CLEAN POWER ON DEMAND
Bloom Energy's ES-5700 delivers clean power to meet your base load electricity needs. Seamlessly producing power in parallel with the utility grid, the ES-5700 will reduce your emissions and save you money.

RELIABLE RISK MITIGATION
The ES-5700 operates at unmatched electrical efficiencies. That means that it consumes less fuel and produces less CO₂ than competing technologies. By providing efficient power on-site, the economic and environmental benefits of your ES-5700 will continue to increase.

INNOVATIVE TECHNOLOGY
Utilizing solid oxide fuel cell (SOFC) technology first developed for NASA's Mars program, the ES-5700 produces clean power. Unlike other fuel cell technologies, Bloom's SOFCs are well-suited to high-volume, low-cost manufacturing which also makes them uniquely affordable. The ES-5700 also employs a modular architecture that enables the total installation size to be tailored to your base load electricity demand.

ALL-ELECTRIC POWER
The ES-5700's superior electrical efficiency eliminates the need for complicated CHP systems, and expands the deployment opportunities available to you. Your ES-5700 can be installed outdoors in hours rather than months or years.

FUEL FLEXIBILITY
The ES-5700 can run on natural gas, as well as renewable fuels like biogas. You choose what works for you. Onsite fuels can provide added insurance for your critical loads, and the ES-5700 can easily accommodate those needs.

Future generations of Bloom's Energy Servers will offer the unique capacity to operate both as an energy generation and storage device, thus creating a bridge to a 100% renewable energy future.

About Bloom Energy
Bloom Energy is making clean, reliable energy affordable. Our unique on-site power generation systems utilize an innovative fuel cell technology with roots in NASA's Mars program. By leveraging breakthrough advances in materials science, Bloom Energy systems are among the most efficient energy generators, providing for significantly reduced operating costs and dramatically lower greenhouse gas emissions. By generating power where it is consumed, Bloom Energy offers increased electrical reliability and improved energy security, providing a clear path to energy independence.

Headquarters:
Sunnyvale, California

For More Information:
info@bloomenergy.com
YOUR POWER IS SECURE
The ES-5700 has been designed in compliance to a variety of safety standards, and is backed by a comprehensive warranty. The ES-5700 actively communicates with Bloom Energy's network operations center. Should the system require unscheduled maintenance, we'll be deploying a solution before you even know there's a problem.

### Technical Highlights

#### Inputs
- **Fuels**: Natural Gas, Directed Biogas
- **Input fuel pressure**: 15 psig
- **Fuel required @ rated power**: 1.32 MMBtu/hr of natural gas

#### Outputs
- **Nameplate power output (net AC)**: 210kW
- **Base load output (net AC)**: 200kW
- **Electrical efficiency (LHV net AC)**: > 50%
- **Electrical connection**: 480V @ 60 Hz, 3 or 4-wire 3 phase

#### Physical
- **Weight**: 19.4 tons
- **Size**: 26' 5" x 8' 7" x 6' 9"

#### Emissions
- **NOx**: < 0.01 lbs/MW-hr
- **SOx**: negligible
- **CO**: < 0.10 lbs/MW-hr
- **VOCs**: < 0.02 lbs/MW-hr
- **CO₂ @ specified efficiency**: 773 lbs/MW-hr on natural gas; carbon neutral on Directed Biogas

#### Environment
- **Standard temperature range**: -20° to 45° C (extreme weather kit optional)
- **Humidity**: 0% - 100%
- **Seismic Vibration**: IBC site class D
- **Location**: Outdoor
- **Noise @ rated power**: < 70 DB @ 6 feet

#### Codes and Standards
- Complies with Rule 21 interconnection and IEEE 1547 standards
- Exempt from CA Air District permitting; meets stringent CARB 2007 emissions standards
- Product listed by Underwriters Laboratories Inc. (UL) to ANSI/CSA America FC 1-2004

#### Additional Notes
- Includes a secure website for you to showcase performance & environmental benefits
- Remotely managed and monitored by Bloom Energy
- Capable of emergency stop based on input from your facility