

CHP Journal

October 2017

Newsletter of 2G Energy AG



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Preface



Christian Grotholt

Dear reader,

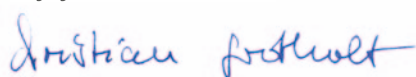
After a thorough presentation of new products, low-emission solutions and innovative accessories from 2G in the last issue of the CHP Journal for the 2017 Hanover trade fair, the majority of the present issue is dedicated to international markets and 2G's continuously growing international network. The cover page shows a photo of the commissioning of a 9 MW mine gas project recently installed in cooperation with national partner companies. The project

involved six CHP modules sold in the standardised 2G containers, which will be maintained by local specialists from the 2G service network.

There is more good news from the USA, where colleagues from the subsidiary in St. Augustine, Florida in collaboration with a local 2G sales partner in Tennessee sold Erlanger Health System a plant with an electrical output of 8 MW and a total order volume of \$6.6 million. This is further proof that the pursued strategy of augmenting sales, installation and service with external, licensed partner companies is increasingly successful. The basis for the sales success is the intensive and sustainable training of these companies. In the last issue of the CHP Journal, we reported on the training of the US distributors in St. Augustine as a kick-off of the new training concept. In May of this year, the first international sales training took place in Heek, where we welcomed 55 participants from 23 countries. The number and diversity of sales partners demonstrates the worldwide faith in CHP technology in general and the 2G brand, in particular.

Nevertheless, in addition to all of the efforts in the international markets, it is essential that we continue to strengthen and expand the German domestic market and customer base. Feedback was very positive after the 2017 Info Days on increasing flexibility of existing biogas plants. The report is on page 18.

Enjoy the issue! Yours,



Christian Grotholt
CEO of 2G Energy AG

Load profile analysis identifies CHP

2G offers a brief explanation of the efficiency of CHP investments with a computer-based tool

For a brief explanation of the profitability of investments in combined heat and power plants, 2G offers a new service utilizing computer-based tools, which analyzes the electricity and gas load profiles of persons interested in CHP plants. For the sales manager and managing director of 2G Rental GmbH, Alfred Gayer, the free load profile analysis by 2G is an effective instrument to quickly provide a realistic calculation of the efficiency of CHP



Alfred Gayer, Sales Manager of 2G and Managing Director of 2G Rental GmbH.

investments: "It is only necessary to enter the data that is actually taken into account in the concrete case. This includes, for instance, the individual reference prices for electricity and gas, the CHP operating time and the buffer storage capacity and the latest possible load profiles. The frequently changing and complicated political boundary conditions, such as the Combined Heat and Power Generation Act (KWHG) or the Renewable Energy Act (EEG) are incorporated based on a database

up to the current day and automatically incorporated into the efficiency calculation. Already implemented plants over the entire 2G portfolio from 20 to 2000 kW makes it clear that the efficiency analysis furnishes proof of their value in practice."

If no real load profiles are available from the customer as a basis for the efficiency analysis, a virtual load profile can be created using the analytical tool on the basis of a variety of standard load profiles that are differentiated by sector. In addition to the consideration of sector-specific data, this is calculated based on the climate in the location, operating hours, and the share of process heat, among other factors. In the configuration of the most efficiently advantageous CHP output, the analytical tool provides support with calculation of different variants with CHP modules having different outputs.

