

Environmental Management Systems

General information on procedures
and requirements of a company implementing EMS

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Cleaner and more Cost Effective Industry in Macedonia

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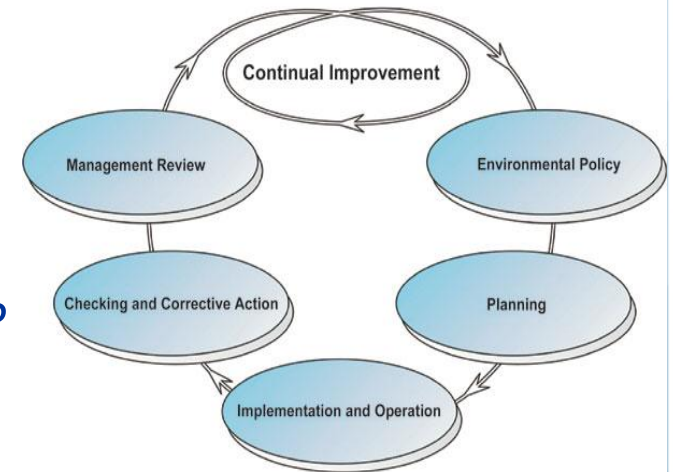
Environment and industry – motivators for Environmental Management

- Global and local challenges
- Environmental strategies in industry has changed
- Environment as a core in business management
- Sustainable development
- Corporate Social Responsibility



What is an EMS?

An EMS helps us to controls all activities witch have environmental impacts through responsibilities, tasks and procedures.



- **Environmental policy:** *Where do we want to go?*
- **Environmental impacts:** *Where are we?*
- **Environmental programme and targets:** *Where are we going?*
- **Environmental management system:** *How are we getting there?*
- **Environmental audit:** *Are we on the right track?*

EMS: International Standards

■ ISO - International Standardization Organization

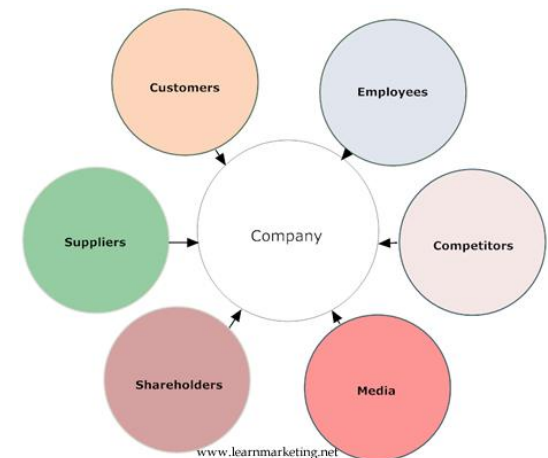
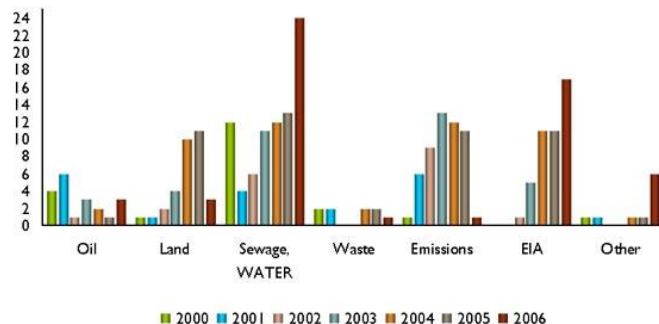
- ISO 14001 – Environmental Management Systems
- A comprehensive global standard and guideline to implementation of EMS
- Based on two concepts: Continuous improvement and regulatory compliance
- Applicable to any type of organization in any industry sector
- Certification by a accredited 3. party

■ EMAS - Eco-Management and Audit Scheme

- EU initiative
- Voluntary instrument which acknowledges organisations that improve the environmental performance on a continuous basis
- For both public and private enterprises
- Similar approach for EMS as ISO 14001, but with some small differences
- Participating organizations must describe the criterias for the priority of environmental aspects and impacts in the environmental programme
- Participants must publish an annual environmental report
- Certification by a accredited 3. party

