

## Energy and material flow analysis enhances efficiency of material and energy use.

Resources and energy carriers are becoming increasingly scarce and valuable. The highly efficient use of raw, auxiliary and operating materials and energy carriers coupled with the avoidance of waste and loss are imperative. The EU Directive 2008/1/EC ("IPPC Directive") requires comprehensive analyses of all energy and material flows as part of the approval of new industrial installations and the modernisation of existing ones.

By opting for an energy and material flow analysis (EMFA) you systematically identify potential for savings in your organisation, establish resource and/or energy efficiency and sustainable cycles. The type of approach you adopt in addressing operational energy and material flows is determined by individual targets.

Our experienced experts offer expertise and in-depth familiarity with all types of production systems and support you in the establishment and implementation of your EFMA system. To do so, they apply proven-in-use, flexible software systems.

As your impartial and expert partner, we scrutinise your workflows and point out the technical innovations that best fit your company – for your success.

Our clients appreciate our reliable operations and our well-structured and focused approach. We look forward to hearing from you.

**TÜV SÜD.**  
**Choose certainty. Add value.**



Industrie Service



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## Rely on an experienced partner in implementation: TÜV SÜD.

### Possible approaches

- Input-output balance – identification of weaknesses
- Life-cycle assessment – assessment of environmental impacts
- Installation and process design – comparison of scenarios, determination of target values
- Weakness analysis/benchmarking processes/comparison of procedures
- Polluter-pays principle – allocation of consumption volumes to cost centres
- Material-flow-related investment planning – total cost of ownership – assessment basis

### TÜV SÜD services

- Project selection/project monitoring
- Data collection
- Determination of potential for savings
- Action plan to tap into potential for savings
- Selection of suitable EMFA software
- EMFA implementation in cooperation with the customer
- System maintenance, adjustment to changed operating conditions

### Your benefits

- ▶ Save energy and materials and avoid waste.
- ▶ Increase the transparency of your workflows and improve them continuously.
- ▶ Motivate your employees to use resources efficiently and cut costs.
- ▶ Document your compliance with legal requirements and regulations.
- ▶ Support sustainable environmental protection.
- ▶ Contribute to achieving climate-change targets.
- ▶ Strengthen your market position and distinguish yourself from your competitors.

Our experts have long-standing experience in plant engineering. As your independent partner we offer third-party testing and impartial assessment, thus contributing to your company's profitability.

We will be happy to advise you in more detail. We have international representation.

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