



CHP Journal

April 2017

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Preface



Christian Grotholt

Dear Readers,

This April issue of the CHP Journal is released around this year's Hanover Trade Fair, one of the main pacesetters for industry innovations throughout the world. We considered this trade fair to be a suitable setting for presenting many new technical products and innovations from our company to the general public. We are therefore presenting the new products and services in detail in this edition in conjunction with the trade fair.

The new aura series that was represented at the trade fair by the aura 404 was on show for the first time in Hanover. The strength of the aura is its extremely low exhaust emission values, meaning that the product is perfectly integrated into the steadily rising demands of the global emission regulations. Based on the technology of our 4th series in the power range of 100 kW to 550 kW, the module has outstanding efficiency properties and ensures a reliable continuous operation for our customers. The development of our own SCR catalyst technology was completed as an addition to the new product series in order to prepare all other products from our portfolio for emission-sensitive applications. Further technical innovations such as a standard outdoor sound capsule and the high-temperature version of the g-box 50 are also in this publication.

However, despite all our enthusiasm for new developments and technical innovation, we must not forget the most important components of the 2G philosophy: our customers to whom we want to be a reliable partner. This is why we are dedicating a large part of this edition to our plant operators who will report on their experiences with 2G products gained from many operating hours. It is the trust of many thousand customers from around the globe that the innovations and success of our company ultimately hinge upon. We would like to take this opportunity to express our heartfelt thanks.

Wishing you a pleasant read

A handwritten signature in blue ink that reads 'Christian Grotholt'.

Christian Grotholt
CEO of 2G Energy AG

Energy Partner 4.0:

“We will make you even more successful”

2G is creating an extensive digital communications platform for partners with technical innovations and additional customer benefits



2G Energy AG participated at Hanover Trade Fair 2017 as an innovative solution provider and a genuine partner to its customers during the energy turnaround. Under the motto “Energy Partner 4.0”, 2G not only unveiled technical innovations such as the new aura series with its own 2G lambda-1 technology. It also presented a digital platform for an efficient and highly transparent cooperation with customers, sales partners and service partners.

“In order to be able to actively shape the energy turnaround, we need a global partner network,” explains Stefan Liesner, Business Development Manager at 2G. “It is important for us to communicate with our partners openly and on an equal footing, offer maximum transparency and provide all tools which enable maximum efficiency not only of the 2G plant, but also of the entire process – starting with marketing and commissioning all the way

through to the management of the plant throughout its life cycle.”

A CHP plant of 2G autonomously reported a technical irregularity to the 2G service centre during operation for the first time more than two years ago and in doing so automatically initiated a service assignment. This digital plant monitoring and remote diagnosis was made feasible by “Power Plant”, the heart of the digitized service world at 2G.

“Power Plant” is now only part of the extensive online platform “my.2-g.com” on which 2G provides its sales and service partners as well as plant operators with all relevant information.

my.2-g.com: Technical and administrative data intelligently networked

One of the components of this is the service planner that permits optimum networking between the 2G service staff and 2G service providers and partners. The maintenance work performed is carefully documented in the plant history so that it is possible to retrace who has completed which tasks and installed which parts. A rapid spare parts supply is supported with the electronic parts

catalogue integrated in my.2-g.com and via an interface to the ERP system of 2G.

“We want to be the service provider for our partners’ digital issues.”

“We still have a lot of ground to cover,” insists Arne Köster, Head of Innovation and Digitalization. “We want to be the service provider for our partners’ digital

issues. We are generating added value for plant operators and partners with individual customer interfaces or the Plant Manager for managing all their plants incl. the plants of other manufacturers.”

Highly developed: The new aura series

Low emissions, high thermal efficiencies and economic benefits

The amendment to the German Air Pollution Regulation is likely to be concluded by the Federal Environment Ministry by the middle of the year. 2G Energy AG has developed the new aura series for the natural gas CHP in order to comply with the associated new limits for nitrogen oxide. The two modules aura 404 and 406 with 100 kW and 150 kW electrical output are the result of the engine development of the Group’s subsidiary 2G Drives GmbH and are based on the company’s own lambda-1 technology. This technology is characterized by low emissions and high thermal efficiencies. Frank Grewe, CEO of 2G Drives GmbH, believes the origin of the new development lies in the requirements of international markets: “Urban centers such as Tokyo, London and California have been the triggers for our development work worldwide at 2G with

