



# Training course on resource efficiency for SMEs

Resource efficiency offers significant cost savings, employee retention and the reputational benefits of good environmental performance.

What are first steps companies could take towards resource efficiency? How much effort will it require? What are key strategies for more resource-efficient products and processes? How can businesses utilize Industry 4.0 technologies to reduce costs and improve in competitiveness through resource efficiency? This training will address these questions and more.

The **three-day train-the-trainer course** consists of six modules and its structure is based on the German VDI resource efficiency standard (“*VDI 4801 directive on resource efficiency in small and medium-sized companies*”), a voluntary standard for companies for the integration of resource efficiency in product design and production processes. The course was designed by the *VDI-ZRE Center for Resource Efficiency* in 2019.

## Objective, content and structure of the training

The training introduces instruments, methods and practical tools that can be used in companies to initiate, implement and evaluate material and resource efficiency measures. It includes tools for analyzing, implementing and evaluating resource efficiency in product development and production processes, such as cost accounting methods, corresponding guidelines, ISO standards and approaches

for more efficient product design. The six modules are complemented by practical tasks, including online cost calculators, material flow analysis, company checks and good practice video case studies. How digitization and Industry 4.0 improves resource efficiency is also considered.

### Modular structure

The modules are structured like a roadmap and can be either taught all together or individually (“modular kit”).

- ▶ **Module 1:** Introduction and background: Resource efficiency in companies
- ▶ **Module 2:** Roadmap “Resource Efficiency” – Method and approaches to resource efficiency in companies
- ▶ **Module 3:** Analysis of the current situation in companies and application of tools
- ▶ **Module 4:** Strategies and measures & examples of implemented measures
  - Process-related strategies and measures
  - Product and process-independent strategies and measures
- ▶ **Module 5:** Assessment of measures for resource efficiency
- ▶ **Module 6:** Development of an individual training program for SMEs on resource efficiency

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### Target groups

The target group includes technical and environment-related consultants and experts in the field of resource efficiency in manufacturing companies, representatives of business associations, chambers, advisory or network organizations (multipliers) who deal with the promotion of sustainability in SMEs.

### Languages

The training is available in English, Spanish and Bahasa Indonesia.

## Initiative Resource Efficiency and Climate Action



The Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU) supports efforts to promote resource efficiency and climate protection in G20 emerging countries through the International Climate Initiative (IKI). The IKI project Initiative Resource Efficiency and Climate Action strengthens the capacities of key actors from the political and private sector in G20 emerging countries. It supports the development of measures and strategies to increase resource efficiency and climate protection. A special focus lies on SMEs.

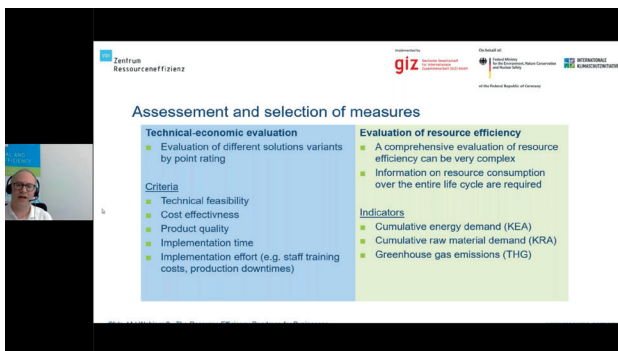
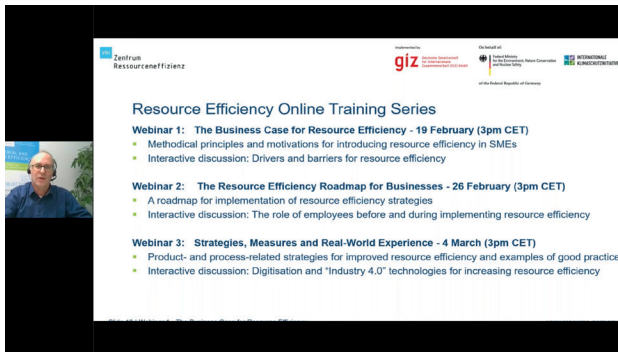
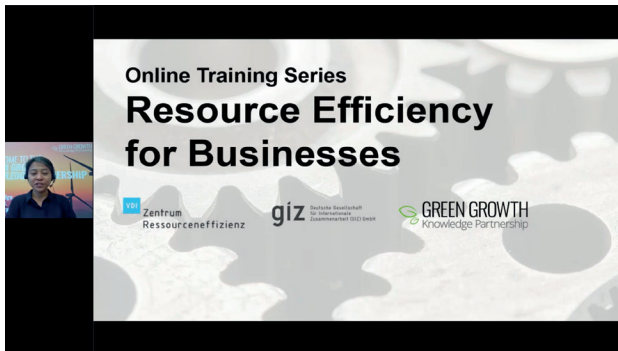


# Short Online Training Course: Resource Efficiency for Businesses

A short version of the training course is available online in English in form of three webinar lectures. The online training consists of three webinars of 2 hours each.

This online course is available via the *Green Growth Knowledge Platform (GGKP)* and conducted by two VDI-ZRE trainers.

The short course introduces the business case (**Part 1**) for resource efficiency for SMEs; presents the development of a company roadmap for implementation (**Part 2**); and discusses tried and tested strategies, measures and best practices & case studies (**Part 3**).



**Weblink:** GIZ Online Training Series – Resource Efficiency for Businesses

## Webinar Part 1

### The Business Case for Resource Efficiency

- ▶ What is resource efficiency and why does it matter for climate change?
- ▶ What motivates companies to become more resource efficient?
- ▶ What are the benefits of resource efficiency for companies?

## Webinar Part 2

### The Resource Efficiency Roadmap for Businesses

- ▶ What are the first steps companies can take to become more resource efficient?
- ▶ How can companies assess their production sites to see where there is room for improvement? What data is required?
- ▶ How can companies assess and select the resource efficiency measures that are most appropriate for their business?
- ▶ What methods and tools can be applied?

## Webinar Part 3

### Strategies, Measures, and Realworld Experience

- ▶ What are the main product-related and process-related resource efficiency strategies?
- ▶ How much effort will it require to implement resource efficiency measures?
- ▶ How can businesses utilize the "Industry 4.0" technology that is expected to transform production to become more competitive and cost-efficient through resource efficiency?



# Questions? ...



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**Contact:** Elisabeth Dürr, [elisabeth.duerr@giz.de](mailto:elisabeth.duerr@giz.de)

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