

Designing the future

New energy
in safe hands





Renewable
energy – essential
for the future

Renewable energy is ...

- ... a general consensus in the European Union and the declared objective of energy policy: The EU Directive specifies that 20% of final energy consumption is to be covered by renewable energy sources in countries of the European Union by the year 2020. In Germany, 80% of electricity requirements are to be covered by renewable energies by 2050.
- ... practiced climate protection. Using more renewable energy means less carbon dioxide in the atmosphere which is responsible for global warming.
- ... necessary in order to achieve independence from energy imports from politically unstable regions over the longer term and to create stable scenarios for the future.
- ... economically reasonable. Renewable energies are the technology of the future. They strengthen our business location, create new jobs, and open up new perspectives.
- ... safe. Without any residual risk.

A close-up photograph of a green leaf, showing the intricate network of veins. The veins are a lighter green color, contrasting with the darker green of the leaf's surface. The veins form a complex, branching pattern that fills the entire frame. The lighting is bright, highlighting the texture and structure of the leaf. A semi-transparent green box is overlaid on the right side of the image, containing white text.

With new energy:
Creating sustainable
values, securing
the future

Foreword

Energy is not manufactured: It is harnessed. Just how efficiently and environmental-friendly we do this is up to us. At present, we can still generate energy by burning our scarce fossil resources. The use of regenerative energies, by contrast, is a sustainable and clean solution for our future.

Renewable energies recorded enormously high growth rates in recent years, in particular in Germany, but also in other European countries. In Germany, renewable energies accounted for more than 17% of electricity generation and almost 10% of the total energy supply in 2010.

It has long been clear: The global market for wind energy, biomass, photovoltaics, hydro-power, solar thermal energy, and geothermal energy will grow continuously. Now that the technology for these forms of energy generation has become mature, the issue today is to compete with traditional energy sources.

Without the expansion of renewable energies it will not be possible to maintain our standard of living. Fossil fuels are becoming scarcer and consequently more expensive. Moreover, traditional forms of energy generation burden the global climate balance, and this poses a threat to our existence and to that of future generations.

RENERCO established itself on the energy market at an early stage due to its strategic approach and carefully developed concept and aims at making a contribution to securing prosperity and preserving the foundations of a world in which it is worth living.

Our particular strength lies in the wind energy, photovoltaics, geothermal energy and bioenergy segments. Our success is based on three pillars.

The first of these is project development through to turnkey construction of plants.

The second is reliable technical and commercial operations management.

The third is our consulting competency, which is supported by in-depth experience and knowledge acquired from the various projects already realised.

RENERCO uses its competency to develop projects and constructs plants that perform reliably and economically. We create lasting values through profitable and sustainable investments. RENERCO contributes to making the energy turnaround possible.



Matthias Taft



Klaus Kaiser

Business Segments

RENERCO focuses on four renewable energy segments:

Wind energy, photovoltaics, geothermal energy and bioenergy. From site selection, planning, and turnkey construction to the management of plant operations, we cover the entire range of services associated with a project. Moreover, we provide technical consulting services in all business segments and arrange value-adding project financing.

The company's regional focus is on the home market, Germany, and on the rest of Europe.



Wind Energy

Today, at selected sites wind energy can already compete with conventional electricity generation.

RENERCO participates in the development, management and operation of numerous wind farms in Germany and the rest of Europe with about 500 wind turbines and an installed capacity of approximately 700 megawatts.

Two decades of experience and a realised and supervised portfolio of plants involving all major manufacturers and turbine types are made available as a knowledge base for all development stages of a project.

**RENERCO Wind Energy offers:
Project Development – Turnkey
Construction – Operations Management –
Technical Consulting**

Photovoltaics

The energy supplied by the sun exceeds our energy requirements many times over. Photovoltaics most strongly epitomises the vision of using an inexhaustible energy source.

For almost a decade now, RENERCO has been active in project development and in the construction of large solar installations in Germany and the rest of Europe.

Our strength: We construct ground-mounted photovoltaic plants in the megawatt category on a turnkey basis; the entire project development, including planning and implementation, is carried out from a single source. Your point of contact is always RENERCO.

In addition to ground-mounted installations, we also offer concepts for roof-mounted installations. Here, we focus on establishing installation pools with an installed capacity of 1 MWp or more.

**RENERCO Photovoltaics offers:
Project Development – Systems
Integration – Operations Management –
Technical Consulting**



Four business fields.
Four-fold competence
and professionalism
throughout all phases
of a project. All out of
one hand.

