



## Technologies for the future: Pumps + Systems for Enhanced Sustainability.

**The objective:**  
**Maximum performance.**  
**Efficient use of resources.**  
**Minimum costs.**

The VDMA Pumps + Systems Association is part of the **BLUECOMPETENCE** initiative. Our members offer integrated solutions which provide first-class plant availability at the same time as being energy and resource-efficient.

### Innovative in performance

Pumps must meet multi-faceted demands in the most varied of applications. Innovative approaches are demanded if the pump is to cope with the particular application e.g. to optimise industrial processes or to improve the quality of life.

### Efficient in use

Faced with resources that are in increasingly short supply, new solutions are needed today for the efficient use of energy. The Association's companies are already breaking new ground in the use of materials, energy and resources.

### Good for the bottom line

Optimised energy efficiency and systematic process-optimisation also generate financial benefits for companies. Pumps + Systems make a major contribution to this.

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## Innovative, efficient, cost-effective: Achieving sustainable solutions with Pumps + Systems.



# BLUeCOMPETENCE: The sustainability initiative of the VDMA.

Engineering a better world: making our world more sustainable with innovative machines and equipment.

Protecting the environment with innovative technologies, conserving our resources, improving our quality of life and producing more efficiently: These are the objectives of BLUeCOMPETENCE, the sustainability initiative of the VDMA.

For advanced machines, equipment and production processes make sustainability possible worldwide. The participating companies are thus pooling their expertise to make a key contribution to tackling economic, environmental and social challenges.

BLUeCOMPETENCE is the international trademark for sustainable solutions in the field of machinery and equipment – across the entire spectrum of industrial applications.

## Impressive all-round – in the specific application.

**The way: Customised configuration to suit the applications, pump liquids and specific requirements.**

If the pump is to operate safely, efficiently and sustainably, it must be designed for the specific application. Understanding the processes and the pump liquids to be conveyed in the future area of operations is vital at the design stage.



### For improved safety and quality of life

Pumps are an essential component in many areas of our lives. Whether in providing us with the basic essentials such as clean water or during the manufacture of foods to high standards of hygiene. And also in countless industrial processes and even in medicine, for example in dialysis machines. Pumps are key contributors to the process.



### For increased efficiency and reduced emissions

Pump manufacturers are active in the quest for sustainability – both in production and in their products. Responsible use of resources, the recyclability of materials incorporated into their pumps or the use of innovative MSR technology for system optimisation are examples. And it is in the energy-related optimisation of entire pump systems that the greatest potential savings are expected. Steps taken to enhance efficiency also counteract climate change.



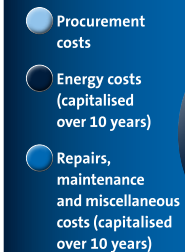
### For reduced life-cycle costs

Operating costs are closely scrutinised when profitability is under examination; energy is the prime cost factors in this calculation. The use of modern pump systems can cut energy costs by up to 30% compared with older technologies. And there is more to it than this – these savings contribute to maximising the return on capital.

### Save costs – conserve the environment

Investments in energy-efficient pumps + systems pay off. With short pay-back periods of normally between two and three years, energy-efficient pumps are attractive for companies. And a 10 year working life of a pump system generates a return on investment of between 30 and 50%.

#### Example of cost distribution over the life-cycle of pump systems conveying water



Source: "Energy-efficient Systems in Trade and Industry" (2004-2007)

