



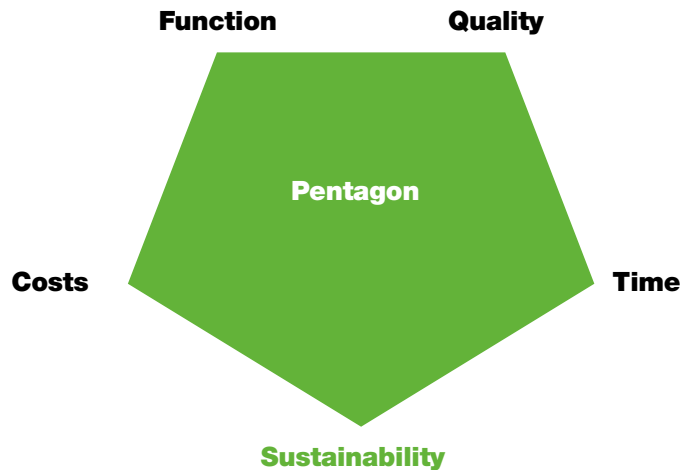
# **Guideline for sustainable construction of the WashTec Group**



**The WashTec Group has set itself the goal of acting in harmony with our environment in all its business activities and thus making a decisive contribution to its protection and preservation.**

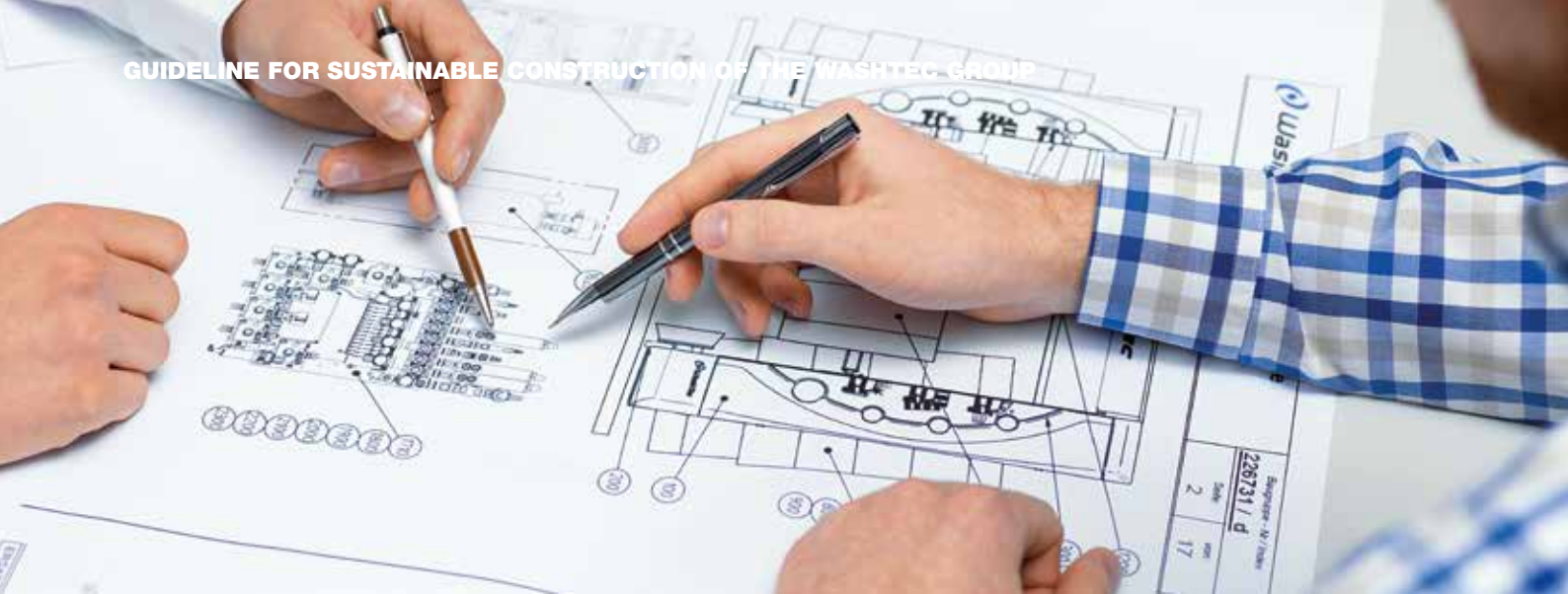
As a supplement to the internationally valid [WashTec environmental guideline](#), this design guideline specifies the principles of our sustainable development and design.

Sustainability complements the development process as the fifth dimension and has the same importance as the other dimensions:



**Excerpt from the environmental guideline: In the design, production and the entire life cycle of our products, we attach great importance to sustainability and the efficient use of resources.**

The following guidelines, divided into two core elements, must be taken into account by all employees involved in the design process.



## Core element 1: Selection of materials, substances and components

- **reusable or recyclable (recyclable material):**  
Material that can be reused at the end of the product life cycle (e.g. steel)  
→ Promotion of the circular economy
- **made from recycled material:**  
recycled material that has already been used (e.g. certain plastics)  
→ Conservation of resources by avoiding new production
- **free of problematic substances:**  
Avoidance of substances of very high concern, among others (SCIP Regulation)  
→ Reduction of the potential environmental impact
- **low-energy:**  
Material with the lowest possible energy requirement in production/finishing (e.g. sendzimir galvanized instead of hot-dip galvanized)  
→ Avoidance of emissions in the production process
- **available as locally as possible:**  
Material that is produced as regionally as possible (short transportation routes)  
→ Avoidance of emissions during transportation
- **from renewable raw materials**  
Material that is not obtained from fossil raw materials (e.g. bioplastics)  
→ Reduction in the use of fossil-based raw materials
- **energy-saving technologies**  
Use of energy-efficient components (e.g. LED instead of fluorescent tubes, electric motors according to class IE3 or better IE4)  
→ for energy-efficient operation of the system



## Core element 2: Operation of the system

- **Water use**

Minimum water requirement/wash cycle

→ Conservation of resources

- **Use of chemicals**

Minimal need for chemicals/wash cycle

→ Reduction of the potential environmental impact

- **Energy use**

Minimum energy requirement/washing cycle (electricity and heat energy)

→ Reduction of emissions (see design guideline doc. no. file: 2540629)

- **Noise**

As little noise as possible during the washing process

→ Reduction of emissions

- **Heat**

Use of heat at a minimum technical level + possibilities for waste heat utilization

→ Reduction of emissions

- **Light**

Control option for adapting to ambient conditions (e.g. illuminance, lighting times)

→ Reduction of emissions and immissions

- **Pollution**

Options for the controlled collection and disposal of waste (water)

→ Reduction of the environmental impact

- **Digitization**

Possibilities for systematized data acquisition via various parameters (sensor technology)

→ Indirect reduction in emissions through continuous improvement from the analysis of the data sets obtained



**WashTec sees sustainable design as a continuous process to optimize our products in terms of the use of resources and to continuously reduce the associated environmental impact.**

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