PLANTS
efficient. flexible. sovereign.

COMPONENTS
powerful. proven. in demand.

EXTENSIONS
clever. individual. high-performing.

SERVICE
holistic. biological. technical.

BIOGAS TECHNOLOGY
Technology on demand.
Biogasanlage Triesdorf, Das Bildungszentrum Triesdorf macht sich mit dieser regenerativen Wärmeversorgung zu 100 Prozent unabhängig von fossilen Brennstoffen. Mit dieser Anlage sparen die Landwirtschaftlichen Lehranstalten, der Milchwirtschaftliche Verein und die Neubauten der FH ca. 820.000 m³ Erdgas pro Jahr ein. Die Atmosphäre wird dadurch um rund 1.500 Tonnen Kohlendioxid (CO₂) entlastet. Zusätzlich spart die regenerative Stromerzeugung rund 1.400 Tonnen CO₂ ein.

Clean Energy in Abundance

Whether it's chemical fertilisers, natural gas or heating oil, it's not only agriculture that's beginning to feel the effects of unsustainable energy consumption. That's why renewables are so important in the fight to maintain the environment on behalf of our future generations. Renewables are inexhaustible – we just have to use them!

Did You Know? Renewable energy legislation in Germany

In the early 1990's, the first framework conditions were created in Germany in order to promote the development of renewable energy systems. The introduction of the Erneuerbaren Energien Gesetz (EEG - Renewable Energies Act) in 2000 allowed the development of the highly modernised "Renewable Energy" Industry. Today, approx. 30% of the German electricity consumption is already being produced from renewable energy sources.

Profit with our values!

Our Products, Your Profit

agrKomp has been developing ground breaking biogas systems since the 1990's. To date we've installed over 800 plants with a total production capacity of around 250 MW. It's always been our goal to give agricultural businesses every opportunity to enter the energy market quickly and with the minimum outlay.

Biogas, benefits throughout your business

Installing a biogas system is a win-win! You'll not only profit from incentives, but by exploiting your farm's "by-products" you'll be improving your nutrient balance and ensuring an improved CO₂ balance too ... AND providing heat and power for yourself and, potentially, the National Grid.
international success
More than 800 plants worldwide

With over 800 plants and more than 800 employees worldwide, agrKomp is an international success.

Alongside the main headquarters in Germany, we have our own branch offices and partners in Great Britain, Ireland, France, Switzerland, Denmark, Italy, The Czech Republic, Poland and Slovakia. In addition, there are also projects in Canada, Kenya, Russia and Romania.

local success
18 plants installed

So far we’ve installed 18 plants in the UK with more coming on-stream all the time. For information on arranging a visit to one of our plants see www.agrikomp.co.uk.
Biogas technology:
we know what we’re talking about.
Specialists - from start to finish.

Innovation, Conviction and Courage!

It’s thanks to the holistic and visionary thinking of agriKomp’s founders that the company now stands out as an international leader in Biomass technology. Our love of innovation stretches back to the first mobile biogas plant, known as the Gülleverk, and includes examples of brilliant engineering such as the Paddelgigant agitator. We’re known for our ground-breaking systems, efficient technology and on-going levels of service.

Constant Continuity

All our essential components are designed and manufactured in-house, guaranteeing absolute reliability and consistent quality. Key components, such as the flexible gas store (Biolene®), the paddle agitator (Paddelgigant®) and the robust feeding technology (Vielfraß®) have set international standards with respect to stability, reliability and energy efficiency.

Reliability - that’s what we give, plus stable technology

It may take just months to build a biogas plant but our relationship with you will last for decades. Great service is what you should expect from us, and that’s what we give, stable technology, reliability and continuous development, all aimed at ensuring your long-term profitability.

„If you wish to stay ahead you must be innovative, have reliable and efficient products in your portfolio and also provide a secure service. This requires dedicated people and solid engineering“, says Robert Bugar.

Complete competence – from a single source

... Up front ...
- Research and development of our own systems, in-house manufacture of all essential components,
  - Specifically designed for 100% liquid manure (slurry), energy crops and agricultural residues
  - Each plant individually designed

... Formulation of design and installation basics ...
- Planning to construction
  - Consultation
  - Calculation of profitability
  - Formulation of design and basics
  - Financing / Leasing
  - Planning permission
  - Outline building applications
  - Construction
  - Commissioning

... To completion, and beyond ...
- Comprehensive service including:
  - Technical
  - Plant
  - CHP
  - Electrical
  - Spare parts management
  - Service packages
  - Biological analysis
  - Laboratory service
  - Consultation
  - Laboratory products (additives)
  - Research laboratory

Use of Energy / Extensions
- Heat utilisation concepts, district heating and microgas networks

Added-value services
- Electricity marketing
- Power2Heat

... End to End Service... We are always at your side!

