



FuelCell  
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## Data Sheet

# 1500 Fuel Cell System

## A 1250 kW fuel cell system for reliable, low-carbon distributed energy generation

FuelCell Energy's 1500 fuel cell system generates 1250 kW of reliable, efficient, and low-carbon power. The fuel flexible system is capable of operating on natural gas, biogas, and natural gas/H<sub>2</sub> blends of up to 40% H<sub>2</sub> 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 1500's low emissions profile allows for quicker permitting, providing customers with faster time to power.

### Key Benefits



Fuel  
flexible



Carbon capture  
ready



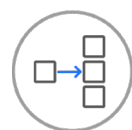
Low  
emissions



Microgrid  
capable



Usable  
heat



Scalable  
design

### System Outputs

|                        |                |
|------------------------|----------------|
| Nameplate Power Output | 1250 kW        |
| Voltage                | 3-phase, 480 V |
| Frequency              | 60 Hz          |
| Noise                  | 72 dBA @ 10 ft |

### System Inputs

|                             |  |
|-----------------------------|--|
| Fuel                        | Natural Gas, Biogas <sup>1</sup> , Natural Gas/Hydrogen Blend <sup>2</sup> |
| Water Consumption/Discharge | 4 gpm/2 gpm  |

### Efficiency

|                             |                       |
|-----------------------------|-----------------------|
| Electrical Efficiency (LHV) | 49% - 44%             |
| Heat Rate (HHV)             | 7,720 - 8,578 Btu/kWh |
| Total Efficiency            | >80%                  |

### Emissions

|                                      |                  |
|--------------------------------------|------------------|
| NO <sub>x</sub> Emissions            | < 0.01 lb/MWh    |
| VOC, PM10, SO <sub>x</sub> Emissions | Negligible       |
| CO <sub>2</sub> Emissions            | 890 - 990 lb/MWh |

### Environment

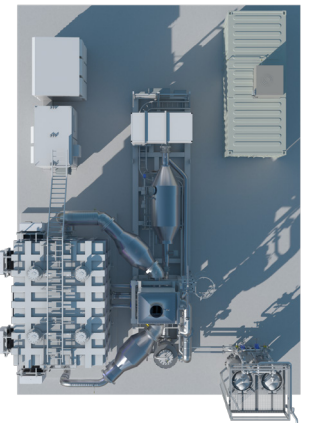
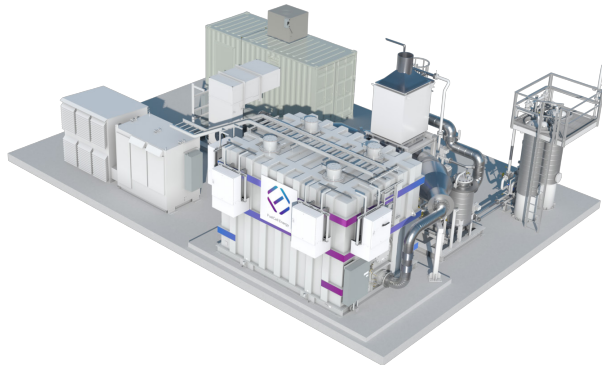
|                   |                |
|-------------------|----------------|
| Location          | Outdoor        |
| Temperature Range | -20°F to 120°F |

### 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 | 58' 0" |
| Width  | 42' 0" |
| Height | 20' 0" |



<sup>1</sup>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. <sup>2</sup>Power output and efficiency are impacted at H<sub>2</sub> concentrations >40%.

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