3 Great Pasture Road, Danbury, CT 06810
Phone: (203) 825-6000 | Email: info@fce.com
Website: fuelcellenergy.com

Data Sheet

3000 Fuel Cell System

A 2500 kW fuel cell system for reliable, low-carbon distributed energy generation

FuelCell Energy's 3000 fuel cell system generates 2500 kW of reliable, efficient, and low-carbon power. The fuel flexible system is capable of operating on natural gas, biogas, and natural gas/H_2 blends of up to 40% H_2 with no reduction in power output or efficiency. The system produces heat that can be used to generate hot water, high-pressure steam, or cooling to increase overall efficiency. The 3000's low emissions profile allows for quicker permitting, providing customers with faster time to power.

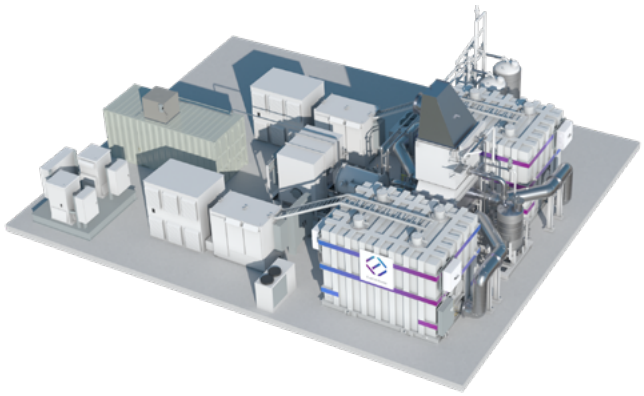
Key Benefits

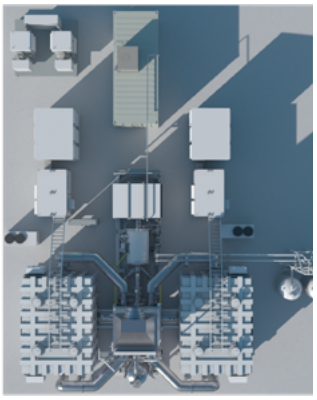
- Fuel flexible
- Efficient power
- Low emissions
- Microgrid capable
- Compact footprint
- Scalable design

System Outputs	
Nameplate Power Output	2500 kW
Voltage	3-phase, 13,800 V
Frequency	60 Hz
Noise	72 dBA @ 10 ft
System Inputs	
Fuel	Natural Gas, Biogas[1], Natural Gas/Hydrogen Blend[2]
Water Consumption/Discharge	8 gpm/4 gpm
Efficiency	
Electrical Efficiency (LHV)	49% - 44%
Heat Rate (HHV)	7,720 - 8,578 Btu/kWh
Total Efficiency	>80%
Emissions	
NO_x Emissions	< 0.01 lb/MWh
VOC, PM10, SO_x Emissions	Negligible
CO_2 Emissions	890 - 990 lb/MWh
Environment	
Location	Outdoor
Temperature Range	-20°F to 120°F
Codes & Standards	
Safety	CSA-FC1, UL1741, NFPA 70 (NEC)
Grid Interconnection	IEEE 1547, CA Rule 21
Emissions	CARB 2007, CARB 2013 (Biogas)

System Dimensions

Length	60’
Width	55’
Height	25’ 5”





[1]Biogas must be pre-conditioned to meet FCE’s fuel composition requirements. FCE can supply the pre-conditioning system, if desired. Ratings listed based on 60% methane. [2]Power output and efficiency are impacted at H_2 concentrations >40%.

FuelCell Energy

3 Great Pasture Road
Danbury, CT 06810
(203) 825-6000

fuelcellenergy.com