

The potential to make products more energy efficient is still huge, the same counts for related environmental and economic benefits. The cheapest energy is the energy not consumed. Zühlke helps you analyse and optimise your products, and implement the changes in reality.

Consulting **Development** Integration

## Making more efficient use of energy



### Calculations and simulations

We carry out advanced calculations and simulations in the field of thermodynamics, mechanics, fluid mechanics, electronics and systems technology. These calculations form the basis for the ultimate component design.

### System integration

One of our strengths is the integration of sub-components into a system. Our overall systems perspective and our expertise in the various disciplines forms the basis for optimally integrated products.

Zühlke supports customers all the way through from design to the series production stage.

You benefit from our experience gained during numerous projects in the field of product and software development.

### Systematically lowering energy consumption

The great challenge today is to lower the energy consumption of devices, buildings and vehicles. Zühlke helps you to optimise your products or to realise your new product idea. We work in accordance to clearly structured processes that contain the following steps:

#### Energy analysis (current situation and potential)

The energy analysis shows the consumption of your existing product or product ideas using the ABC analysis. We classify a system into components with a high, medium and low share of the total consumption. In addition we highlight where priorities for action should be set. A second step in the energy analysis is an assessment of the potential savings related to each of the individual components.

#### Expertise

We provide a feasibility report which includes an evaluation of the performance, effectiveness and energy efficiency of your product or product idea. The report provided forms the basis for further decisions.

#### Extended workshops

Zühlke also offers moderated innovation workshops with the aim to generate and assess new product ideas. The outcome of the workshop is documented and evaluations, comparisons, calculations and cost estimates are provided.

### Your benefits with Zühlke

- Analysis of your products highlighting the improvement potential.
- An independent expert report forms the basis for your decision making processes.
- Assistance with idea generation, evaluation and feasibility analysis.
- Correct design of your product with extensive calculations and simulations made by experienced Zühlke engineers.
- Access to the extensive Zühlke skills in the field of system integration.
- Moving from product development to series production is our every day business.

We would be very happy to discuss your ideas in the field of energy efficiency with you and look forward to your call.



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