Rehau District Hospital invests in g-box 50 based on an efficiency analysis

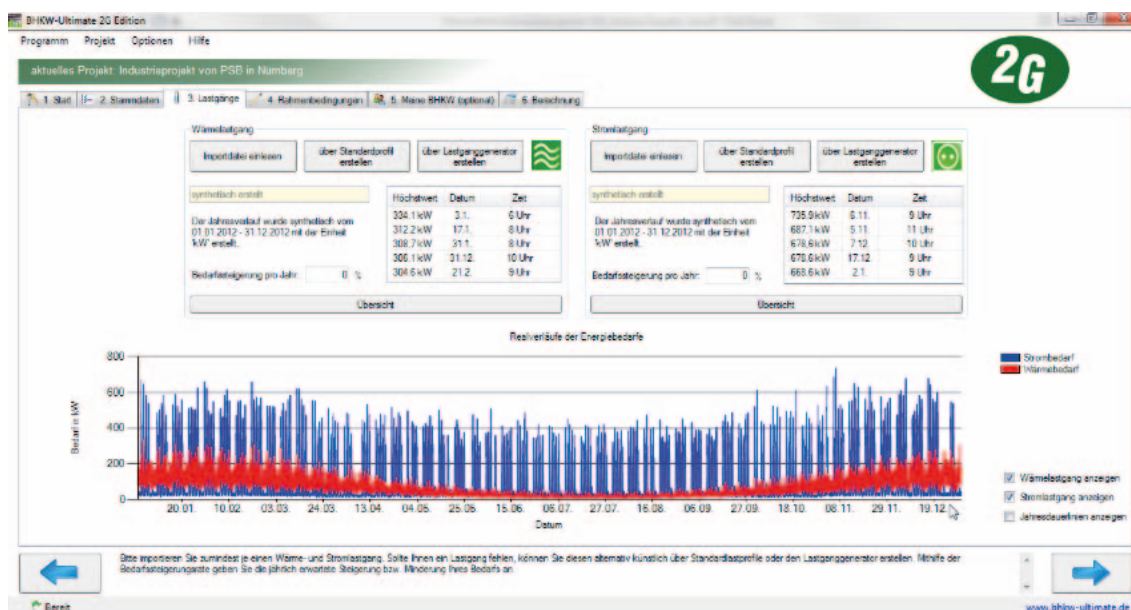
The 2G profitability assessment was the basis of the Rehau District Hospital in Oberfranken's investment in a g-box 50 with an electrical output of 50 kW and a thermal output of 100 kW. The CHP covers a majority of the average annual requirement of electrical power (approx. 60 %) and heat (approx. 40 %). Timo Stumpf, Head of Facility Management of GeBO (municipal company of healthcare facilities in the district of Oberfranken) headquartered in Bayreuth,

considers itself affirmed in an investment decision: "With an operating output of 8600 operating hours in the first 13 months and overall availability of more than 99 %, the 2G CHP has confirmed our expectation that it is a safe and efficient component of the hospital power supply. With annual energy cost savings of around €55,000, we achieve the profitability forecast. The g-box 50 paid for itself in about 2.3 years." The g-box 50 with calorific value technology used in the Rehau district hospital achieves an overall efficiency of 103.1 % (34.5 % electric, 68.6 % thermal). Alfred Gayer identifies a variety of expanded possibilities for use of the

***"With savings of around
€55,000 per year, we
achieve the profitability
forecast. Our g-box 50
paid for itself
in a good 2.3 years."***

Timo Stumpf | Head of
Facility Management of GeBO

high-temperature g-box 50 HT introduced in April: "The g-box 50 HT is ideal for use wherever temperature return in a heating circuit is above 70 °C. This pertains, for instance, to hospitals and retirement homes or even industrial applications, where a higher temperature level of the feed of up to 95 °C is required, deviating from the standard. We consider the second application the generation, for example, with an absorption chiller. Since the efficiency of an absorption system with the temperature level of the available heat increases, the combined heat and power generation also becomes more attractive."



A typical annual load profile for heat and electrical power.

Well-tempered and efficient

agenitor 408 supplies an all-weather pool in Ratingen with electrical power and heat



A power plant for the entire pool. It was installed in a concrete sound hood next to the pool (small image).

“The CHP runs and runs and runs.”

Georg Abraham | Dep. Manager of Electrical Power and Heat Production | Ratingen Municipal Works

Location:	Ratingen
Operator:	Stadtwerke Ratingen GmbH
CHP type:	agenitor 408
Gas type:	Natural gas
Electrical power:	360 kW
Therm. power:	400 kW
Installation:	Sound hood/concrete sound hood



The City of Ratingen in North Rhine-Westphalia: is well-known for its all-weather spa. The popular spa has the right offering for every age group, with a sauna landscape, wellness area, indoor pool or outdoor pool. These offerings require a great deal of electrical power and heat. The Ratingen municipal works has already operated a

50 kW CHP for partial supply of the all-weather spa for more than 11 years. At the end of 2016, the system was replaced with a more powerful CHP plant: the agenitor 408 with an electrical output of 360 kW and a thermal output of 400 kW. The plant is heat-controlled, which means it can cover the entire thermal basic load of the all-weather spa. As a result, a majority of the electrical power supply can be provided with the 2G plant. The high electrical and thermal efficiency of 42.5 % and 45.0 % assure an energy supply with maximum efficiency. The agenitor was installed “packed” in a sound hood immediately next to the swimming pool in a concrete sound hood. The noise emissions at a distance of 10 m were only 35 dB (A), which is somewhat quieter than a conventional vacuum cleaner.

