

Instruments of the German VDI 4801 Standard

Companies that want to analyse resource costs in their operations and develop solutions will find assistance for their resource efficiency project in the Instruments of the German VDI 4801 Standard "Resource Efficiency in Small and Medium Enterprises (SMEs)". The list comprises currently available guides, standards, methods and tools.

www.resource-germany.com/tools

Films: Discover good practices

Short films that show the technologies and measures that firms have already deployed. They provide ideas and inspiration on how you can increase the resource efficiency of your firm.

www.resource-germany.tv

Qualifications: Get fit for operational resource efficiency

Qualification courses in resource efficiency provide employees and consultants with the necessary know-how to implement resource efficiency measures profitably in your company (website available in German only).

www.ressource-deutschland.de/qualifizierung

Resource efficiency service centre

Contact us via the free phone number **0800 9342375** (calls from Germany) for information about operational materials efficiency as well as consultancy and funding opportunities. We'll give you some pointers on how to tackle resource efficiency in your business. For calls from abroad, dial **+49302759506-0**.

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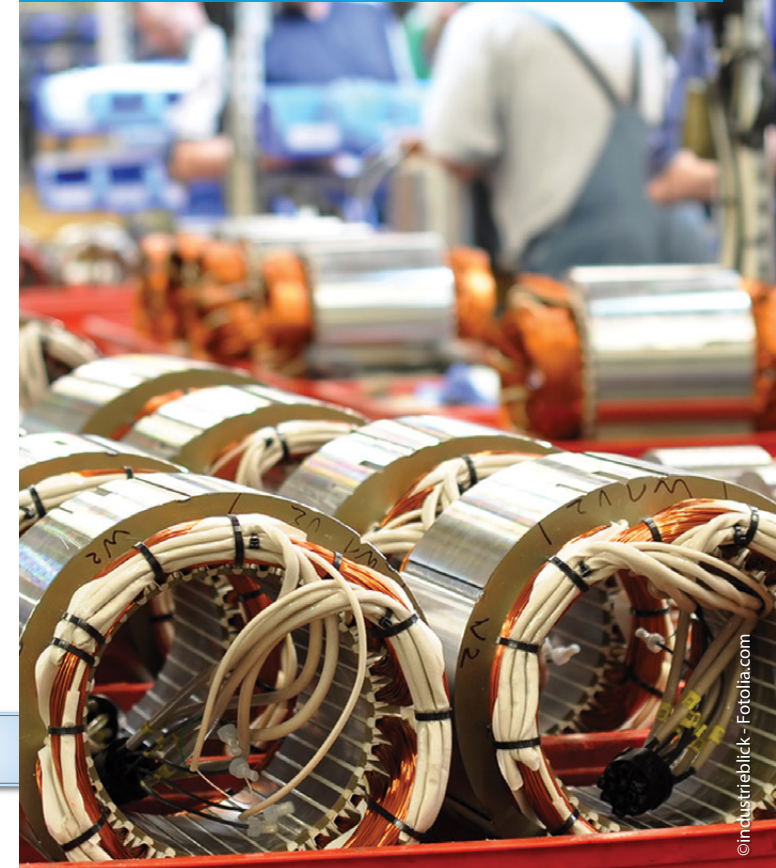
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VDI

Zentrum
Ressourceneffizienz

RESOURCE EFFICIENCY
IN INDUSTRIAL PRODUCTION

Tools and Knowledge



On behalf of:



of the Federal Republic of Germany



Significant cost reduction through resource efficiency

In manufacturing, the cost of materials is very high, with a 42 percent share of total costs. Reducing the use of materials by two percent translates into an increase of about 30 percent in profit for an operation in manufacturing industry. A corresponding increase in sales would be required to achieve the same value. At the same time, resource efficiency enhances competitiveness and uses natural resources responsibly. Efficient use of materials, energy and water is therefore becoming increasingly important for more and more companies.

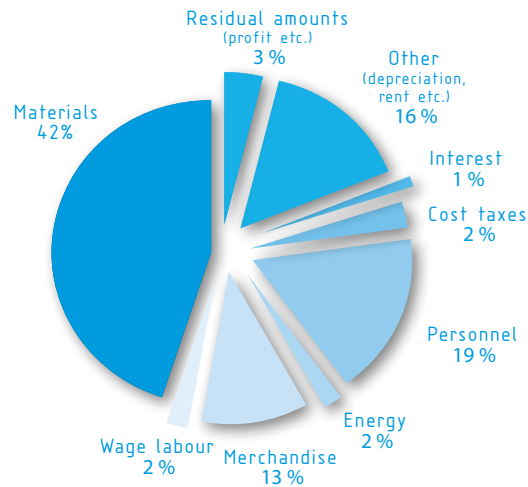


Diagram: Cost structure of manufacturing business
(Source: German Federal Statistical Office 2017, 2015 figures)

Free support for businesses

VDI Zentrum Ressourceneffizienz (VDI ZRE) offers working content and knowledge for the following technology areas in industrial production:

- Metalworking
- Surface treatment
- Plastics manufacturing
- Chemicals production

Resource checks: Assess savings potential

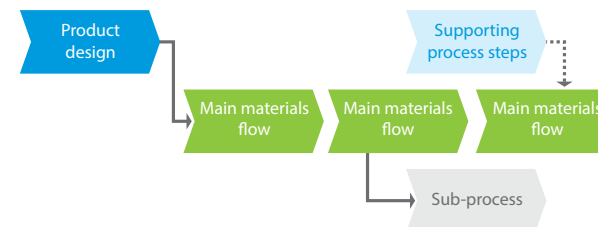
With the help of five to seven questions, resource checks can quantify the savings potential of materials, energy and water. Users receive detailed check-lists, methods, tools and measures for increasing their resource efficiency. The analysis is made available for free download.

www.resource-germany.com/tools/resource-checks

Process chains: Targeted access to technical know-how

Process chains provide a clear overview of best available techniques (BAT) and projects for various industrial processes.

www.resource-germany.com/tools/process-chains



Cost calculator: Calculate efficiency

The cost calculator offers users in small and medium-sized enterprises a practical introduction to resource-based cost accounting. This free calculation tool consists of the following three modules:

- Cost structure calculator
- Materials flow calculator according to DIN EN ISO 14051
- Investment calculator

www.resource-germany.com/tools/cost-calculator

Short analyses and studies: Get detailed knowledge

Short analyses provide an overview of topics relevant to resource efficiency. Studies provide detailed and scientifically based information. All publications are available for download free of charge.

www.resource-germany.com/publications

