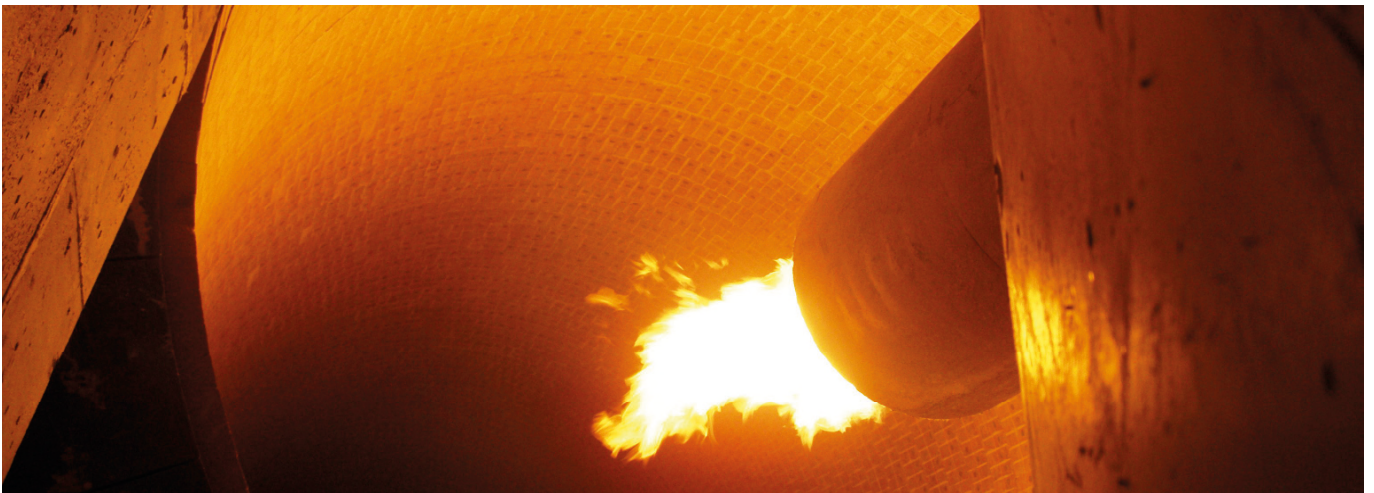


# Energy Balances and Efficiency



21 – 25 March 2022

## Topics of the seminar

- Basics of conducting balances
- Calculation of energy and mass balances
- Measuring techniques
- Efficient mill operation

## Coaches

Highly skilled and experienced engineers from VDZ



## Energy Balances and Efficiency

This training will provide knowledge of how to conduct and evaluate cement kiln and mill trials. Kiln and mill examinations are carried out in order to gather data on the performance and to validate warranty performance data such as the output, the energy consumption, input/output ratio or the efficiency. They also provide a reliable foundation for the optimisation of individual operational system components, the cement quality, the reduction of emissions levels and for assessment of material cycles and coating formations.

### Target groups

- Control room operators
- Production personnel
- Young engineers

### Topics

- Basics of conducting balances
- Planning, organisation and realisation of plant examinations
- Introduction into calculation of energy and mass balances
- Case studies: Calculate an energy balance of a cyclone preheater plant, mass balance of a cyclone preheater plant
- Efficient mill operation (ball mill; roller press; VRM)
- Examinations of cement mills (focus on ball mills)
- Case studies: Ball mill examinations / audits
- Discussion of participants' specific questions and problems

21 – 25 March 2022

Online seminar  
Training sessions: 09.00-13.00

2.750 € per participant

Contact  
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T +49 (0)211 45 78 402

Further information and registration:  
<https://vdz.info/ebae>

### More seminars:

**Firing Alternative Fuels**  
28 - 31 March 2022

More information:  
<https://vdz.info/afuels1>

**Wear of Refractory Materials**  
14 June 2022

More information:  
<https://vdz.info/wofm>

**Installation of Refractory Materials**  
15 - 16 June 2022

More information:  
<https://vdz.info/iorm>