive additional throughput without major capital investment or new distribution pipe.

03

SUPPORT FUTURE ENERGY STRATEGIES

Deploy utility-controlled distributed generation that enhances reliability and supports evolving energy pathways.

04

KEEP CONTROL AT THE UTILITY

Dispatchable, remotely monitored assets that stay under utility visibility and management at the grid edge.

DELIVERING VALUE

Offsetting grid power to unlock C&I growth



INCREASE INFRASTRUCTURE RETURNS **More throughput from assets you already own**

Generate additional throughput and improve utilization of existing gas distribution assets — without new pipe.



IMPROVE REVENUE RECOVERY **New, reliable, utility-controlled load**

Create new load that strengthens delivered volumes and supports long-term financial performance.



OPTIMIZE GRID CAPACITY **Offset residential electric demand**

Reduce demand at the grid edge to preserve electric capacity for high-value C&I customers.



ENHANCE ENERGY RESILIENCE **Distributed generation at the premise**

Support electrification goals and local reliability without major distribution upgrades or capital outlay.

TECHNICAL SPECIFICATIONS

Grid-edge solid oxide fuel cell — indoor or outdoor rated

SPECIFICATION	VALUE	SPECIFICATION	VALUE
Technology	Solid Oxide Fuel Cell (SOFC)	Installation	~1 day
Fuel source	Natural gas	Footprint (W×D×H)	2' × 2' × 5'
Fuel consumption	~0.35 m³/hr	Weight	~600 lbs
Nominal voltage	120 VAC	Noise level	< 45 dBA at 10 ft
Current	Up to 40 A	Location	Indoor / outdoor rated

Output and consumption vary with site conditions, gas quality and system configuration.

UTILITY CONTROL & COMPLIANCE

A dispatchable, standards-compliant asset the utility owns and operates

PLATFORM CAPABILITIES

- **Utility telemetry integration** — Seamless integration with utility systems and platforms.
- **Remote monitoring capability** — Real-time performance monitoring and diagnostics.
- **Dispatchable operation** — Utility-controlled to support grid needs and demand response.
- **Grid-edge deployment** — Distributed generation at the local network level.
- **Utility-controlled asset management** — Maintain control and visibility of distributed assets.

CERTIFICATIONS & COMPLIANCE

- **UL 1741** — Inverter safety for grid support
- **UL 9540B** — Battery safety compliance
- **EN 50465** — Electrical compatibility standard
- **Remote telemetry (Wi-Fi)** — Utility monitoring and controls

Built for today's natural gas infrastructure. Ready for tomorrow's energy network.

MORE THROUGHPUT. NEW LOAD.

NO NEW PIPE.

Let's scope a Flux Home™ deployment on your network — contact the Flux team to discuss siting, interconnection and utility control.

INSTALLATION & SITING

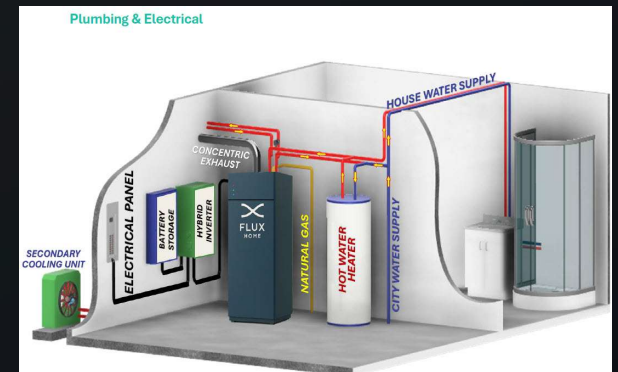
Flexible placement — garage, side-mount, or utility room



01 GARAGE INSTALL



02 EXTERIOR SIDE-MOUNT



03 PLUMBING & ELECTRICAL

PRODUCT BROCHURE

Full-page reference — leave-behind collateral



GAS DEMAND IS DECLINING

Your Infrastructure Doesn't Have To



A Non-Pipes Alternative for Infrastructure Growth

As gas demand declines, utilities face growing pressure to maximize infrastructure returns. Flux Home™ is a utility-controlled solution that increases gas throughput and creates new load without expanding the distribution network.