Once a g-box, always a g-box

The first g-box ever installed is disconnected from the mains and is replaced by a new g-box



A beautiful moment: Marcel Hartmann, Managing Director of 2G Home GmbH (left), hands over the new g-box 50 to Michael Wilimzig, employee in the engineering staff of the Münster municipal works

Location: Münster-Roxel
Operator: Stadtwerke Münster GmbH
CHP type: g-box 50
Gas type: Natural gas
Electrical power: 50 kW
Therm. Output: 100 kW
Installation: Turbine house



Stadtwerke Münster

Actually, he did not want to give it up. Indeed: "It worked very reliably over the last eleven and a half years." On October 20, 2005, Michael Wilimzig received the very first g-box 50 at the Münster municipal works in Roxel-Nord from Christian Grotholt, the current chair of 2G Energy AG. The Münster municipal works participated in the development of the g-box. On March 22, 2017, exactly 84,737

"It has operated very reliably over the last eleven and a half years."

Michael Wilimzig | employee in the engineering staff of the Münster municipal works heating system in Münster-Roxel

operating hours later, Michael Wilimzig is back for replacement of the plant with integrated calorific value utilization with the latest compact g-box 50 CHP. The task of the compact power plant is unchanged: It continues to supply 250 homes in the neighborhood with heat, "incidentally" generates electricity and spares the environment from massive quantities of CO₂ emissions. Due to its excellent efficiency of 106 %, the first g-box saved 1,058 tons of CO₂ over the past eleven and a half years.

Nothing but the crème de la crème

The Nolli dairy cow farm in the province of Cremona is completely satisfied with their biogas plant

Standort: Mirabello Ciria, Italy
Operator: Nolli farm
CHP type: filius 404
Gas type: Biogas
Electrical output: 100 kW
Therm. Output: : 110 kW
Installation: Container

The Nolli farm in the Italian province of Cremona has three hundred cows. The milk is delivered to the Latteria Soresina dairy, which produces the famous Grana Padano. The stall built for the dairy cows in 2014 by Rota Guida, a specialist for agriculture and renewable energies, is equipped with a biogas plant to make the overall production process as efficient as possible.

The biogas plant is fed with slurry and manure from the farm. The generated biogas is used in a 2G CHP plant, the filius 404 with an electrical output of 100 kW, for the production of electrical power and heat. A pleasant side effect: The digestate generated in the biogas process is a much better fertilizer than pure slurry or pure manure.

The filius 404 was supplied as a 90 % turnkey container solution. "We have added a plant with easy-to-operate software so that we do not require additional personnel to



Satisfied faces (from left to right): Renzo Nolli (Owner, Nolli farm), Alberto Rota (Managing Director, Rota Guido S.r.l.) and Christian Manca (Managing Director, 2G Italia Srl).

"We expect to reap considerable financial benefits quickly."

Renzo Nolli | Owner of Nolli farm

operate the plant. We are very happy with this decision", said Nolli. "We have achieved our current goal. We began with operation recently and expect for the investment to pay for itself within the next 6 years."

High-quality painting, efficient drying

Italian furniture supplier La Torniveneta uses agenitor 312 in the production process



The agenitor 312 was supplied turnkey in a sound-insulated container and commissioned in record time.

“We are extremely satisfied with the unique quality and competence of 2G.”

Renato Anzanello | Technical Manager
La Torniveneta

Location:	Portobuffolè, Italy
Operator:	La Torniveneta S.r.l.
CHP type:	agenitor 312
Gas type:	Natural gas
Electrical output:	450 kW
Therm. output:	481 kW
Installation:	Container

LA TORNIVENETA
INDUSTRIA ANTINE LACCATE

La Torniveneta is a leading Italian manufacturer of high-quality painted and veneered furniture fronts and components. “Our customers include the best furniture manufacturers in Italy and throughout Europe”, explained Technical Manager Renato Anzanello. “In order to remain competitive with international competition in the future, we chose to invest in a CHP plant and thus higher efficiency.” The agenitor 312 from 2G has an electrical

output of 450 kW and a thermal output of 481 kW with an impressive overall efficiency of 84.8 %. The plant was installed in a sound-insulated standard container in record time and supplies the production with electrical power and heat. The heat is used primarily for quick and consistent drying of the painted furniture parts.

From mine gas to green electricity: Premiere in France

Gazonor invests in six 2G plants with total output of 9 megawatts



Large project in northern France: Mine gas is used for power production.

