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2G Energy increases the electrical output across biogas portfolio

Thanks to tireless efforts in research and development, 2G significantly increased the electrical efficiency of its products. Since May 2023, the standard electrical output of most biogas-fueled CHP in the output range up to 600 kW was increased by 10% on average.

Heek, 04/19/2023: The systemic importance of flexible electricity generation fueled by biogas continues to increase as a result of the growing share of energy production reliant on sun and wind. Every kilowatt-hour produced by reliable, renewable energies is worth its weight in gold, especially when sun and wind are not consistently available. The output increase across the biogas portfolio goes some way to respond to this significant development, as 2G's CTO Frank Grewe explains: "By increasing the output of our biogas-fueled CHP we are making another contribution to regeneratively produced energy being available at the push of a button whenever the winds don't blow, and the sun doesn't shine." Grewe also highlights the impact on system operators, who now have added income potential: "Throughout the past year, developments on the electricity market were shaped by unprecedented price fluctuations which, in the end, even required a political intervention. Even though dramatic geopolitical events were at the root of the past year's developments, fluctuations will continue to accompany us over the coming years. Through the increased system output, operators of biogas-fueled CHP have more options in terms of flexibility and revenue." Another advantage for operators: increasing the electrical output of systems simultaneously lowers the specific investment costs per kW installed.

In terms of absolute numbers, the agenitor 404ct now has an electrical output of 180 kW (previously 160 kWel), the agenitor 406ct of 275 kWel (previously 250 kWel), the agenitor 408ct of 400 kWel (previously 360 kWel) and the avus 500plus now has an output of 600 kWel (previously 550 kWel). The increase in absolute output also entails a slight increase of the electrical efficiency for these systems.

Increased output is based on development efforts of recent years

Depending on the size and version of the system, various technical modifications and the replacement of individual components resulted in this output increase. However, across all versions, the optimizations have a common thread: the increased intermediate pressure. Research and development efforts on specific components laid the foundation for the output increase, but irrespective of this improvement, 2G pushed its overall development efforts immensely during recent years. Grewe attributes the success of these efforts to the proven expertise in all things cogeneration technology at 2G: "Our efforts in research and development go back more than 15 years when we worked on improving the performance of third-party power units and remains, to this day, the basis of our technological edge – especially regarding the standardized and reliable use of hydrogen and other regenerative gas types as fuel in our systems."

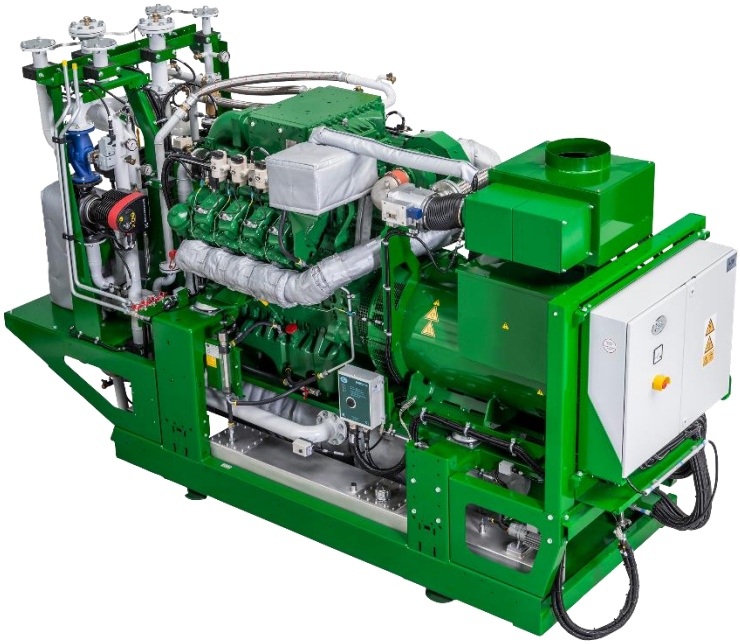

Image: agenitor 408

Source: 2G Energy AG

About 2G Energy

The 2G Energy AG is one of the world's leading manufacturers of combined heat and power generation systems (CHP) which ensure a decentralized supply of heat and electricity using reciprocating piston engines that run on hydrogen, biomethane, biogas, sewage gas, landfill gas or natural gas. The systems in the portfolio range from an electrical output of 20 to 4,500 kW. The customers range from farmers over municipalities, the housing industry, commercial enterprises, medium-scale, and big industrial companies to the energy sector. In addition to the headquarters with the development and production facilities in Heek, part of the "Münsterland" region in western Germany, 2G is represented by subsidiaries in several European countries as well as North America and has about 900 employees worldwide. Since its foundation in 1995, 2G has commissioned more than 8,500 systems throughout the world.

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