

Largest J920 FleXtra project in North America provides peaking power solution

**Sky Global Power One power plant
Colorado County, Texas, U.S.A.**

“The excellent electrical efficiency of INNIO’s J920 FleXtra gas engine adds up to big savings in fuel over the life cycle of a plant,” observes Carlos Lange, President and CEO of INNIO.*

“Over 15 years, a U.S. facility could realize fuel savings of as much as \$15 million for a 100 MW J920 FleXtra power plant with very high simple-cycle efficiency and great flexibility. As our launch partners for the 60 Hz J920 FleXtra gas engine, Sky Global and San Bernard will benefit from the unit’s ability to provide utilities and industrial customers with fast, reliable, onsite power during peak power demand periods and as more renewable energy is added to the grid.”



High efficiency cuts fuel and operating costs

Six of INNIO’s ultra-fast, natural gas-fired Jenbacher* J920 FleXtra generator sets are powering the 51 MW Sky Global Power One power plant, which opened in April 2016 in Colorado County, TX, as the largest J920 FleXtra project in North America. The INNIO units, which also are designed to provide baseload power and combined heat and power (CHP) in industrial settings, deliver high efficiency that reduces fuel consumption and lifetime operational costs.

The plant implements a long-term partnership between owner-operator Sky Global Partners and the San Bernard Electric Cooperative (SBEC) to provide peaking power to SBEC, which supplies electricity to more than 18,000 members in a seven-county region in south central Texas.



With Texas accounting for one-tenth of total U.S. energy use, and the state's population growing steadily, power supply is having a hard time keeping up with the growing frequency of peak events.

Sky Global required a high-performance generating solution that furnished clean, affordable energy, operational flexibility, dependability in emergencies, and capabilities that supported the dynamic ERCOT (Electric Reliability Council of Texas) electricity exchange and its potential to increase revenues.

INNIO's J920 Flextra gas engines meet those criteria. Not only do the 8.6 MW units efficiently handle peaking pressures, they can also black start in case of a supply line power interruption and run in island mode to generate power for customers during a grid outage. Another plus is that the plant uses no more water than a single residence.

Customer advantages

- Provides high-efficiency peaking power
- Reduces fuel consumption and operating costs
- Has fast, 5-minute start capability
- Allows participation in electricity exchanges

Key technical data

Number and type of units	6 x Jenbacher J920 Flextra gas engines
Electrical output	51.42 MW
Electrical efficiency	47%
Heat rate	7,264 BTU/kWh
Commissioning	Q1 2016

With a 5 % tolerance according to ISO 3046 the electrical efficiency is as high as 49.35 %

INNIO* is a leading solutions provider of gas engines, power equipment, a digital platform and related services for power generation and gas compression at or near the point of use. With our Jenbacher* and Waukesha* product brands, INNIO pushes beyond the possible and looks boldly toward tomorrow. Our diverse portfolio of reliable, economical and sustainable industrial gas engines generates 200 kW to 10 MW of power for numerous industries globally. We can provide life cycle support to the more than 48,000 delivered gas engines worldwide. And, backed by our service network in more than 100 countries, INNIO connects with you locally for rapid response to your service needs. Headquartered in Jenbach, Austria, the business also has primary operations in Welland, Ontario, Canada, and Waukesha, Wisconsin, US.



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