

Korea South-East Power Installs Bloom Energy Server at Bundang Power Plant

Bloom Energy Japan Limited (“Bloom Energy Japan”) today announced it installed and officially started operating an 8,350kW (8.35MW) Bloom Energy Server, an innovative and clean electricity generation system, for the Bundang combined thermal power plant (“Bundang Power Plant”) which is operated by South Korea’s Korea South-East Power Corporation (“KOEN”).

The Bloom Energy Server is a breakthrough solid oxide fuel cell technology that generates clean electricity at over 60% efficiency during initial performance. Bloom Energy Servers have been installed in many locations that require uninterrupted power supply such as data centers, manufacturing operations, large-scale commercial facilities, and government offices with high energy loads, including refrigeration and critical services in the United States.

For the Bundang Power Plant project, the capacity of the Bloom Energy Server is 8,350kW and all the produced electricity is sold to Korea Power Exchange (KPX) by KOEN and finally delivered to households and enterprises.

In South Korea, all power companies with more than 500MW of generation capacity are obligated to produce a certain percentage of electricity by renewable and new energy sources, including fuel cells, under the Renewable Portfolio Standard (RPS) system. KOEN is installing Bloom Energy Servers to meet their RPS target.

This Bundang Power Plant project is the first project outside Japan for Bloom Energy Japan and also the very first installation case of industrial and commercial solid oxide fuel cells (SOFC) in South Korea*¹ which utilizes natural gas from existing infrastructure. This is the first project in which Bloom Energy Japan has applied a stacking structure, which we call “Power Tower.” The “Power Tower” enables users to save space and promotes overall energy efficiency with a heat recovery system as an optional service.

*1 Source: company research, as of April 17, 2019.

Bloom Energy Japan will work to supply electricity generated by highly efficient Bloom Energy Servers to reduce carbon dioxide emissions and air pollution in the industrial sector not only in Japan, but also abroad.

Outline of the Bloom Energy Server at the Bundang Power Plant:

Location	Bundang-ro, 336, Bundang-gu, Sungnam-si, Gyeonggi-do, South Korea
Area	470 m ² (approx.)* ² x 4 stories
Power Capacity	8,350kW (total 28 systems)
Rated Electric Efficiency	60%+(LHV) * ³
Size (W x H x D) / Weight	300MW system : approx. 10.1m x 1.3m x 2.1m / 15.4t 200MW system : approx. 8.9m x 1.3m x 2.1m / 13.6t
Commercial operation date	November 30, 2018* ⁴

*2 Including maintenance space

*3 Initial performance

*4 Official completion date.

Photo of Bloom Energy Server at Bundang Power Plant



Exterior of the Power Tower at Bundang Power Plant



About Bloom Energy:

The company was founded in 2001 with a mission to make clean, reliable energy affordable for everyone in the world. Bloom Energy Servers are currently producing power for many Fortune 500 companies including Google, Walmart, AT&T, eBay, and The Coca-Cola Company. The company is headquartered in the United States at Sunnyvale, California. For more information, visit www.bloomenergy.com.

About the Bloom Energy Server:

The Bloom Energy Server is a breakthrough solid oxide fuel cell technology generating clean, highly-efficient on-site power. The technology has roots in the NASA Space Program and is fundamentally different from the legacy “hydrogen” fuel cells. The Bloom Energy Server has the ability to run town gas, provides

unmatched efficiency in converting fuel to electricity and is easily deployed and maintained. Bloom's flexible, modular technology can be tailored in size to each customer's need.

About Bloom Energy Japan:

Bloom Energy Japan was created to provide a reliable electricity alternative that is at once safe, clean, affordable, and compact, and provides electricity 24/7. With the establishment of the Joint Venture, SoftBank Group adds distributed baseload power from Bloom Energy to its portfolio and further encourages the domestic use of clean energy complementing its existing portfolio of renewable energy sources such as solar and wind.

Name:	Bloom Energy Japan Limited
Capital Structure:	SB Power Management 50% Bloom Energy Corporation 50%
Business Description:	Provision and marketing of power generated by clean and reliable fuel cells. Equipment importation, installation and other related business activities
Representative Director and CEO:	Shigeki Miwa

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