Geothermal Energy

The advantage of geothermal energy is its permanent availability, irrespective of seasonal or weather-related fluctuations. Geothermal energy thus plays an important role in the provision of base load energy.

Since 2004, RENERCO has worked on the development of geothermal projects and is a joint venture partner of Süddeutsche Geothermie-Projekte GmbH & Co. KG (SGG), which was established in 2007. SSG carries out geothermal projects in the Upper Bavarian Molasse Basin. With the two doublet drilling projects that were successfully realised at Dürrenhaar and Kirchstockach, RENERCO contributes substantially to the development of a regenerative energy source that is still in its infancy in Germany, and thus has great potential.

A secure portfolio of sites in Southern Bavaria will enable us to implement further projects in the coming years.

**RENERCO Geothermal Energy offers:
Project Development – Technical Consulting**

Bioenergy

The utilisation of renewable raw materials and, in particular, organic waste will continue to gain importance. Here, the challenge lies in the professional handling of raw materials sourcing.

The treatment and feeding of biogas into the natural gas grid and the decentral use of combined heat and power plants are promising models offering good prospects, especially in rural areas.

RENERCO has acquired extensive experience in the implementation of heat and power stations, waste treatment plants, and biomass power plants. Our clients can utilize the extensive know-how we have acquired in the bioenergy sector.

**RENERCO Bioenergy offers:
Technical Consulting**

Site Development

RENERCO offers end-to-end project development, from “green field” through to the “fully developed” stage. In doing so, we rely on our experienced staff and partners. Professional project planning in collaboration with municipalities, land owners, and authorities enables us to make optimum use of available land areas. Site assessment, land securement, and providing the necessary permits are among the core competencies of the RENERCO team.

RENERCO takes on projects at various development stages and supports these projects through to commissioning – and beyond.

We act as a partner for local project developers who are looking for support on the long road from the initial idea to project realisation – be it financially or in terms of planning. We look forward to your project!

Turnkey Construction

RENERCO is your point of contact for the turnkey construction of renewable energy plants. Our project managers ensure the successful realisation of projects once they have reached the fully developed stage. Integrated implementation planning guarantees optimum adaptation to the specific site conditions and to technical and economic requirements.

The focus is on the procurement of components and on creating the necessary infrastructure, taking all mechanical and electrical requirements into account.

From the initial planning phase through to commissioning, we set the highest standards for scheduling and cost management. Complete technical documentation is an integral element of our quality assurance process.

Planning, development,
construction: Benefit
from more than two
decades of experience
at home and abroad



Operations Management

The RENERCO operations management takes care of all technical and commercial matters pertaining to your plants and, in so doing, guarantees their high efficiency – a prerequisite for a good return on investments.

We monitor operational readiness, maintenance and repair activities, carry out regular inspections, and ensure contract and insurance management.

Commercial operations management is responsible for project accounting and supports the project company's management in preparing financial statements, in financial statements audits and in all tax matters.

We have been providing services to project companies since 1994. Meanwhile, we manage a large number of projects for banks, international investment companies, and renowned investment trusts with an installed capacity of more than 500 MW in the wind energy and photovoltaics segments – with promising growth rates.

Technical Consulting

In recent years, numerous clients from the most varied business sectors have come to appreciate our competency and rely on our expertise. These clients include German and international banks, reputable investment and leasing companies as well as institutional investors. To date, RENERCO has consulted or is still consulting over 75 projects involving a total investment volume of more than three billion Euros.

Our services in the project development and investment phase range from technical analyses and support through to the final technical and economic evaluation of a project (due diligence).

During the construction phase, RENERCO ensures technical controlling and performs or coordinates technical tests and final acceptances.

During the operations phase, the services we offer include the technical and business analyses of operating results, strategies aimed at a sustained increase in investment returns as well as reliable consultancy and assistance in the processing of any possible cases of defects.



Independent technical
advice and plant
management –
Valuable expertise

Selected References

Wind farm La Benâte	Output: 12 MW
Charente-Maritime, France	Turbines: 6 Enercon E82
	Commissioned: 2010
	Capital expenditure: 22 m €

RENERCO's contribution:	<ul style="list-style-type: none"> - Project development - Turnkey construction - Operations management
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Dublett drilling, Kirchstockach	Drilling depth: approx. 4,000 m
Bavaria, Germany	Planned elec. output: approx. 5.5 MW
	Drilling execution: 2009/2010
	Commissioning power plant: 2012
	Temperature: > 135°C
	Capacity: >100 l/s

RENERCO's contribution:	- Project development
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Photovoltaic plant Leiwen	Output: 3.6 MWp
Rhineland-palatinate, Germany	Modules: First Solar, Thin-film
	Commissioned: 2009
	Capital expenditure: 11 m €