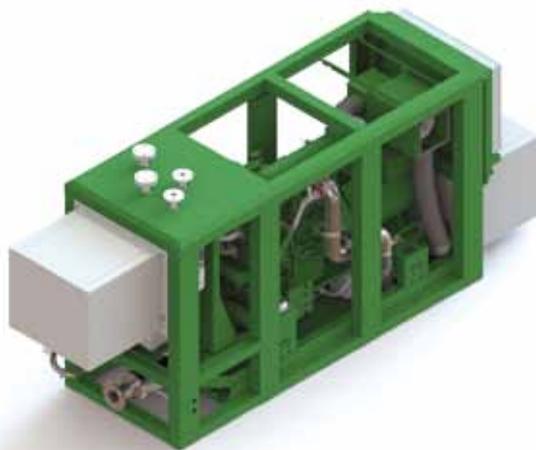
their high requirements for low nitrogen oxide limits. We actually anticipated the response to the tightening of NOx limits to 100 mg/Nm³ by the new German Air Pollution Regulation in our development work.” The new development enables 2G to gain a head start with the 4th generator series against the competition when it comes to experience: 2G has the most operational experience when it comes to employing the state-of-the-art engine technology in Europe with more than 500 units on the market and over 6 million operating hours since the introduction of the 4th series in 2011.

From a plant operator’s perspective, aside from meeting the German Air Pollution Regulation requirements, the focus is on economic arguments when making an investment decision. Alfred Gayer, Sales

Manager of 2G Energy and CEO of 2G Rental GmbH, therefore emphasises the commercial benefits of the new development: "As far as the power output is concerned, we can gain an advantage over the competition with the aura series through a higher specific output of 15 % with the same capacity. The electrical efficiency of 37.0 % and thermal efficiency of 65 % makes it possible to achieve overall efficiency of 102.0 % for the aura 404 module with the help of a calorific exhaust gas heat exchanger."

However, he also believes that the reported ease of service of the 2G engine design with single cylinder heads and, not least, the reduction in investment costs play an important role when it comes to the commercial viewpoint of an investment.

The new aura series was presented at Hanover Trade Fair for the first time. However, the new products will only be introduced onto the market at the start of 2018.



It is barely distinguishable from a 4th series agenitor in terms of its appearance: The new aura series is based on the successful agenitor engine concept.

Type	Output		Efficiency	
	Electrically	Thermally	Electrically	Thermally
aura 404	100 kW	176 kW*	37.0 %	65.0 %
aura 406	150 kW	235 kW**	37.0 %	57.9 %

*For version: Heat extraction with calorific value exchange gas heat exchanger | **Other version available

Fit for the new German Air Pollution Regulation (TA Luft)

agenitor series is equipped with a SCR catalyst for new German Air Pollution Regulation

The proven agenitor series has selective catalytic reduction procedures (SCR catalyst) with urea solution injection – known as AdBlue – to meet the reduced limits of the German Air Pollution Regulation. The engine concept is based on “lean combustion”, i.e. the engine uses 1.8 times the amount of air that would be required to burn the

gas mixture. The CHP modules of the agenitor series such as the agenitor 408 have a high electrical efficiency of 42.5 % and are especially suited to applications in which significant power generation is advantageous for the purposes of self-sufficient power supply or to take part in the electricity market.

New compact outdoor sound capsule

Reduced transport costs and ready for connection



It does not need a special container, but can be shipped overseas and to other foreign markets in a standard container to save transport costs. It is smaller than the proven 2G container solutions. And it also has excellent sound insulation values with 65 dB (A) at a distance of 10 meters. The

new installation solution “2G outdoor sound capsule” is currently being talked about for the outdoor installation of CHP plants. The combined heat and power plant is pre-assembled and ready for connection and can be installed, connected and put into operation quickly on site.

g-box 50 now available as a high temperature version

New module for feeding into the heating circuits with 95 degrees Celsius

The compact natural gas CHP g-box 50 with calorific value technology has been amended to include a high-temperature version (HT). The g-box 50 HT is ideal for use in environments where the return temperature in a heating circuit is above 70 degrees Celsius. This relates e.g. to hospitals and retirement homes and industrial applications such as cleaning procedures for the cathodic dip painting in surface technology. Another

area of application is coupling with an absorption chiller. As the efficiency of a sorption installation increases with the temperature level of the available heat, the trigeneration also becomes more economically attractive. The g-box 50 HT achieves a thermal output of 84 kW at 50 kW_{el} and is therefore well positioned with a feed-in temperature of up to 95 degrees Celsius in the competition between CHP modules.