In the old bituminous coal district in Pas-de-Calais, Gazonor SAS, a subsidiary of French gas producer La Française de l'Énergie, installed six CHP from 2G with an overall output of 9 MW in four mine gas locations in June 2017. This is the first use of mine gas for power generation by means of combined heat and power generation in France.

2G took on this challenge and was awarded the tender for this large project with an impressive solution.

About 60 million cubic meters of mine gas are collected. This mine gas is used to generate enough electrical power to cover the consumption of 40,000 people.

In addition, utilization of the gas helps to minimize the day-to-day safety risks and cuts down on thousands of tons of CO₂ emissions each year.

Gazonor has had plans to convert mine gas into electrical power and distribute it over the Enedis network for a long time. The project could now be started with a feed-in tariff for a period of fifteen years.

2G Energie SAS, with its growing team in northern France, will handle the entire life cycle of the project with full maintenance of the installed CHP plants and mine gas compressors.

First g-box 20 for France

Public pool in St-André-Des-Eaux is supplied with electrical power and heat from combined heat and power generation

Combined heat and power generation not limited to agricultural applications and biogas plants – it also makes an important contribution to local production of electrical power and heat in urban areas.

Energy efficiency and environmental protection are a high priority for the City of St-André-Des-Eaux. Therefore, the city decision-makers decided to install a g-box 20 operated with natural gas at the public pool in St-André-Des-Eaux.

This project is a collaboration between La Carène and 2G, in which one of the first micro-CHPs in France is installed. Commissioning is planned by the end of 2017.

2G Energie SAS invests in the future

Two new technicians and two trainees

With two new technicians and the conclusion of two training contracts, 2G Energie SAS makes an important contribution to the education of youths.

“In consideration of the growth of combined heat and power generation in France, it is important that we prepare our team to better react to the requirements of the future and ensure the satisfaction of our current and future customers”, explained Jürgen Klein, Managing Director of 2G Energie SAS.

The two new trainees will complete their system maintenance technician training under the guidance of two 2G technicians. The aim is to teach the trainees the theoretical principles and impart the technical expertise that they need to begin working as qualified technicians for 2G in June 2019.

Partnership with perspective

White Harvest Energy is 2G Energy Inc.'s Newest Distributor

2G Energy Inc. is proud to announce its newest partnership with White Harvest Energy of Chattanooga, TN. White Harvest Energy will represent 2G Energy Inc. as it's official Distributor in Tennessee, Kentucky, North Carolina, South Carolina, North Georgia including Atlanta, North Alabama including Birmingham, the Northern half of Mississippi and Texas.

White Harvest Energy was integral in helping 2G Energy to win the Erlanger Hospital Project in Chattanooga, TN, where four avus 2,000 kW units will be installed next year. Paul Glenister, President & CEO of 2G Energy

Inc., says: "2G is excited about the future prospects of this partnership with White Harvest Energy, and we look forward to using the momentum already gained in this working relationship to continue to develop and grow business in these strategic areas of the U.S."



White Harvest
E N E R G Y

Sales partner receives large contract in the USA

Erlanger Health System invests 6.6 million dollars in combined heat and power generation

The US subsidiary in Florida, 2G Energy Inc., received a large contract for four avus CHP plants operated with natural gas with a total electrical output of 8 MW from Erlanger Health System in Chattanooga, Tennessee, one of the largest public health facilities in the United States. The contract value is approximately \$6.6 million.

The contract was acquired in the scope of the 2G partner network in cooperation with sales partner White Harvest Energy in Tennessee, which will handle the project planning and implementation, as well as

the installation of the CHP modules in containers.

For the purchaser, Erlanger Health System, the benefit of CHP plants are savings of around 20 % of costs with the highly efficient, combined generation of electricity and heat, as well as the reduction of emissions. Furthermore, the reliability of the energy supply in the place of consumption and the quality of service played an important role in awarding the contract to 2G. Erlanger expects an amortization period of four years or less.

Energy from wastewater

Scottish Water uses sewage gas as an energy source



Two CHP plants of the type avus 500 plus utilize high-energy sewage gas to produce electrical power and heat.