Company history

1991 Legislation allowing the sale of electricity to the German National Grid
2000 Renewable Energy Sources Act
  agriKomp established in Weidenbach (Bavaria)
2001 First biogas plant in Germany
2002 Paddelgigant® and Biolene® introduced
2003 Vielfraß® introduced
2004 agriKomp West established
2005 First biogas plant in Kenya
  In-house biogas laboratory equipped
2006 100th biogas plant built
  Foundations of agriKomp (Bohemia (Czech Republic));
  agriKomp France (France)
  agriKomp Süd established
2007 Quetschprofi® introduced
2008 Innovation: Introduction of Gülleverk® at the Eurotier
2009 First Gülleverk® in operation
  agriKomp receives Innovation Award from Middle Franconia
2010 agriKomp Slovakia (Slovakia), agriKomp Polska (Poland), agriKomp UK (GB and NI) established
2011 agriKomp CSS (Canada) established
  Innovation: Octaform® introduced
  Best Company in renewable energies: 6th place (dgf)
2012 Commissioning of first compact slurry plant
2013 First biogas plant in Canada
  Participation in the SCHNELL Motoren AG
  Benchmark Best Company in renewable energies: 3rd place (dgf)
2014 Innovation: Introduction of agriSelect at the Eurotier
2015 Introduction of gas upgrading system
the agriKomp system: sophisticated plant for successful businesses

A system for every requirement

With more than 20 years’ experience in the manufacture of bio-gas plants agriKomp can offer plant and systems to meet every need and requirement. Whether it be slurry, manure, agricultural residues, grass or silage our robust engineering and the wide range of components and plant we offer will give you a free hand when deciding the way forward.

Legal requirements, supplying identical

agriKomp is ISO 9001:2008 certified, and all our products carry the “CE” Label as a benchmarks of quality and safety. It’s not just a matter of meeting important safety guidelines and legal requirements. Supplying identical plants with identical components allows us to supply the highest quality materials and installation. It also guarantees the reliable long-term supply of spare parts and service experience.

Optimal plant configuration to meet the demands of your location and business needs

Our consultants are experienced and know their business. They will work with you to decide the optimal plant configuration for your business. They’ll take into account your specific operational circumstances and parameters, taking into consideration the area planted, input substances, business planning and your planned Return on Investment.

Designed for you

With over 800 different completed projects behind us we’re able to offer any number of different plant configurations tailored specifically to meet your unique operational requirements. All of them highly profitable!

Specifically for livestock

Why not profit from your unused potential? Using solid and liquid farm manure makes the operation of a bio-gas plant a secure investment and represents a great way to meet any legal requirements for emissions. If you’re building new cowsheds now would be a good time to include bio-gas in your planning, as this will give you a significantly more profitable and future-proof solution with less additional outlay.

Utilise excess heat and benefit from the RHI.

There are additional benefits and income possible by making use of the excess heat generated by the plant. For example a 500kWe plant would have approximately 300kW excess heat available, this heat could be used in a wide range of applications which could add another income stream including, pasteurisation, digestate, crop and wood chip drying, local or district heating to buildings, greenhouses or livestock housing and in addition possibly qualify for the renewable heat incentive (subject to meeting sustainability criteria).

agriSelect

75 kW, from just 200 LU* and up!

For 100% slurry, or slurry/manure and solids: agriSelect is our basic model, offering a large selection of additional packages to meet the requirements of your business – giving you a perfectly designed and executed system with the option of adding your own construction input. An agriSelect plant can be constructed within just a few weeks thanks to our pre-fabricated assemblies, turnkey technical container, our unique Octaform ® vessel construction system and the deployment of an experienced on-site foreman working to guarantee the rapid construction of your plant.

Gülleverk® and agriSelect – pretty hot stuff!!

Our “little’uns” produce a lot of heat! Their efficient energy usage and a sophisticated heat use system will provide enough valuable heat for you to heat your farm buildings constantly...free-of-charge!

*LU = livestock unit based on: slurry

Custom plant, 500 kW, NI, Co.Down

Custom plant, 500 kW, UK, Shropshire

Custom plant, 75 - 100kWel, Our innovation on the Eurotier 2014

AWARD-WINNING:

The Gülleverk® received the Innovation Award at the 2011 SuisseTier Fair.

You will find more information on the internet www.agrikomp.co.uk
We’re specialists!

Our experience is that the processing of manure, grass, agricultural residues and silage demands specialist engineering. We use our experience to develop components that meet and surpass these demands and we then match these together to create our unique biogas systems:

Solid, robust, efficient and reliable - they guarantee high disposability.

Tried, tested and continuously innovative!

