Press Release

RENEWABLE NATURAL GAS AND COGENERATION AB ENERGY ADDS BIOCH4NGE® IN NORTH AMERICA

Global Leader in Sustainable Energy Production Increases Green Energy Options

Pine Brook NJ – October 19, 2020: With an ever growing demand for cleaner energy sources and CO_2 reductions, Renewable Natural Gas (RNG) is the hot topic for discussion and action across North America.

RNG, also known as biomethane, is a refined natural gas arising from biogas produced from the bacterial breakdown of organic waste materials through anaerobic digestion. The sources of organics are commonly food and food processing waste, farm animal and plant waste, select industrial wastewaters, and municipal sewage.

This clean industry is experiencing massive growth fuelled by the development of technologies and processes designed to extract this valuable and renewable energy resource. It is heavily supported by major organizations, e.g. the American Biogas Council, who provide purity and interconnection guidelines to ensure uniform standards, allowing for the RNG to be injected directly into natural gas utility pipelines for distribution, or for use as a fuel to power vehicles. Leading companies from Anheuser-Busch, L'Oreal to UPS have equally announced their commitment in addressing their global carbon footprint by fuelling their businesses with sustainable RNG.

Enter AB Energy. The company already known as a groundbreaking pioneer in cogeneration systems within the global energy market through its ECOMAX® line, is proud to announce the introduction of its innovative BIOCH4NGE® technology to the North American market. BIOCH4NGE® is the culmination of nearly four decades of advancements from the experience AB has acquired as an industry leader in the cogeneration sector. BIOCH4NGE® is compact, modular, easily scalable, versatile in application, and exceptional in its ability to upgrade and purify raw biogas into RNG at a low cost of operation.

At its core, BIOCH4NGE® employs advanced membrane technology to separate methane from the water, CO2, H2S, VOCs, and other impurities found in biogas. Biogas enters the first stage of the process, where primary filtration followed by a chilled water exchanger condenses water vapor to dehumidify the biogas. This gas is compressed, cooled by a second heat exchanger, and delivered under strict temperature and pressure conditions to the secondary filtration stage. Here, the gas is "stripped" of residual H2S and VOCs and sent to the heart of the system, where it passes through AB's proprietary membrane system separating the CO2 and CH4 molecules. The purified methane exiting the process is now ready for beneficial re-use.

AB pre-assembles and tests each BIOCH4NGE® system in the company's production facility as part of its rigorous quality control regimen. This step dramatically reduces onsite installation and commissioning efforts, saving clients substantial costs and avoidable start-up challenges.

"BIOCH4NGE® is the crowning achievement of our RNG production sector," exclaims AB President Angelo Baronchelli. "This technology represents the best of our engineering and industrial and operational expertise, delivering a highly efficient and reliable solution to recover methane from biogas. It's an ideal alternative process for clients already operating an RNG facility and a strong contender for those who are considering entering the market."

With the ECOMAX® to complement BIOCH4NGE®, AB provides valuable resources for companies looking to reduce their carbon footprint while increasing their reliability and resilience. ECOMAX® high efficiencies in power generation and heat recovery help biogas facilities replace traditional energy sources, allowing for more efficient operations and lower carbon emissions. This combination not only benefits the environment and ensures continuous operation, but allows facilities to achieve an even lower CI and consequently, a greater number of credits.

Industry leading technologies combine for a greener, renewable future - with ECOMAX® and BIOCH4NGE® ready to energize the way for businesses, transportation, homes and more.

For more information and to get the full story on how ECOMAX® and BIOCH4NGE® can improve operational performance while saving you money for your existing or planned RNG facility, please contact:

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About AB (www.gruppoab.com)

Since 1981 we have been working side by side with our customers to help them become more competitive through improved energy efficiency and reduced emission. Our manufacturing know-how and capability of best-in-class power plants, combined with exceptional service support for the life of a project is unmatched in the industry. This ensures maximum performance and reliability of the products we bring to market. Our main production and engineering activities are concentrated in the modern industrial center of Orzinuovi (located near Milan in Italy), with facilities covering over 34,000 m2 (366,000 sqft). The Group has over 1,000 employees with direct subsidiaries in 21 countries around the world. Building on our leadership position in the cogeneration sector we even developed gas cleaning and conditioning systems for siloxane removal and landfill gas treatment. Our commitment to biofuels is furthermore substantiated through the development of modular Renewable Natural Gas (RNG) solutions. This either for injection in natural gas grids or for liquefaction. Most recently, our ongoing commitment to reducing the environmental footprint of our products has culminated in the strategic acquisition of a company specialized in the design, construction and installation of emission control technologies.