We present: The 4th series of the agenitor

The 4th series of the agenitor, presented for the first time in 2011, is a further development of the 3rd series and the technically advanced series of 2G. The 4th series has proven its worth hundreds of times in practice worldwide and impresses with its outstanding reliability and efficiency. Frictional power and heat losses are significantly reduced by the use of steel pistons. The four-valve technology enables a highly-efficient gas exchange in the combustion chamber. And a micro-processor controlled ignition ensures that the ignition time and ignition power can be ideally adapted to the gas quality.

Part 1: Prechamber spark plugs

Optimized for high electrical efficiency and a long service life



The prechamber spark plug M18 is installed in the 4th agenitor series as standard.

Prechamber spark plugs are traditionally installed in the 4th series due to the high medium pressure that are perfectly coordinated with the combustion in the main combustion chamber and therefore ensure the highest efficiencies with low exhaust gas emissions. These spark plugs are able to generate a pressure difference to the combustion chamber for the ignition phase with the upstream ignition chamber. A spark plug can ensure the ignition of the operating gas even with a high medium pressure and highly turbulent

combustion. The prechamber enables targeted combustion development and has a positive effect on efficiency.

Development engineers of 2G Drives GmbH – a research and development subsidiary of 2G Energy AG – have enhanced the prechamber spark plugs for use in CHP in conjunction with a spark plug manufacturer. On the one hand, they have succeeded in improving the electrical efficiency whilst maintaining high reliability. On the other hand, the M14 spark plug has been replaced with an M18 version. The larger design enables higher quality workmanship which in turn has a positive impact on the service life of the prechamber spark plug. With its larger surface, the M18 spark plug is able to dissipate the heat produced during ignition and combustion more efficiently over the cylinder head. The cylinder head is in turn water-cooled and feeds the heat on to the cooling system. This reliably prevents overheating and a potential early failure.

Security of supply is top priority

Stadtwerke Witten supplies 700 households with environmentally friendly energy



Six agenitor 406 modules produce 1.5 MW of electricity and more than 1.5 MW of heat in total.



Christian Dresel

“The six agenitor 406 modules have been operating highly efficiently and completely reliably since they were installed three years ago.”

Christian Dresel | Energy Consultant | Stadtwerke Witten

Location:	Witten
Operator:	Stadtwerke Witten GmbH
CHP type:	6 x agenitor 406
Gas type:	Biogas
Electrical output:	1,500 kW
Thermal output:	1,560 kW
Installation:	Turbine house



Stadtwerke Witten operates a natural gas fired combined heat and power plant in the district of Bommern, among others. Old units were replaced with six agenitor 406 modules here three years ago. Provided in

a cascade arrangement, the highly efficient modules produce 1.5 MW of electrical power and 1.56 MW of thermal power in total. The electricity is fed into the public grid and is sufficient for supplying 4,000 households. 700 households in the vicinity of the Bommersfelder Ring and Helene-Lohmann-Schule, the sport centre of TuS Bommern and two supermarkets are supplied with heat. “In addition to environmentally friendly energy generation, security of supply is the top priority of Stadtwerke Witten,” explains Christian Dresel, Energy Consultant of Stadtwerke Witten. “The six agenitor 406 modules have been operating highly efficiently and completely reliably since their installation three years ago.”

Farmers feel in good hands with 2G

Jakob Bauer operates his biogas plant with an agenitor 406



Jakob Bauer

According to Jakob Bauer, there is a justified existence for biogas plants in accordance with the EEG if they are produce energy on demand.

Location: Pleystein
Operator: Jakob Bauer
CHP type: agenitor 406
Gas type: Biogas
Electrical output: 250 kW
Thermal output: 245 kW
Installation: Turbine house



Jakob Bauer is a farmer and operator of the Bartlmühle biogas plant in Pleystein, Bavaria. It is connected to an agenitor 406 which is used to generate around 4 million kW hours of electricity from biogas each year. The heat produced while generating electricity is fed to the fermenter to support the fermentation process and is used in our and the neighbouring company through a local heat network. The electricity is fed into the public grid. "I am convinced

"2G is really concerned about what we need outside."