01 MARKET OPPORTUNITY

Extending the Value of Existing Infrastructure

Utilities are facing increasing pressure to maximize infrastructure returns while adapting to changing energy demand. Flux Home™ provides a practical pathway to increase throughput, create new load, and improve asset utilization—without expanding the distribution network.



THE CHALLENGE

- Infrastructure Economics Are Changing**
Declining gas demand is reducing throughput across existing distribution networks.
- Investments Must Deliver Returns**
Utilities continue investing in infrastructure while facing increasing pressure to maximize returns on existing rate-base assets.
- Traditional Growth Is Capital Intensive**
Traditional growth often requires significant capital investment and lengthy infrastructure deployment.

THE FLUX OPPORTUNITY

- Create New Revenue-Producing Load**
Generate new load from existing gas infrastructure to strengthen throughput and support revenue recovery.
- Increase Localized Throughput**
Drive additional throughput without major capital investment or new distribution pipe.
- Support Future Energy Strategies**
Deploy utility-controlled distributed generation that enhances reliability and supports evolving energy pathways.

TRADITIONAL MODEL VS. FLUX MODEL

TRADITIONAL MODEL: Gas Network → Customer → Declining Demand

FLUX MODEL: Gas Network → Flux Home Unit → Electricity

- Increased Throughput
- Improved Infrastructure Returns

DELIVERING VALUE BY OFFSETTING GRID POWER FOR C&I GROWTH

- INCREASE INFRASTRUCTURE RETURNS**
Generate additional throughput and improve utilization of existing gas distribution assets—without new pipe.
- IMPROVE REVENUE RECOVERY**
Create new, reliable load that strengthens revenue and supports long-term financial performance.
- OPTIMIZE GRID CAPACITY**
Offset residential electricity demand at the grid edge to preserve capacity for higher-value C&I customers.
- ENHANCE ENERGY RELIANCE**
Provide distributed generation at the customer site to improve reliability and system resilience.
- SCALE GROWTH WITHOUT EXPANDING INFRASTRUCTURE**
Support customer growth and distributed energy assets without their distribution network or capital outlay.

Flux Home™ helps utilities turn today's infrastructure into tomorrow's advantage.

02 INFRASTRUCTURE VALUE

TECHNICAL PLATFORM OVERVIEW

COMBINED HEAT AND POWER (CHP) SOLUTION

Flux Home™ is a utility-controlled distributed generation solution that converts natural gas into clean electricity and useful thermal energy with high efficiency and reliability.

FUEL SOURCE	NATURAL GAS
OPERATION	PRIME POWER
BATTERY STORAGE	5kWh
DAILY PRODUCTION	~36kW
THERMAL ENERGY	48kW



SYSTEM SPECIFICATIONS

Technology	Solid Oxide Fuel Cell (SOFC)
Fuel Consumption	~0.35 m³/hr
Nominal Voltage	120 VAC
Current	Up to 40A
Installation	~1 Day
Footprint (W x D x H)	2' x 2' x 5'
Weight	~600 lbs
Noise Level	< 45 dBA at 10 ft
Location	Indoor / Outdoor Rated

UTILITY INTEGRATION

- Utility Telemetry Integration
Seamless integration with utility systems and platforms.
- Remote Monitoring Capability
Real-time performance monitoring and diagnostics.
- Dispatchable Operation
Utility-controlled operation to support grid needs and demand response.
- Grid-Edge Deployment
Designed for distributed generation at the local network level.
- Utility-Controlled Asset Management
Maintain control and visibility of distributed generation assets.

CERTIFICATIONS & COMPLIANCE

- INVERTER: UL 1741, Inverter Safety, No Grid Support
- BATTERY: UL 9540B, Battery Safety, Certification
- CE: EN 50465, Electrical Compatibility, Standard
- REMOTE TELEMETRY (WIFI BASED): Utility Monitoring & Control

Built for Today's Natural Gas Infrastructure. Ready for Tomorrow's Energy Network.

03 TECHNICAL PLATFORM