RENERCO's contribution:	<ul style="list-style-type: none"> - Project development - Turnkey construction - Operations management
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Roof-top plant "SunnyM"	Output: 0.3 MWp
Bavaria, Germany	Modules: Sharp monocrystalline/amorphous-microcrystalline, Solon polycrystalline
	Commissioned: 2006
	Capital expenditure: 1.3 m €

RENERCO's contribution:	- Electricity generation
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Biogas Schraden	Year: 2005
Brandenburg/Saxony-Anhalt, Germany	

RENERCO's contribution:	- Due diligence of a decentral ethanol plant
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Photovoltaic plant Landsberg	Output: 1.1 MWp
Bavaria, Germany	Modules: Yingli, polycrystalline
	Commissioned: 2010
	Capital expenditure: 2.6 m €
RENERCO's contribution:	- Turnkey construction



Wind farm Speckberg	Output: 28 MW
Saxony-Anhalt, Germany	Turbines: 5 Repower MM82, 2 Enercon E70, 7 Enercon E82
	Commissioned: 2007–2009
	Capital Expenditure: 48 m €
RENERCO's contribution:	- Project development - Turnkey construction - Operations management - Electricity generation



Dublett drilling Dürrnhaar	Drilling depth: approx. 4,000 m
Bavaria, Germany	Planned elec. output: approx. 5.5 MW
	Drilling execution: 2009
	Commissioning power plant: 2012
	Temperature: > 135°C
	Capacity: >100 l/s
RENERCO's contribution:	- Project development



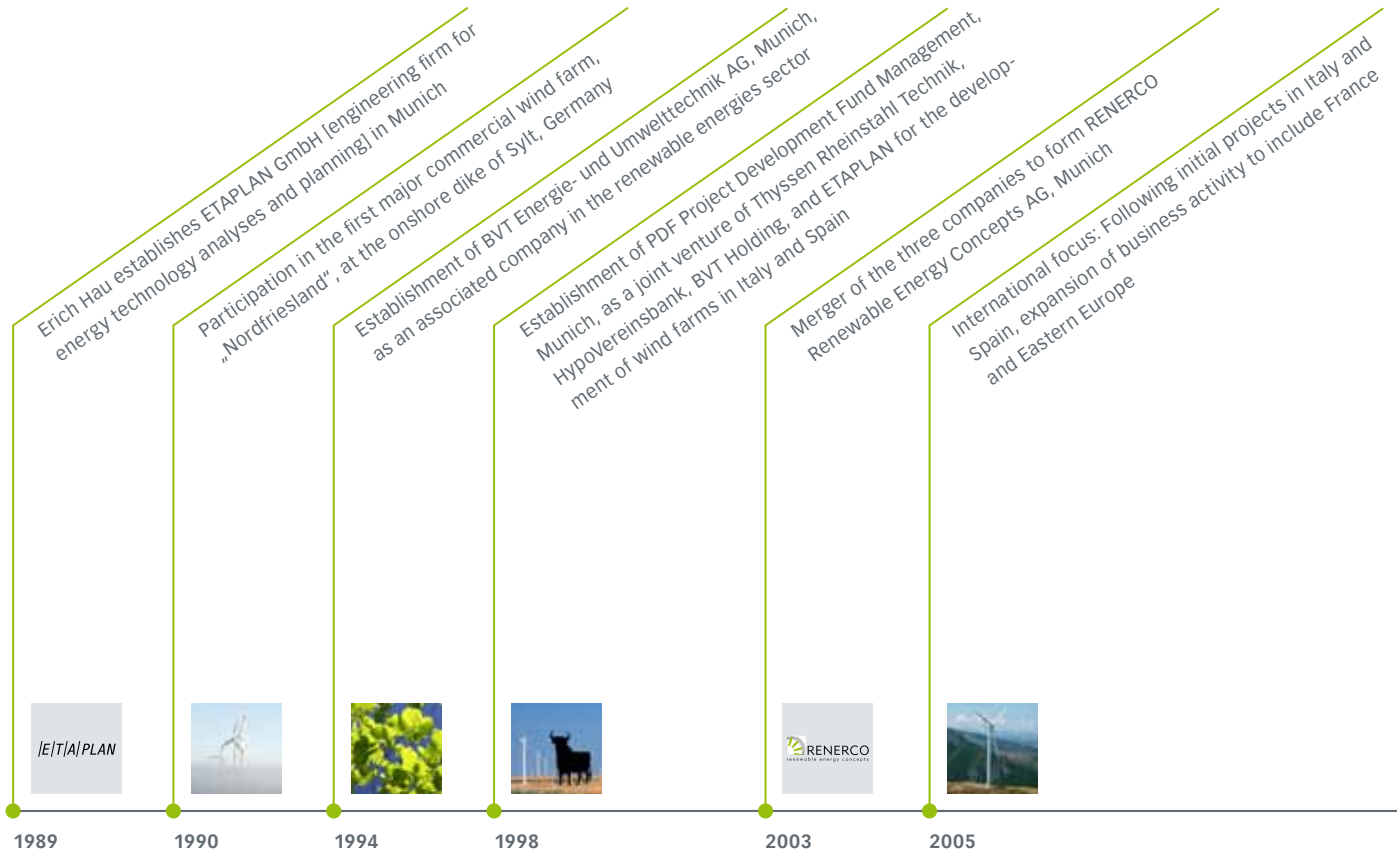
Biogas Alteno	Year: 2006
Brandenburg, Germany	
RENERCO's contribution:	- Due diligence of a decentral ethanol plant