Jakob Bauer | Operator
 Bartlmühle biogas plant

that 2G is three to four years ahead of other engine manufacturers when it comes to research and development," explains Jakob Bauer. "I am particularly pleased by the fact that 2G is really concerned by what we need outside." Bauer will decide in the next few weeks whether to add another avus 500 in order to achieve more flexibility. He believes that biogas plants only have a justified existence in accordance with EEG if they can produce energy on demand and do exactly that. 2G also feels well taken care of with this decision.

Controlled heat for millions of eels

Agenitor 406 supplies energy for breeding eels in Haren

Location:	Haren
Operator:	Emsland Fischzucht GmbH & Co. KG
CHP type:	agenitor 406
Gas type:	Natural gas
Electrical output:	250 kW
Thermal output:	260 kW
Installation:	Container



Emsland Fischzucht GmbH from Haren (Ems) is one of the leading eel breeding establishments throughout Europe. The company produces around 900 tonnes of eel each year. The entrepreneur from Haren Hermann Bentlage purchases approximately twelve million glass eels every winter which weigh a mere 0.3 grams at two to three years of age. Around half of the eels are fed into the rivers in the spring to replenish the significantly decimated number of these eels.

The other half remains within the company for one to one and a half years. The young eels grow up here in 200 breeding tanks at a constant temperature of 25 degrees Celsius. Emsland Fischzucht generates the required energy itself on site: with an agenitor 406. "The agenitor 406 is the safest and most efficient way for us to supply our operation with energy," explains CEO Hermann Bentlage. The 2G combined heat and power plant from the 4th series is fed with natural gas.



The eels require a constant water temperature of 25 °C for healthy growth.



Hermann Bentlage

"The agenitor 406 is the safest and most efficient way for us to supply our operation with energy."

Hermann Bentlage | CEO
Emsland Fischzucht GmbH & Co. KG

Agricultural machinery manufacturer saves energy

Two AMAZONE production sites were each equipped with an agenitor



Heinrich Buddenberg

The agenitor 408 efficiently supplies the pre-treatment and washing system of the new KTL and powder coating facility with electricity and heat.

“The machine concept of 2G is impressive: Efficiency, reliability, sensible energy use – that suits us perfectly.”

Heinrich Buddenberg | Management
AMAZONEN-Werke H. Dreyer GmbH & Co. KG

Location:	Hasbergen and Hude-Altmoorhausen
Operator:	AMAZONEN-Werke H. Dreyer GmbH & Co. KG
CHP type:	agenitor 306, agenitor 408
Gas type:	Natural gas
Electrical output:	610 kW
Thermal output:	671 kW
Installation:	Sound capsule



AMAZONEN-Werke, founded in 1883, are specialists in fertilizer spreader, seed drills, soil cultivation technology and crop protection sprayers. Resource conservation and environmental protection play a major role in the traditional company. A combined heat and power plant was therefore put into operation at the main factory at the Hasbergen site near Osnabrück back in 2013: an agenitor 306 with electrical power of 250 kW. The plant produces approx. 1.5 million kWh of electricity every year.

The electrical energy generated is all used at the site itself and therefore contributes to self-sufficiency. The heat generated from electricity production is fed to the factory painting facility and used to heat the factory halls. AMAZONEN-Werke cover thirty percent of their heat requirement in this way from their own power plant.

The production site in Hude-Altmoorhausen near Oldenburg was also equipped with a combined heat and power plant in mid-2016. An agenerator 408 makes an important contribution to the self-sufficiency of the entire production location here with electrical power of 360 kW and thermal power of 381 kW. The CHP plant was combined with the new KTL and powder coating facility to generate electricity and heat efficiently for the pre-treatment and washing system. The investment in the new paint shop with CHP was the biggest

in the company history of AMAZONEN-Werke to date.

The plant was set up in the existing turbine house in Hasbergen and in Hude-Altmoorhausen. In order to reduce noise emissions, it was surrounded by a sound capsule which reduces the background noise to 65 dB (A) at a distance of 10 metres.