We develop and manufacture all essential components ourselves. They’re all manufactured to the same high quality and conform to the relevant international CE and safety standards. Because we’re always looking to the future, developing and innovating as we go, you and your plant will always be on the cutting edge!

Paddelgigant® – the powerful agitator

agriKomp’s agitator technology was developed by us especially for substances with a high fibre content such as solid manure, grass and silage. The four tilted paddles operate in different directions resulting in any coarse fibered material being mixed to the correct consistency for the digester. This is vital to give the optimum gas yield and to avoid sink-and-float layering.

Vielfraß® – the reliable solid material feeder

You need to be free to choose your feed! And this is especially true when feeding your biogas plant. To protect against aggressive substrates all Vielfraß® parts that may be subject to corrosion are made from V2A stainless steel.

Unique to the market is the large variety of choice in the Vielfraß® family. Basic units are available with a capacity of 7 – 13 m³, separation sumps from 25 to 40 m³, with milling attachments for manure bedding as well as an ascending worm screw allowing a height of 4 to 6 m to feed a standing digester. We have a product to satisfy every requirement.

Cooker – efficient substrate digestion

High fibre content in grass and manure are “hard to swallow” for the bacteria. It is recommended to install a thermal substrate processor for the use of biogas additives by continuous use of substrates that are difficult to digest. The substrate is heated in our “Cooker” on its way from the digester to the post-digester. The raw fibre contents that have been mechanically so separated can be better exploited by the bacteria. The result, dependent on the material composition, is a 5% higher gas yield.

Biolene® – the flexible gas store

Biolene® is made from high quality EPDM rubber. The material is characterised by longevity, an extremely good UV and ozone stability, low methane losses and high elasticity. It adapts to the volume of gas stored and is thus ideal for modern, flexible electricity generation.

Quetschprofi® – modern separation technology

When separating digestion residues with a high proportion of solid manure and grass, conventional separation engineering reaches its limits. To overcome this we’ve developed an economical and robust separator for digestion residues and slurry. Fine sieve-drums and a continuously controlled pneumatic cylinder react flexibly depending on fluctuations in the dry matter content, providing high separation levels and reliable, continuous separation.

CHP units

The ability to convert biogas to electricity efficiently is obviously vital for the profitability of the plant. We only work with well-known manufacturers who offer robust, durable and reliable pilot injection and gas motors proven to pay dividends for our customers.
Clear vision: good thinking and clever, targeted solutions

Keeping ahead: Thinking laterally!

As a successful businessman you’re probably already planning ahead for tomorrow by investing today, and if you are making capital investments is going to be in capital goods, you need to be sure you have a reliable partner able to keep in step with your development plans. That agriKomp! Work with us and you’ll always be ahead of the game:

Technically:

With our flow of technical updates you’ll always be fulfilling every legal requirement placed on you. You’ll be improving your operator margins, increasing the diversity of the materials you can use and upping your volumes. You’ll also be able to improve the exploitation of the substrates you use, and its potential, by incorporating additional supplementary heating.

Repowering – not simply exchanging!

Using our up-to-date technology you’ll always be ahead of the game, increasing your profitability and at the same time adding to the safety of your biogas plant. Bigger is usually better, but we would always recommend that you ask our consultants to draw up a technical and biological feasibility study for you before making any decision. Depending on their analysis, they will suggest various measures for extending your biogas plant. Working with agriKomp you can relax knowing that our advice will be comprehensive and dependable...and of course we’ll be happy to implement any decisions you subsequently make!

Electricity on demand: safe, storable, flexible

Biogas can store energy

Electricity from biogas can be generated and fed into the grid when wanted. It’s this ability to store and then produce electricity on demand that are the unique selling points for biogas in the renewable energy mix, perfectly complementing perfectly the more volatile properties of sun and wind energy. Together, the three are a dream team!

Biogas: flexible electricity at all times

The flexibility offered by your biogas plant allows you to take on an important role as a supplier of renewable energy. This flexibility will allow you to react to the fluctuating demands for electricity production in response to the unpredictability of sun and wind.

Biogas – an excellent system service provider!

There will always be long-term and mid-term fluctuations in electrical supply and demand, for instance high demand in the evening and low requirement at night - or when wind and sun generate too much, or too little, energy.

The flexibility of biogas generation can even out short-term fluctuations.

The Added value of flexibility

It’s the flexibility of biogas energy production that helps it reap greater financial rewards, achieving significantly higher profits in a balanced energy market. agriKomp has a great deal of experience in the flexible biogas production sector and can offer the right products and services to maximize your return on investment.
Economy – the most suitable package at the best price

Working in partnership with you we’ll work through your circumstances and requirements to create a bespoke plant specification and proposal guaranteed to be economically successful.

We won’t just base our calculations on a static single year but take the complete feed-in tariff period into consideration, giving you an accurate calculation of your proposed profit over the period. This will support your decision-making, equip you when seeking finance and enable you to plan your financial future.

