



EH Power Plant

Scalable fuel cell power plants for data centers and industrial customers

Firm, clean, rapidly deployable primary power assembled from standardized 3 MW blocks, at competitive costs and without incumbent waiting lists.

Overview

EH Energy scales its containerized **3 MW EH Power Blocks** into complete, multi-megawatt power plants for data centers, microgrids and industrial sites. Each plant is built from standardized 3 MW building blocks with N+1 (or higher) redundancy, integrated controls and energy management and - where pipeline gas rather than hydrogen is available - on-site steam methane reforming with optional carbon capture.

The result is firm, clean, rapidly, reliable deployable power at competitive capex, without multi-year lead times.

EH Power Plants come in two families

EH Modular Power Plants

Turnkey plants for smaller data center and industrial needs, built from standardized 3 MW blocks.

EH Bespoke Power Plants - up to gigawatt scale

Custom-engineered plants for large data center and industrial customers, delivered with your EPC or our preferred partners.

EH Modular Power Plants

EH Modular Power Plants scale our 3 MW EH Power Blocks - with integrated containerized steam methane reforming - into a turnkey power plant solution for smaller data center and industrial needs. They are the ideal fit for inference data centers, urban environments or pairing with a modular data center. Through our partner network, we can also offer customers a complete turnkey behind-the-meter data center - the EH Modular Power Plant combined with a modular data center.

REFERENCE CONFIGURATION FOR MODULAR PLANT	
Configuration	Standardized 3 MW blocks (EH Power Blocks) in an N+1 arrangement, maintaining full rated output with one block down
Building block	12 × 250 kW EH Energy fuel cell systems + balance of plant per 40-ft container = 3 MW
Redundancy options	N+1 standard; N+2 available
Fuel input	Fuel-flexible: hydrogen, or natural gas via modular steam methane reforming (SMR) with optional carbon capture
On-site hydrogen	Containerized steam methane reforming produces PEM-grade hydrogen (99.999% purity) directly from natural gas - no additional purification stage; add carbon capture for low-carbon “blue” operation

REFERENCE CONFIGURATION FOR MODULAR PLANT (Continued)	
Electrical efficiency	50% at full load; up to ~57% at part load
Power density	3 MW per 40-ft container
Maintenance	Routine service executable by site technicians - scheduled stack replacement

EH Bespoke Power Plants - up to gigawatt scale

For large data center and industrial customers, we partner to design bespoke power plants for large power needs - up to gigawatt scale. We work with your EPC or bring in our preferred partners to support overall site design.

A bespoke EH Energy site design includes

EH Power Blocks

Standardized 3 MW fuel cell blocks as the core generating units

Reforming farm

On-site steam methane reforming sized to the plant, with optional carbon capture

Hydrogen storage buffer

For firm, uninterrupted operation and load flexibility

Delivered together with your EPC or our preferred partners, so overall site design, deployment and integration stay reliable and expertise-led.

Fuel-agnostic by design

The platform runs on whatever fuel the site can secure:

Green hydrogen

Natural gas + SMR

Methanol or ammonia (via reformer or cracker)

Why EH Energy?

Scalable and modular.

Power plant formats for large and small data center and industrial customers, all based on the EH Power Block.

Bespoke design for large customers.

Power plant design in line with your project need, partnering with your EPC or our preferred partners.

High deployment reliability.

A deployment partnership built for reliability: EH focuses on its fuel cell expertise and partners with experts who bring theirs.

Competitive costs.

Competitive with incumbent alternatives, driven by our stack production innovation and manufacturing partner scale.

Fast time to power.

Available now, with deployments in the next 18–24 months, while gas turbine lead times now stretch beyond three years.

Why EH Energy? (Continued)

Clean and quiet.

No combustion, no particulates, no NOx using hydrogen gas as fuel feed; faster permitting in air-quality-constrained locations and low noise for urban and edge sites.

Serviceable and monitored.

Modular replacement, telemetry and predictive maintenance; routine service executable by site technicians.