Both combined heat and power plants make an excellent contribution to climate protection with their high overall efficiency of just under 90 percent. Compared to conventional coal-fired power plants with an overall efficiency of just 35 percent, the use of a CHP plant not only conserves important natural resources, but also significantly curbs the emissions of climate-damaging carbon dioxide.

Flexible operation with strict requirements

CHP enhanced for flexible operation based on primary balancing power

Location:	Stoetze
Operator:	Bioenergie Stoetze GmbH & Co. KG
CHP type:	avus 800b and patruus 370
Gas type:	Biogas
Electrical output:	1,259 kW
Thermal output:	1,306 kW
Installation:	Concrete acoustic enclosure

Bioenergie Stoetze GmbH & Co. KG has been operating a biogas plant in the direct vicinity of Stoetze, a village with the same name, in the north of the Republic for more than ten years. This plant differs substantially from conventional biogas plants: The eleven shareholders – all of them farmers – are doing pioneering work when it comes to flexibility. The plant has been operating highly flexibly for more than two years and has helped to ensure the stability of the

public power grid. “The reason for this was that the electricity grid was weak and the numerous wind power plants caused it to switch off again and again because the grid was too full,” reports CEO Michael Borgard.

The electrical energy is provided by a patruus 370 (370 kW electrical and 431 kW thermal) and avus 800b (889 kW electrical and 875 kW thermal) CHP plant and fed into the public grid. 60 percent of the thermal energy totalling 1,306 kW is fed on to the

in a CHP engine and may result in major engine damage. In order to prevent this, a preheating unit was installed in the gas filter filled with activated carbon. This preheating of the gas filter ensures that the gas is not condensed when entering the filter due to the difference in heat and the activated carbon can filter out the sulfur found in the gas accordingly.

Another measure for the primary balancing power operation was to install the avus



An avus 800b and a patruus 370 are employed in Stötze.

houses in the adjacent village through a local heat network. A buffer tank was also installed to ensure an even heat supply. Both CHP plants are able to curb their output to up to 30 percent. This enables a very flexible operation for providing primary balancing power (PRL) to meet demand. A few additional components were installed to ensure that this happens. The two gas filters have an important role to play. Biogas often contains a relatively high proportion of sulfur which contaminates the components

800b in a concrete acoustic enclosure (45 dB (A) in 10 metres) with its own preheating unit and multileaf dampers. Both measures also ensure the quick start-up of the engine at the lowest temperatures.

2G plants equipped for electricity-oriented mode of operation

2G plants meet the requirements of the electricity balancing market

2G has already pushed the necessary technical developments over the last few years in order to ensure a reliable CHP plant operation with a changing start-stop operation or subject to the partial load requirements of the electricity market. On the one hand, this was achieved by adjusting the mechanics. On the other hand, the required functions were also ensured by developing innovative control and software solutions. In terms of the hardware, the focus was on the use of wear-resistant components for the heavy-duty parts in the gas engine. The regulation of

the gas quality and load range across the widest possible window with a consistent configuration was vital for the design of the gas mixer. In response to the increasing digitalization of the energy market, the modern CHP software from 2G meets the requirements of the electricity balancing market both for the secondary reserve power and the primary reserve power.

A solution for every requirement

New 2G reference book for peripheral equipment and accessories

The worldwide use of 2G CHP plants in different environments involves a number of different requirements. Whether it be tropical or Siberian cold, in the direct vicinity of a hotel or confined inner-city spaces – 2G has a solution for every requirement. Standard components for special cogeneration applications can be found in the new reference book “2G. Additional equipment.” From gas preparation and

special sound-absorbing requirements to heat storage. A wide variety of methods for using the produced energy, for example steam and cold, are also explained.

“2G. Additional equipment.” download
www.2-g.com/en/2g-download



Does the expansion of a CHP plant pay off?

The 2G biogas flex quick check provides a realistic assessment of profitability for potential users of the flexibility premium



Sales manager Alfred Gayer

The flexibility premium in the EEG awards operators of biogas combined heat and power plants that increase the share of flexible electricity generation and are therefore able to meet the requirements of the electricity market with a power-oriented operation. 2G Energy AG offers a simple way of calculating additional CHP plant capacities in relation to flexibility surcharges throughout the EEG period including the tender phase with its calculation module "Biogas-Flex-Quick-Check".