EMS application in industry - Potential Benefits

- Reduced resource consumption and costs
- Open new markets, environmental performance is important when accessing the EU-market
- Prepared for future regulations, being proactive is profitable
- Reduce legal risks and insurance costs
- Improve the relation to stakeholders and the public
- Attract the best employees
- Reduce compliance costs



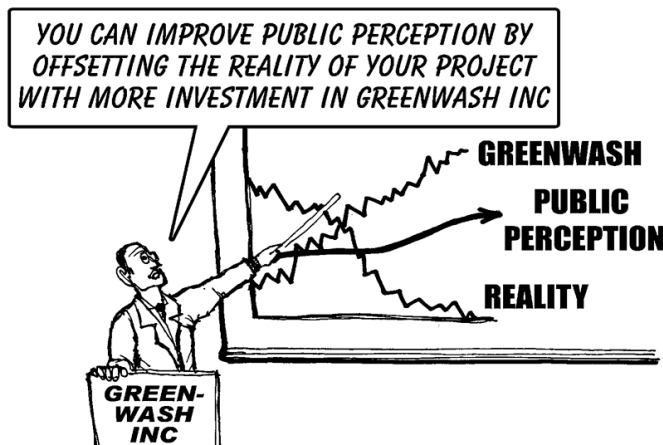
Implementation of EMS – keys to success

- Management commitment and involvement
- Motivation and involvement, competence and attitude in the organisation
- Environmental policy – significant environmental issues
- Clearly defined and communicated objectives, targets and responsibilities in the environmental work
- Relevant procedures and routines, preferably integrated in existing management systems
- Internal audits and improvement
- Information, communication, information!

