

**Energy & Product-Lifecycle  
Management**

*An integrated concept for industrial energy efficiency*

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## Who we are and what we do

- Independent Service Provider for industrial energy efficiency (consulting, planning, engineering, and realization)
- Based in Freiburg (Southwest Germany)
- Founded by a team of experienced engineers
- Team and network of: energy engineers, system integrators, architects, and economist
- Currently involved in consulting and realization projects in: Turkey, Poland, France, Brasil, Singapore



**„No Synergy without Energy“**  
*Willy Meurer*

- How can I create a positive public image of my company?
- How can I ensure continuing competitiveness?
- How can I guarantee long-term security of supply?
- How can I utilize my resources sensibly and economically?



## “A holistic approach is the basis of a future-oriented energy management”

- Energy Management Systematic
  - Underlying management process defined as the „continuous planning process that is used to accomplish the efficient use of energy in a system“
- Process and behaviour change
- Technical Energy Management
  - Optimization of:
    - Energy Generation
    - Energy Conversion
    - Energy Distribution
    - Energy Consumption
- Efficient design and operation of existing equipment or green-field projects

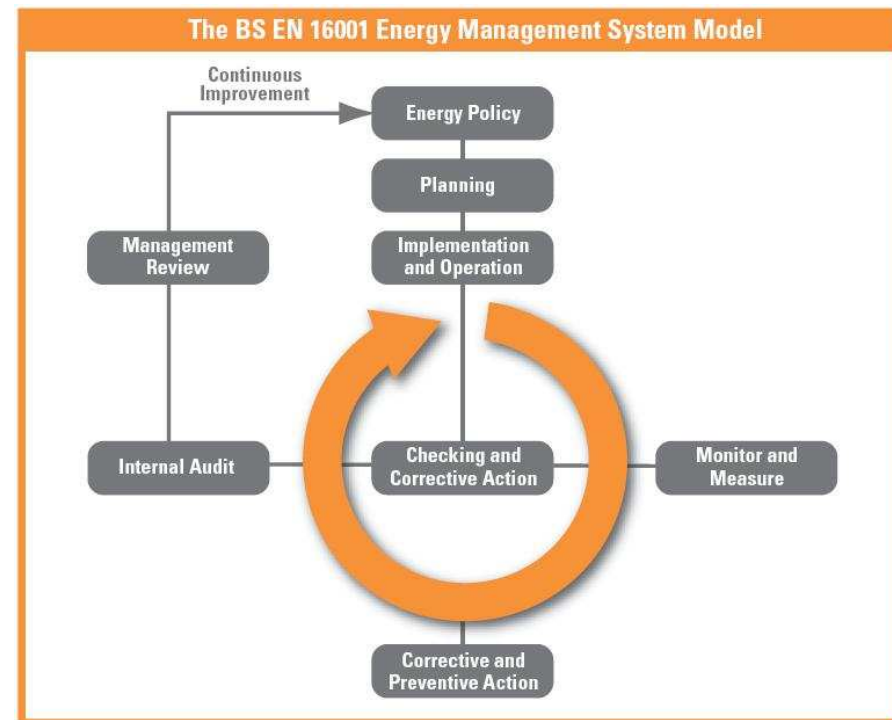


## „Energy Management in line with ISO 50001/EN16001: The way to achieve sustainability“

- Assessment of all energy related processes:
  - Maintenance procedures
  - Energy procurement
  - Energy policy
  - Transparency of consumption
  - Awareness of Staff
  - ...

### Outcome:

- Opportunities for improvement and start of a Continuous Improvement Process
- Preparation for ISO 50001 certification (final certification through independent accreditation body, e.g. TÜVCert)
- Customized on-site training and seminars possible





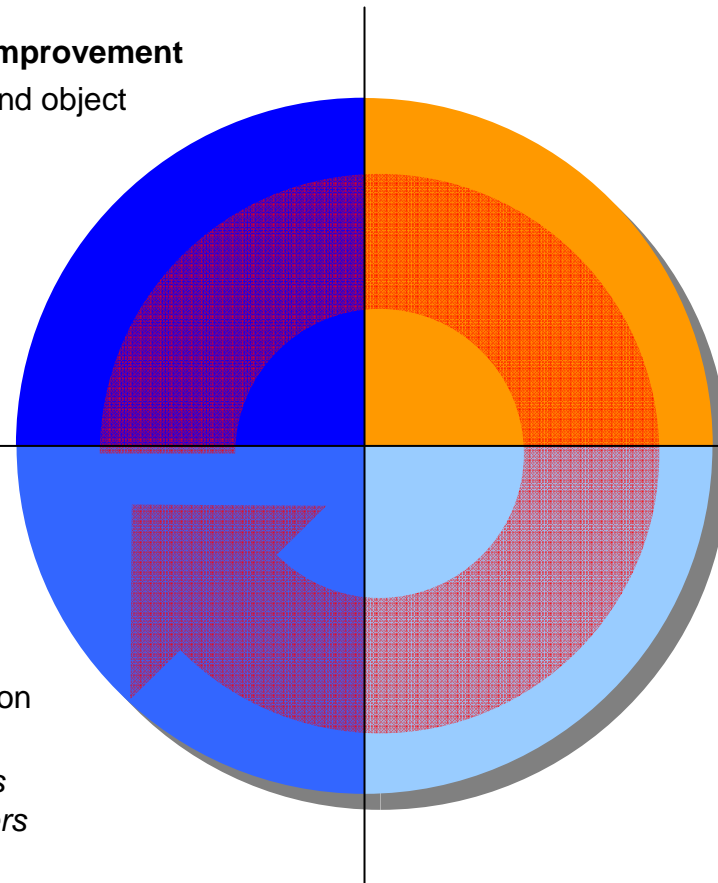
## “Full service provision for industrial energy efficiency: Professional solutions from one source”

### Realisation and Continuous Improvement

- Construction supervision and object maintenance
- Verification of success
- *Outcome → Sustainable energy cost reduction. Reduced environmental impact. Enduring competitiveness and green marketing*

### Engineering and Design

- Design and construction documentation
- Preparation and participation in tendering procedures
- *Outcome → Detailed plans and drawings. Binding offers from preferred suppliers*



### Target Definition

(Max. 2h on-site or back-office)

- Energy situation and problem definition through data evaluation and interviews
- *Outcome → Rough estimation of saving potential. Go/No-Go decision*
- *Basis for customized plant assessment*

### Site Assessment

(Up to 2 weeks on-site and back-office)

- Comprehensive site evaluation through experienced energy engineers
- *Outcome → Detailed concept with technically and economically feasible measures for a sustainable energy and CO<sub>2</sub> reduction*



**Thank You!**

**Tino Daniel Puce**

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