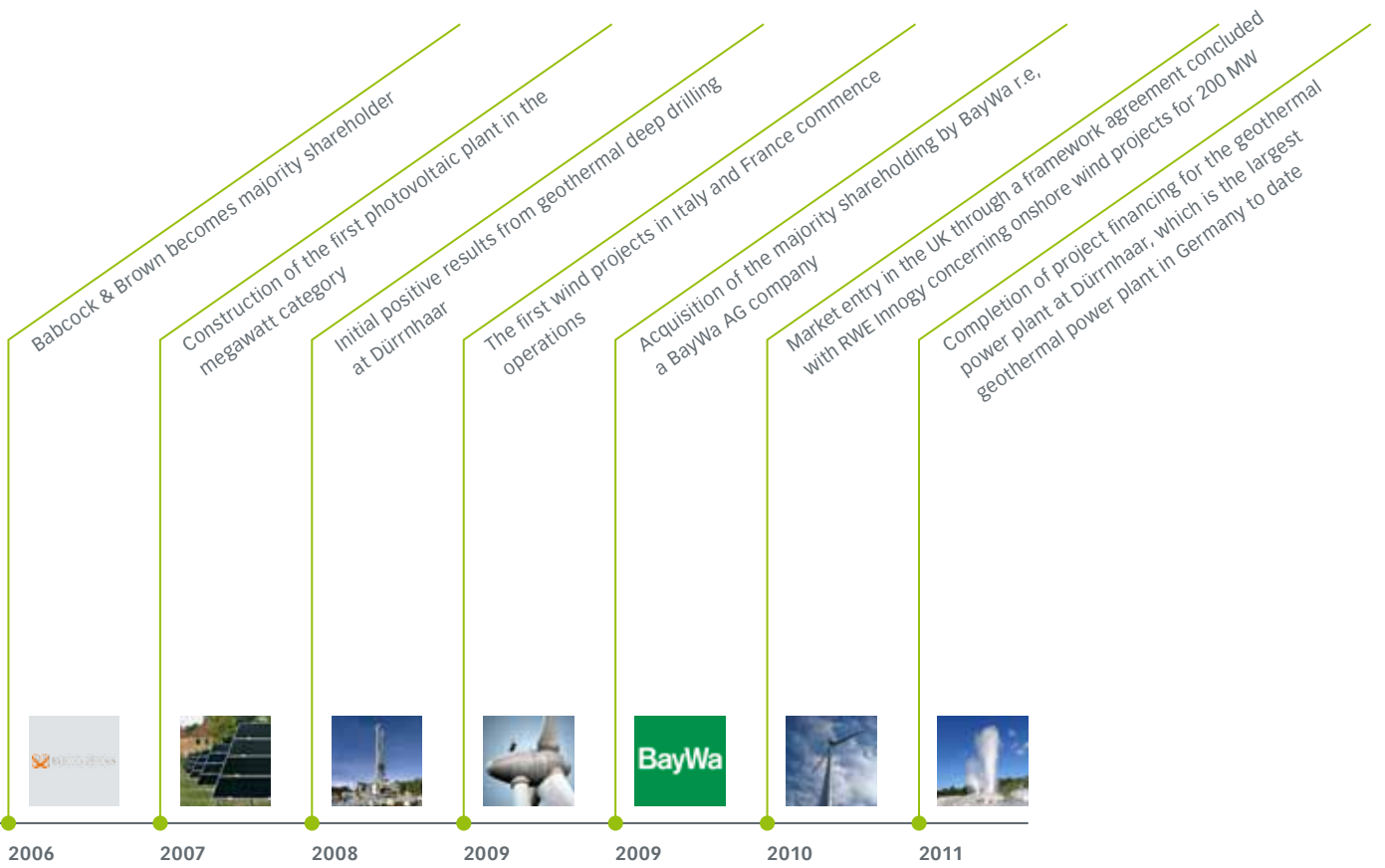


Windpark La Muela	Output: 99 MW
Aragon, Spain	Turbines: 132 NEG Micon NM 750
	Commissioned: 2003
	Capital expenditure: 107 m €
RENERCO's contribution:	- Project development - Technical consulting - Electricity generation