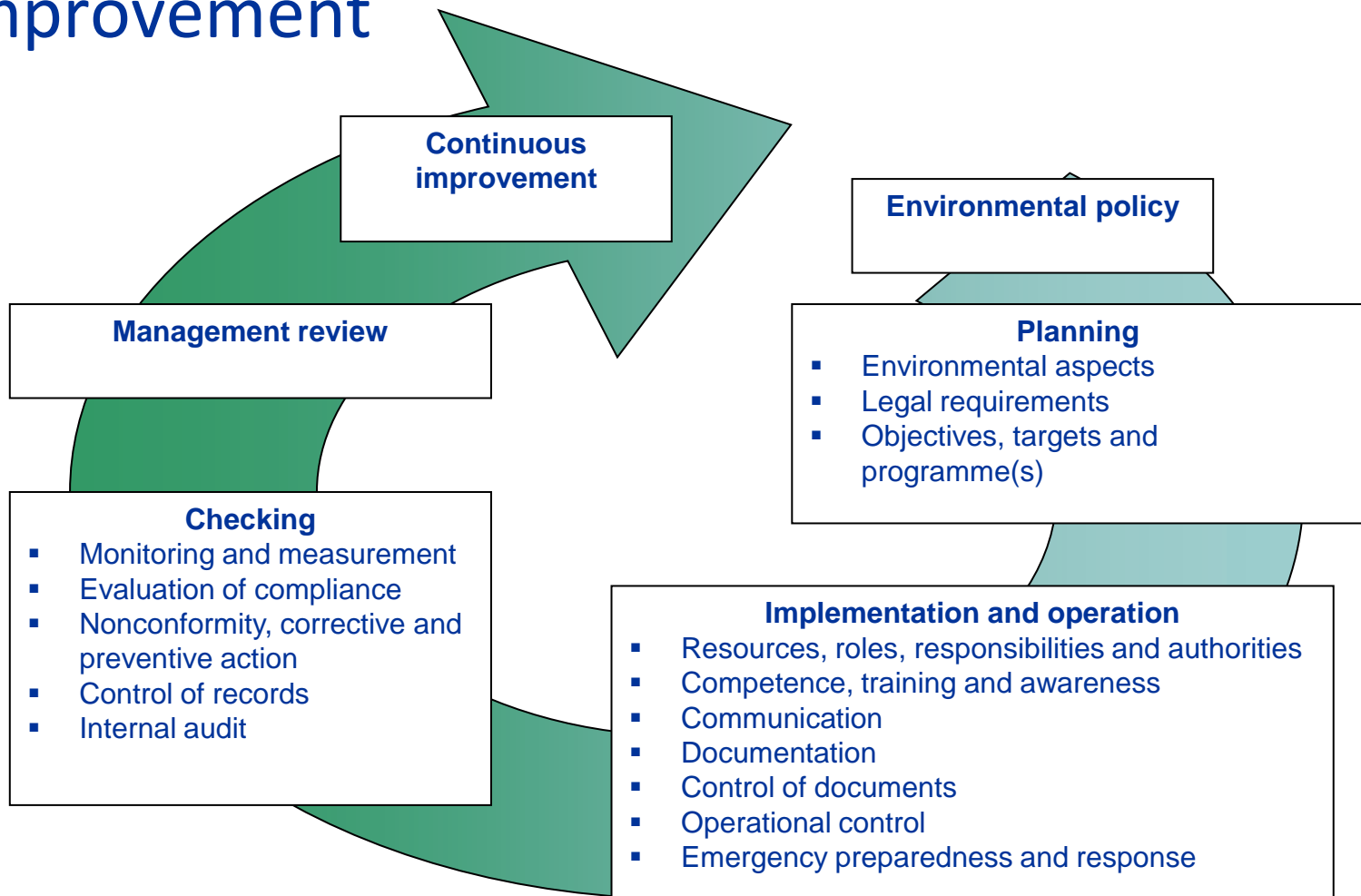


EMS application in industry – Potential Risks

- Loss of management commitment and involvement
- High ambitions and poor planning can put high demands on human resources
- “Green washing” - Never claim something you cannot prove
- Raising unrealistic internal and external expectations
- Insufficient resources for maintenance and updating of the EMS



EMS - The systematic approach for continuous improvement



Continuous improvement

Environmental policy

Management review

Planning

- Environmental aspects
- Legal requirements
- Objectives, targets and programme(s)

Checking

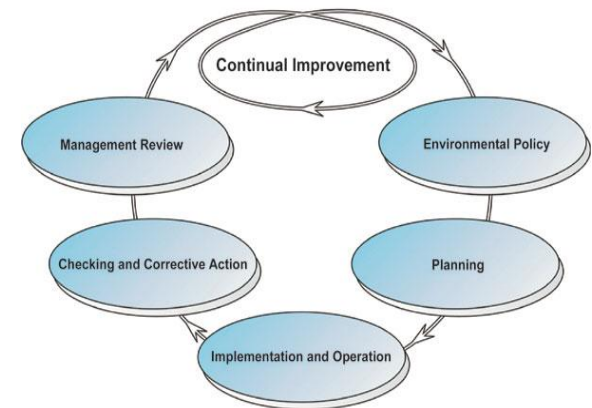
- Monitoring and measurement
- Evaluation of compliance
- Nonconformity, corrective and preventive action
- Control of records
- Internal audit

Implementation and operation

- Resources, roles, responsibilities and authorities
- Competence, training and awareness
- Communication
- Documentation
- Control of documents
- Operational control
- Emergency preparedness and response

Implementation of EMS – some clarifications

- Risks by NOT implementing an EMS
 - Unaware of environmental risks
 - Present and future legislations and requirements from customers and other stakeholders (e.g EU membership negotiations)
 - Loss of market share due to new environmental trends, demands in the market and competitors
- Realistic expectations from EMS in short and long term
 - Environmental performance
 - Costs and savings
 - Reputation
- Environmental policy in accordance to ambitions and resources
- EMS – certification ? ISO – EMAS?







Thank you for your attention!

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Environmental Goals and International Policy – motivators for Environmental Management

- The Kyoto Protocol
 - Climate change emission reduction targets
- EU – 20-20-20
 - Renewable energy target & emission targets
- UN Global Compact
 - Principle 7: Businesses should support a precautionary approach to environmental challenges;
 - Principle 8: undertake initiatives to promote greater environmental responsibility;
and
 - Principle 9: encourage the development and diffusion of environmentally friendly technologies
- Integrated Pollution Prevention Control (IPPC)
 - EU
 - Best available techniques

