Bloomenergy®

What Powers You

Data Center Overview

Mission

To make clean, reliable energy affordable for everyone in the world

Who We Are

Bloom Energy empowers data center owners and operators to take charge of their energy. The company's leading solid oxide platform for distributed generation of electricity and hydrogen is changing the future of energy. Data Centers around the world turn to Bloom Energy as a trusted partner to deliver the power needed to get critical infrastructure commissioned and turned over in a reasonable time frame. Our future-proof technology delivers lower-carbon energy today, while enabling for a net-zero tomorrow.

AlwaysON, Clean Energy

Data center owners and operators are facing challenges from the high demand for critical infrastructure, coupled with unprecedented supply chain and power supply constraints. Bloom's energy platform is poised to meet these challenges head on. The Bloom Energy Server is an onsite power generation platform that delivers highly reliable, predictable 24x7 power. Using solid oxide fuel cell technology, Energy Servers convert natural gas, biogas, or hydrogen into electricity at a high efficiency and without combustion, significantly reducing environmental impacts.

Resilient, Reliable Energy

The grid outages in the USA have increased 60% over the past decade and electric utilities are running out of power in markets such as Northern Virginia, Silicon Valley, Los Angeles, and the Pacific Northwest. Bloom's Microgrid enables data center owners and operators to continue leasing data center space in grid constrained markets by providing 24x7 onsite power.

Quick Facts

Founded	Established in 2001 as Ion America, renamed Bloom Energy in 2006
Business Model	Distributed energy and hydrogen production company
Technology	Bloom Energy Server and Bloom Electrolyzer, powered by Bloom's proprietary solid oxide platform
Solutions	Distributed electricity production, hydrogen generation, and marine transportation
Revenue	2022 revenue of >$1 billion
Employees	2,000
Headquarters	San Jose, California
Customers	Over 150 customers across 1,000 sites
Deployed Systems	1 GW

Clean Energy

Carbon Impact

Bloom Energy Servers convert fuel into electricity at the highest efficiency of any power solution available today. By using fuel more efficiently, Servers running on natural gas produce less carbon emissions compared to the average of U.S. marginal power generators. Additionally, a portion of Bloom's fleet runs on renewable biogas that generates carbon-neutral electricity. In 2020, Bloom Energy Servers achieved approximately 440,000 metric tonnes of CO_2 reduction vs. grid alternatives.

Air Quality Impact

Because fuel cells are a non-combustion technology, Energy Servers produce virtually zero of the criteria air pollutants that form smog, cause asthma, and worsen public health. In 2020, Bloom's solution achieved approximately 550,000 pounds of SOx reductions and 2.2 million pounds of NOx reduction, a 100% and 99.7% reduction vs. grid alternatives respectively.

High Power Density

Bloom provides significant power generation in a small footprint. For example, Bloom's solution is approximately 125 times more space-efficient than solar power generation. Because Energy Servers are modular, customers can easily scale the solution as their business and demand for power grows.

Unlock The Hydrogen Future

Our Bloom Electrolyzer is at the forefront of innovation as we develop the technology to enable to the hydrogen economy of the future. Our unique solid oxide technology produces hydrogen using less electricity, drastically reducing the costs of hydrogen production and helping to bolster adoption. We are proud to have won the award for Best Emerging Technology at the 2021 S&P Global Platts Award. Bloom Energy's Electrolyzer proves that powering our planet through hydrogen is not only possible–it's here. Electricity accounts for nearly 80 percent of cost of hydrogen production through electrolysis. Bloom Electrolyzer to produce clean, affordable hydrogen at scale, which customers can use either as a fuel source or store for consumption at a later date, powering the future of hydrogen adoption forward.

Industry Timeline

2009 First installation at Google

2013 First data center microgrid

2015 Utility drops 138kV feed, Bloom powers data center without impact

2017 100 MWs in data center/ technology installations

37 MW announced with Equinix

2018 Frost and Sullivan Technology Innovation Award for data center power infrastructure

2021 40th data center installation

Customers

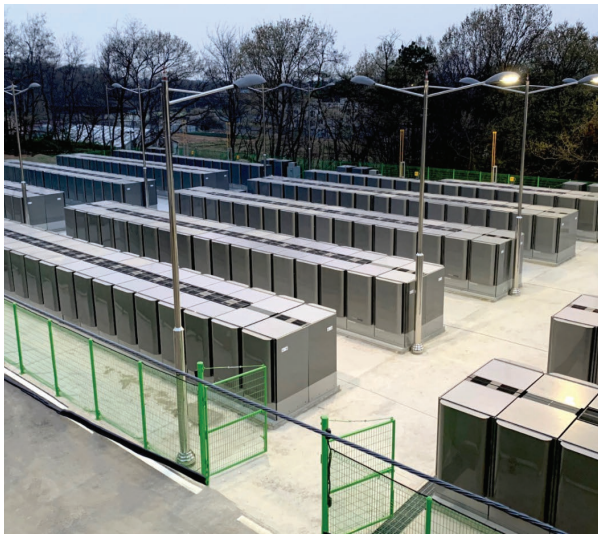
Customers are the cornerstone of Bloom's mission.
These are some of the leading companies who have chosen Bloom:

EQUINIX · Extreme networks · CoreSite An American Tower Company · verizon · Genentech · SevOne · DIGITAL REALTY · T-Mobile · ORACLE · intel · AT&T

Equinix Data Center
1 MW | San Jose, CA

Healthcare Data Center
4.75 MW | Napa Valley, CA

KOEN Bundang Power Tower
8.35 MW | Bundang, South Korea



Hwasung
19.8 MW | Paju, South Korea

KT Daeduk
900 kW | South Korea

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