Bloomenergy[®]

The Bloom Energy Server® 6.5

Bloom Energy's solid oxide fuel cell (SOFC) platform provides a non-combustion pathway to convert fuels directly to electricity without combustion. The Energy Server is fuel-flexible and can generate energy using natural gas, blended hydrogen, biogas, or hydrogen. A modular platform approach provides a pathway to upgrade existing systems to align with our customers' sustainability goals over time. With no water consumption during normal operation and high operational efficiency, the Bloom Energy Server significantly reduces greenhouse emissions today, providing a pathway to operate with cleaner fuels.

The Bloom Energy Server provides reliable and resilient power to facilities. It is designed in a modular concept that is ideal for on-site distributed power generation, operating 24x7, and supporting the power demand in a grid-parallel or microgrid architecture. In addition, the heat from the exhaust can be captured from the Energy Server and integrated into a Combined Heat and Power (CHP) application.

Bloom Energy has over 1.4 GW of power generation installations deployed globally across eight countries. The Energy Server is suitable to address power needs in any industry and has multimegawatt installations across industries such as retail, data centers, hospitals, sporting arenas, manufacturing, and warehousing.





Clean

Our systems reduce criteria pollutants (NOx, SOx, and particulate matter) to near zero and has far lower carbon emissions than legacy technologies.



Reliable

Bloom Energy Server is designed around a modular architecture of simple repeating elements. This enables us to generate power 24 x 7 x 365.



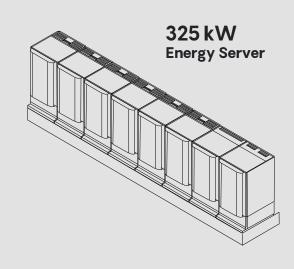
Resilient

Our system operates at very high availability due to its fault-tolerant design and its use of a robust natural gas pipeline system. The Bloom Energy Server has survived extreme weather events and other incidences and continues to provide power to our customers.



Simple Installation and Maintenance

The Energy Server is 'plug and play' and has been designed in compliance with a variety of safety standards. Bloom Energy manages all aspects of installation, operation and maintenance of the systems.



Specifications

Outputs

Nameplate power output (net AC)_325 kW

Voltage ______ 3-ph, 480, 415, 400 and 380 V

Frequency ______50/60 Hz

Inputs

Fuel¹ ______ Natural gas

Input fuel pressure ______ 12–18 psig (15 psig nominal)

0.82-1.24 bar (1 bar nominal)

Efficiency

Cumulative electrical efficiency _____ 65–53% (LHV net AC) Heat rate (HHV) _____ 5.811–7.127 Btu/kWh (6.131–7.519 kJ/kWh) Cumulative thermal efficiency _____ >36% (exhaust heat available @ >350 $^{\circ}$ C) Total efficiency _____ >90%

_____ None during normal operation

Emissions²

NOx	_ 0.003 lbs/MWh (0.001 kg/MWh)
SOx	_ Negligible
CO	- 0.013 lbs/MWh (0.005 kg/MWh)
VOCs	- 0.01 lbs/MWh (0.004 kg/MWh)
CO ₂ @ stated efficiency	-679-833 lbs/MWh (308 - 378 kg/MWh

- 1. Contact Bloom Energy for information on using biogas, blended hydrogen and hydrogen with the Energy Server
- 2. NOx and CO measured per CARB Method 100, VOCs measured as hexane by SCAQMD Method 25.3
- 3. Certifications expected to be available in early 2026

Physical Attributes and Environment

Weight (w/skid) —	-28,745 lbs (13 mt)
Dimensions (w/skid)	_ 29'5" x 4'4" x 8'2" (9 m x 1.3 m x 2.5 m
Temperature range	20 °C to 45 °C (-4 °F to 113 °F)
Humidity	0%-100%
Seismic vibration —	ASCE7 SDC (Seismic Design Category) D
Location —	Outdoor
Noise	_<65 dBA @ 10 ft (3 m)

Codes and Standards

Safety ______ FC1, UL 1741, UL 1998, CE, KESCO

EMC _____ EN 61000-6-2, EN 61000-6-4, KS C 9610-6-2, KS C 9610-6-4

Grid Interconnection ___ IEEE 1547 2018, UL 1741 SB, CA Rule 21, CEI 016, KEPCO, G99, VDE-41103, C10/11

Meets stringent CARB 2007 Distributed Generation emission standards.

An Energy Server is a Stationary Fuel Cell Power System. It is Listed by UL Solutions (UL LLC) as a 'Stationary Fuel Cell Power System' to ANSI/CSA FC1-2014 under UL Category IRGZ and UL File Number MH45102.

Additional Benefits

Access to a secure website to monitor system performance & environmental benefits. Remotely managed and monitored by Bloom Energy. Capable of emergency stop based on input from the site.



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bloomenergy.com

Flexible. Future Proof.

Accelerate your path to a zero-carbon future.

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