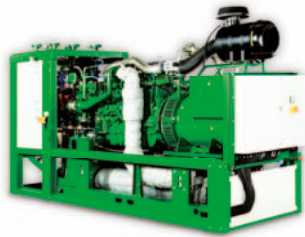
Location: Cumbernauld, United Kingdom
Operator: Scottish Water
CHP type: avus 500 plus
Gas type: Sewage gas
Electrical power: 2 x 550 kW
Therm. output: 2 x 543 kW



Scottish water is a public sewage plant in Cumbernauld, located north of Glasgow, Scotland. Scottish water provides around 1.34 billion liters of drinking water and cleans 847 million liters of wastewater each day. Large quantities of sewage sludge accumulate in the wastewater cleaning in the sewage plant. This is stored in large fermentation tanks. The

sewage gas obtained in the process has been used as fuel by two avus 500 plus units for production of electrical and thermal energy. The two units from 2G each produce 550 kW of electrical energy and 543 kW of thermal energy. This covers a large share of internal electricity requirements. The heat is used to heat the facility building and aid the fermentation process in the fermenter. In this manner, the two CHP modules drastically reduce energy costs at the sewage plant.

Both units are installed in a container and were commissioned quickly in a plug-and-play process after a brief preparation time. Each of the two containers was equipped with a dedicated gas cleaning and drying system to ensure a consistently high gas quality.



Topic series 2017: The agenitor 400 series

Whether in the food industry, in the hospital, the consumer market, hotel or leisure park: hundreds of combined heat and power plants of the innovative agenitor 400 series impress with their outstanding reliability and efficiency in daily operation worldwide. The benefits of the new spark plugs of the agenitor 400 series were discussed in the last issue of the CHP Journal. In this issue, the focus will shift to the pistons.

Part 2: Steel pistons

Lower heat loss, higher electrical efficiency, longer duration of operation

The piston in a combustion engine converts the heat released during the combustion process into mechanical energy. In the process, it is exposed to very high pressures and thermal loads. The piston also acts as a seal of the combustion chamber. It guides the connecting rod, which is connected to the crankshaft, and supports the charge cycle with the intake and expulsion of gases. With a special geometry, the piston mixes the combustion gases, which improves the efficiency of an engine.

While most combustion engines are equipped with aluminum pistons, a steel piston is used in the agenitor 400 series. Aluminum has advantages such as low weight, but is not as durable as steel. Due to its high density, steel is significantly harder and thus significantly harder-wearing than aluminum. The hardness of steel also provides additional crucial advantages. On the one hand, the combustion process operates with a significantly higher pressure (peak values above 180 bar) and at a higher combustion temperature, which achieves higher electrical

efficiency. On the other hand, the rigidity of the material ensures lower friction. This means less abrasion can form. The service life of the piston is extended considerably.



Steel piston (left) compared with a conventional aluminum piston.

Thanks to the piston's special geometry, highly turbulent gas can be introduced and thus burned faster. This increases the efficiency of the steel piston and has a positive effect on the electrical efficiency of the CHP.

First international 2G Sales Expert Training was a total success

55 partners from 23 countries meet for an exchange in the 2G Training Center in Heek



High spirits with the conclusive group photo in front of a 2G container plant in Heek.

International flair at 2G in Heek: 55 distribution partners from 23 countries participated in the first international 2G Sales Expert Training in Heek in mid-May. "Despite the great cultural and linguistic diversity, the first international 2G Sales Expert Training was a total success", summarized Philipp Oenning (Business Development), who helped in the planning and implementation of the three-day event. "Spending very intensive days exchanging knowledge and experience with the interested participants from so many different countries was a very exciting and valuable experience."

The goal of the training was to present the latest innovations and technologies from 2G to the sales partners, discuss current market topics and exchange experiences. Combined heat and power could be seen in operation at the world's largest manufacturer of paint and coating agents, BASF in Münster, and at a biogas plant in Gronau-Epe.

In 2016, 2G rolled out an extensive worldwide sales and service partner concept and has expanded it continually.

In the future, training will be offered to sales partners on a semi-annual basis. Dates for additional training, such as operator training, basic sales training and training for engineers are also available already. The training will be offered in German and English (or in other languages on request).

All training dates are listed in the Training Center on my.2-g.com.

2G international well underway

General meeting 2017 2G distributes higher dividends

At this year's general meeting of 2G Energy AG on 22 July 2017 in Ahaus, Chairman Christian Grotholt presented profitable growth from the 2016 annual report and assured success in the current fiscal year.

The consolidated turnover in 2016 increased by 14 % from the previous year from €152.9 million to €174.3 million. The earnings before interest and taxes (EBIT) increased from €4.8 million to €5.6 million. This corresponds to an EBIT margin of 3.2 %, which is slightly above the previous year's value of 3.1 %. The equity capital ratio remains at a comfortable level of about 50 %.

