

SUSTAINABLE ENERGY
SET@Work
TECHNOLOGY AT WORK



Certified energy management systems

Target and Monitoring

www.setatwork.eu

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Course structure

1. Introduction
2. Organisation and planning
3. Review of energy aspects
- 4. Target and Monitoring**
5. Training and communication
6. Purchase and project design
7. Management review

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Agenda

- Identification of saving opportunities
- Evaluation of saving opportunities
- Setting targets
- Management programmes
- Monitoring

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Saving opportunities

- Identify saving opportunities within the organisation, e.g.
 - Lead Process people
 - Operators
 - Workshop/Maintenance department
 - Environmental department

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Saving opportunities

- Identify saving opportunities outside the organisation, e.g.
 - Best practices
 - Best available Technology studies
 - Cleaner production assessments
 - Environmental reviews
 - Benchmarks
 - Equipment
 - Sector specific (national/international)
 - Suppliers
 - Universities
 - Energy agencies

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Evaluation of saving opportunities

- Energy savings
- Cost savings
- Required investments
- Potential impact on quality
- Technical feasibility
- Required R&D input

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Information

- Who needs monitoring data
- Data required for different levels?
- How does the organisation communication about energy consumption and emissions?

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Monitoring

- Key performance indicators, KPI
 - Management level, e.g. kWh_{el}/tonnes_{product}
 - Operational level, e.g. kWh_{cooling}/kWh_{el} for chillers
- Relate to:
 - Significant energy users
 - Current targets
 - Management programs

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Monitoring needs

- Which utilities should be included?
- Which processes/equipments should be included?
 - Targets
 - Significant energy users
 - In control of the organisation
- Which consumption data should be documented?
 - Targets
 - Link to management programmes
 - Objectives – identification of saving opportunities
 - Review of energy aspects

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Recommendations

- Design simple and understandable KPI's
- Keep monitoring simple register only what is needed
- Adjust data registration and KPI's over time

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The end

Thank you for your attention

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