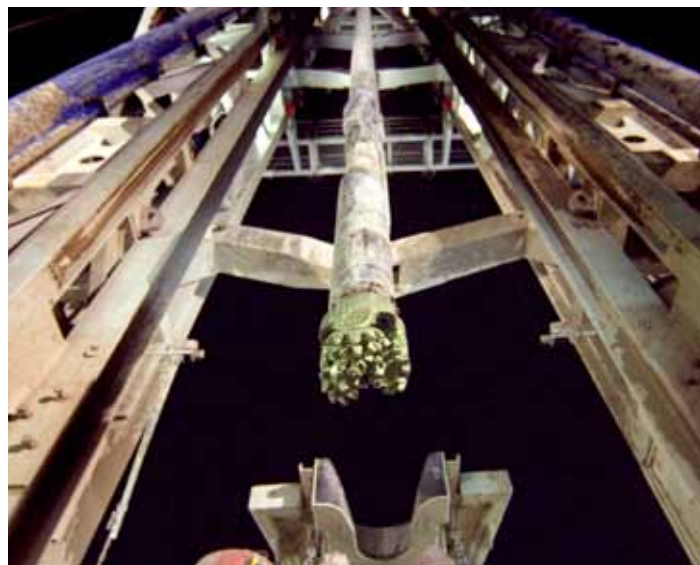


Milestones





RENERCO pools know-how gained over more than two decades. A number of milestones mark the foundation and expansion of our Company.



Our Company / Management

Since 2009, BayWa r.e GmbH has been the majority shareholder of RENERCO. The remaining shares are publicly held. Our affiliation with the BayWa Group, provides us with access to an international network. With the help of BayWa's financial power we can grow organically in all business segments, we can strengthen our market position through targeted acquisitions and further drive forward the expansion of renewable energies.

Assisted by fellow subsidiaries and under the general coverage of the BayWa r.e Group we use synergy effects, such as in the development of biogas power plants or in the trade with photovoltaic modules.

Management Board

Matthias Taft (Spokesman),
Dipl.-Ing., Dipl.-Wirt.-Ing. (Industrial Engineer),
responsible for project development,
finances, investor relations and
strategic business planning

Klaus Kaiser,
Elektrotechniker (Electrical Engineer), MBA,
responsible for services,
controlling/risk management and
human resources

Supervisory Board

Roland Schuler (Chairman),
member of the BayWa AG Management Board,
Munich

Martin Rey (Vice Chairman),
Managing Director of Babcock & Brown GmbH,
Munich

Klaus Josef Lutz,
Chairman of the BayWa AG Management Board,
Munich

Matthias Taft and Klaus Kaiser



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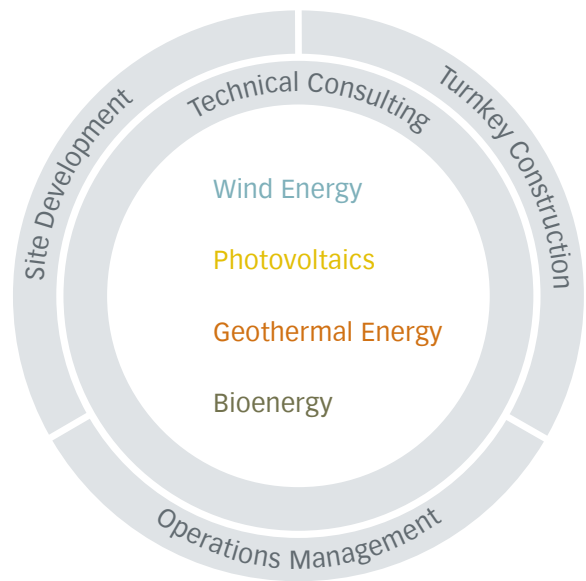
Photography: Anette Linnea Rasmussen/Fotolia.de



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We advise, develop, construct.
Competent and reliable.
With new energy.
Efficient, safe, sustainable.



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