Consolidated annual profit in 2016 was an unusual minus €1.8 million (previous year €2.6 million). The other operating expenses included an unusual expenditure for business transactions of previous years with an allocation in other provisions in the amount of €1.8 million. This precaution is related to the still unsettled fiscal matters for international supply and service relations of the years 2012 to 2015. There were also unexpected challenges with international large projects in which 2G acted as general contractor.



Christian Grotholt, Chairman of the Board of Directors of 2G Energy AG, looks confidently towards the future.

While there were no grounds for complaint in regard to quality and timely delivery, there were ultimately financial miscalculations. "In the future, we will no longer pursue this type of project business with 2G acting as a general contractor", explained Christian Grotholt.

The announcement that dividends would be increased from 36 to 40 cents for the first time was received positively. "This is a symbol of the financial and reporting strength, assurance of the strength of the current fiscal year 2017 and, not lastly, a means of letting the shareholders participate in our success."

The focus of the current fiscal year is "Lead to Lean", a large-scale program to reduce costs in order to increase profitability, the expansion of the worldwide partner concept and further optimizations in the service business.

2G Service accounted for one-third of consolidated turnover in 2016 with €57.1 million and thus offers a solid, long-term return on sales with increasing profitability. With the expansion of the service network, a Best-in-Class factory service and the digitalization of communication and processes, this business area is developing into an essential performer and contributor in the 2G Group. Improved service planning, the digital call-up of plant parameters in real-time, online ordering of accessories and spare parts and access to current technical documentation ensure customer satisfaction, reliability and efficiency.

Dietmar Brockhaus resigns from the board



Emotional goodbye after five years: Chairman of the Supervisory Board Dr. Lukas Lenz (middle) and CEO Christian Grotholt (right) thank CFO Dietmar Brockhaus for his service.

The Supervisory Board has extended the contracts with Chairman of the Board of Director Christian Grotholt and Technical Chairman Ludger Holtkamp five years until July 2022. CFO Dietmar Brockhaus has chosen to vacate his position on the board on his own request. His contract was amicably terminated on July 31, 2017. The Supervisory Board and CEO Christian Grotholt thanked Dietmar Brockhaus for his service, commitment to the company and good collaboration. Christian Grotholt has assumed the role of CFO for the interim.

Broaden perspectives: Flexibility pays off!

Positive feedback at information event on flexibility



Jörg Lösing, 2G Sales Manager West (left), and Christoph Hörst, 2G District Sales Manager, hold a presentation in Versen.

On 29 June, BV Bioenergie Versen GmbH & Co. KG, located in Meppen, hosted a 2G information event on the topic "Increased flexibility in existing biogas plants". Because operators of biogas plants continue to require information about the opportunities and risks of increased flexibility, the feedback from the invitation to the invitation from 2G Energy AG to this event was very positive.

After the presentation of BV Bioenergie by plant operator Werner Krallmann, topics such as the various possibilities of plant expansion, flexible direct marketing and financing of an additional CHP were discussed.

Information on 2G biogas-flex-quick-check is available in the April 2017 issue of the CHP Journal.



Plant operators use the event for a lively exchange.

Discussion topic No. 1 Increased flexibility

Successful trade fair at the Tarmstedt Exhibition in northern Germany

The 69th Tarmstedt Exhibition took place from 7 to 10 July in the village of Tarmstedt in Lower Saxony. Products and services of 750 exhibitors were presented over an area of 180,000 m² as northern Germany's showcase for agriculture technical and engineering, cattle-show and energy and environmental technology. With 104,000 visitors, the 69th edition of the exhibition was an audience magnet once again.



The agenitor 400 series in Tarmstedt.

2G presented the agenitor 400 series. Additional emphases of the 2G presentation were the financing concept of 2G Rental and 2G Service. The central focus of discussions with trade fair visitors were the increased flexibility and expansion of existing biogas CHPs. "Increasing flexibility of existing plants

pays off, because there is still great potential to be realized with increased output by means of flexible operation of biogas CHPs", explained Sales Manager Alfred Gayer. 2G considers the visit a total success and looks forward to participating next year.

Visit us at the trade fair!

The next trade fair dates

18/10/2017	mcTER Cogenerazione	Verona	Italy
12/12 - 14/12/2017	BIOGAS Convention & Trade Fair	Nürnberg	Germany

Legal information

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