

## **Biogas Plant Markets boom Worldwide in Municipalities, Industry and Agriculture. Profit potential high**

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*The worldmarket is about 2 billion euro in 2006 and expected to increase over 25 billion euro by 2020. But the competition is growing fast too. The key is the knowledge in biotechnology, molecular science, nano-bio-it convergence. (helmut kaiser)*

Helmut Kaiser Consultancy released a new study about the markets for biogas plants worldwide.

The worldmarkets for Biogas and Biogas Plants increase since some years with 20 to 30 percent depending on the country. Germany as a technology leader reached in 2006 about 700 million euro with 400 companies, 100 companies offering the whole value chain, the export is between 10 and 15 percent. Only 2006 are 900 plants build and reach about 3.600 plants in total. It is expected a market size of 7.5 billion euro by 2020 for plants, 30 percent export and 85 000 jobs in germany only. The worldmarket is about 2 billion euro in 2006 and expected over 25 billion by 2020. But the competition is growing too, worldwide. USA and China show a much greater potential as germany and europe. Many plants are low tech and easy to reproduce and design. The key is the knowledge in biotechnology, molecular science and optimization in the future. Biogas is part of renewable energies ( <http://www.hkc22.com/renewableenergy.html> ) worldwide.

The total energy mix of the future will be more regenerative and sustainable. The generation and storage of renewable energy will be the fastest growing sector in energy market for next 20 years. The market volume of renewable energy worldwide will increase from US\$ 95.8 billion in 2007 to US\$ 124.4 billion in 2010 and reach US\$ 198.1 billion in 2015. These figures and developments are based on the whole value chain.

Biogas power plants are a combination of anaerobic digestion systems with associated electricity generators such as gas turbines or gas engines. The electricity they produce is classified as renewable or green energy and if sold into the national grid attract subsidies.

In the last 20 years, biogas utilisation been successful in wastewater treatment plants, industrial processing applications, landfill and the agricultural sector.

The future increase use of biogas is a strong goal in most countries, not only because is it a renewable energy source but it will help to reduce greenhouse gas emissions, water pollution and soil degradation and last not least it will change agriculture sectors in many countries worldwide to produce partly energy.

This study is the first research worldwide for biogas plants in 50 countries with the potentials and developments to 2030, with the technologies and competition worldwide.

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