



Energy efficiency in systems engineering

_Optimization for existing and new systems



Sustainability pays off

The European goal of climate neutrality by 2050 also places great demands on you as our customer. How do you reduce your carbon footprint while keeping costs under control? One lever for this lies in increasing energy efficiency and the appropriate measures. KUKA as a partner at your side supports you in reducing CO₂ emissions while keeping a sustainable eye on operating costs. We have the right solutions and will work with you to analyze the options available to your company.

KUKA is your reliable partner throughout the entire life cycle of your system



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Our focus is your needs



We offer you tailor-made complete solutions for the automation of manufacturing processes: starting with the planning, to the project engineering, to the establishment of an automated production plant. **Energy-efficient robots and systems** are an important starting point for reducing **energy consumption** in your application. In our own research and development as well as in cooperation with renowned partners from industry and research, we specifically address customer requirements and continuously work on solutions with the aim of further reducing consumption.

Using a catalog of measures, our experts optimize the energy and media consumption of your systems with a holistic view of robot programming, PLC and production systems. We optimize both existing and new systems.

Energy efficiency can be increased by, among other things

- Optimization of consumers and infrastructure
- Intelligent automation technology and digitalization
- Energetic plant refurbishment
- Optimization of trajectories, waiting times and total cycle time
- Wear reduction through intelligent shutdown as well as optimization of the motion path

To prove the savings, the energy and media consumption is measured before and after application of the measures.

The payback period of each measure is shown in a measure profile. This gives you a precise overview of the life cycle costs of the system.



In projects that have already been successfully completed, energy savings of 15 to 20 percent have been achieved for the robot and up to 10 percent for other plant equipment.

Our guarantee of success

- Energy and CO₂ savings
- Plant performance is continuously optimized in terms of energy performance
- Comprehensive assessment and all-round support during the application process

Your advantages at a glance

- Lower energy costs
- More sustainable use of resources
- No need to purchase additional hardware
- Longer system life, as unnecessary wear and tear is minimized