Financing – we can help

Depending on your personal circumstances we can use our extensive banking and investor network to help you identify a financing option that works for you. There should be a number of financing options available, often without the need for security or personal investment.

We would also be happy to advise you should you prefer to pursue more classic financing through your own bank.

Your partner moving forward

We’ll support you:

- When choosing your plant’s location
- With drawing up preliminary drafts and developing a tailor-made plant design
- Assisting you with all the necessary expert reports required for planning
- When dealing with the authorities, co-ordinating with experts or if questions concerning energy supply arise.

We’ll be there:

- Our employees both in-house and on site will support you during construction
- Our team of experienced process engineering, motor technology and process biology specialists will be with you during commissioning and start-up.
- And you’ll also be given comprehensive documentation covering the workings of your biogas plant.

The complete package: thought through and unique to you.

Competent advice from our specialists

Tailor-made, well thought-out concepts

Individual and careful planning
Service as it should be: comprehensive, thorough, and working for you

Single point service – you can rely on

Your biogas plant has an expected life of at least 20 years, so it’s clear that having a reliable service partner is vital in ensuring constantly high operating results. In the long term, high-quality engineering, reliable service and continuous updates are what will determine the profitability of your biogas plant. agriKomp considers updates to be both technical and biological innovations and improvements, and the foundations stones for further development and consolidation, adding to our know-how and to the profitability of all our partners.

Standardised technology – guaranteed supplies!

Our engineering places an emphasis on solid quality and long life. We’ve concentrated on standardisation in the design of our plants and components to ensure a reliable and long-term spare parts supply and our comprehensive centrally located materials depot provides a reliable spare parts supply – from the smallest screw up to a complete CHP station!

A phone call away – short reaction times

In an emergency time is of essence! No matter where you are our service staff are able to make a remote analysis of your problem and more often than not remedy the fault from their desks.

Our teams regularly participate in seminars and training programmes, our special requirement being for our specialists to understand all the processes of the operation of a biogas plant, not just their own area of expertise.

Thoroughly trained specialists

Many of our staff have been brought up on farms, or form part of the farming community. As such they fully support renewable energy and the opportunities that these forms of energy bring to rural regions.

Our teams regularly participate in seminars and training programmes, our special requirement being for our specialists to understand all the processes of the operation of a biogas plant, not just their own area of expertise.

Our specialists – always at your side

Mechatronics, construction, electrical, mechanical and heating engineers, farmers, process engineers, agricultural engineers, biologists, agricultural machine technicians, all at your disposal:

- **CHP-Service**
  Service and emergencies, via remote maintenance or on location

- **Plant service**
  Biological and technical advice and commissioning

- **Electrical service**
  Advice and service associated with electro-technology and plant control

- **Laboratory service**
  Anaerobic digestion testing laboratory to determine residual gas and substrate potential, analysis laboratory for controlling digester biology

Quality control – certified technology and personnel:

agriKomp is ISO 9001:2008 certified and CE compliant, both are standards we meet voluntarily to ensure continuous improvement of the high quality of our engineering as well as the skills of our employees.

Currently:
- ISO Certification: August 2014
- Laboratory round robin test: May 2014
Reference plants: purposefully planned, individually built – optimally solved!

Scotland, Hawick
Model: Custom plant
Commissioned: 2014
Installed capacity: 200kW
Feedstock: Cattle slurry, muck, grass, whole crop
Components: 1x Vielfrass® 10m³
Specialties: Wood chip dryer

Scotland, Stranraer
Model: Custom plant
Commissioned: 2014
Installed capacity: 250kW
Feedstock: Cattle slurry, grass, maize silage
Components: 1x Vielfrass FA® 40m³
Specialties: Grass only plant

Northern Ireland, Keady
Model: Custom plant
Commissioned: 2014
Installed capacity: 500kW
Feedstock: Cattle slurry, grass
Components: 1x Vielfrass® 40m³
Specialties: Grass only plant

Northern Ireland, Toomebridge
Model: Custom plant
Commissioned: 2014
Installed capacity: 500kW
Feedstock: Cattle slurry, grass silage, whole crop
Components: 1x Vielfrass Top® 40m³
Specialties: Grass only plant

England, Church Stretton
Model: Custom plant
Commissioned: 2014
Installed capacity: 500kW
Feedstock: Cattle slurry, maize silage, whole crop, sugar beet
Components: 1x Vielfrass® 40m³
Specialties: Grass only plant

England, Shrewsbury
Model: Custom plant
Commissioned: 2013
Installed capacity: 630kW
Feedstock: Cattle slurry, maize silage, sugar beet, chicken muck
Components: 1x Vielfrass Top® 40m³
Specialties: Grass only plant