Sales manager Alfred Gayer sees 2G as being in the role of the advisor here: "A certain degree of uncertainty on the market has resulted in the ceiling of total installed power of 1,350 MW that is funded with the flexibility premium being a long way from being achieved. Our Biogas-Flex-Quick-Check immediately makes it clear which investment will be profitable based on a small amount of data." It uses a model example to calculate that total funding of more than 2.1 million euros can be generated by

increasing the previously installed power of e.g. 526 kW by 1,485 kW through the addition of another CHP plant. This can be done on the one hand with the flexibility premium (€ 130 per kW of additional power) and on the other hand during the tender phase with the flexibility surcharge (€ 40 per kW of installed power). Gayer is convinced that the necessary investments for the additional CHP output are secure through funding guaranteed over 10 years from the flexibility premium and the flexibility

"There is still great potential to be able to achieve increased power by operating the biogas CHP plant flexibly."

allowance during the tender phase: "The funding in this example corresponds to 2.36 ct/kWh. The flexibility premium practically finances the additional investment in a new CHP plant and any measures necessary for developing biogas plants." The Biogas-Flex-Quick-Check from 2G is based on the current regulatory framework conditions and is designed to carry out a feasibility analysis both simply and quickly. It does not replace a detailed profitability calculation taking into account the valid legal requirements.

Hands-on technology, networking and valuable feedback from the US market

First sales expert training in St. Augustine, USA, attracted great response



More than 30 participants from the USA, Canada and Mexico took part in the first sales expert training.

A sales expert training course was held for the first time in December 2016 at the US location of St. Augustine to which all American distributors and partners of 2G were invited. The more than 30 participants from throughout the United States as well as Mexico and Canada were given a great insight into the 2G products and services during the two days.

The program also included "Hands-on technology" at the 2G site in St. Augustine, Florida: The participants used this opportunity to visit various CHP plants in ongoing production.

Stefan Liesner, International Business Development Manager of 2G Energy AG, emphasizes the importance of this training for sales success in the USA: "The sale of CHP plants requires both technical and commercial expertise. Due to the huge distances involved in North America,

partners have a very important role to play in the local sales concept. This involves making them fit for success in day-to-day business operations." Liesner also considers the networking factor that occurs during these events to be important: "These types of training courses are not only significant because of their learning effect. The personal talks between us and the partners and among these partners are what gives this event its charm. They get to know one another and share their experiences. We, at 2G, also receive detailed market feedback and can take this into account when it comes to improving our products and services."

2G Italia at the mcTER conference

The mcTER Cogenerazione is a conference with accompanying trade exhibition in Italy which specializes in cogeneration and energy efficiency. Following Milan and Verona, the event was held in Rome at the beginning of April of this year. 2G Italia was represented as a platinum sponsor as in previous years and held several lectures and workshops on the latest developments in CHP technology.

Focus on 2G utility concept and new digital communications platform

Positive talks at E-world in February 2017 in Essen

The E-world energy & water in Essen, Europe's leading trade fair for the energy and water industry, was once again very successful for 2G Energy AG. The focus of the trade fair presence was on the 2G utility concept. This concept involves a cooperation between 2G and regional utilities or energy service providers with the aim of combining energy industry and technical expertise and

adding new CHP locations. "my.2-g.com", a new digital communication platform, which provides 2G partners worldwide for a professional cooperation, was also met with great interest.

Visit us at the trade fair!

The next trade fair dates

May 10-11, 2017	All Energy	Glasgow	Great Britain
June 22, 2017	1. Norddeutscher Biogas-Branchentreff	Rendsburg	Germany
June 26, 2017	mcTER Cogenerazione	Milan	Italy
June 28-29, 2017	inter COGEN 2017	Karlsruhe	Germany
July 05-06, 2017	ADBA	Birmingham	Great Britain
July 07, 2017	Tarmstedter Ausstellung	Tarmstedt	Germany
Aug 18-21, 2017	LandTageNord	Wüstring	Germany
Sept 07-10, 2017	Norla	Rendsburg	Germany
Sept 12-14, 2017	RWM	Birmingham	Great Britain
Sept 14-17, 2017	Mela 2017	Mühlengeez	Germany
Oct 18, 2017	mcTER Cogenerazione	Verona	Italy
Nov 12-18, 2017	Agritechnica	Hanover	Germany
Dec 12-14, 2017	BIOGAS Convention & Trade Fair	Nuremberg	Germany

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