

Energy Efficiency

Energy Efficiency - Advantage for Business, Industry and Environment

by

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Energy Efficiency

Status: Permanent increasing energy costs

Fact: Energy short cuts

Gaps of 25 to 40 Mio KWh between public electric supply and industrial demand in Asia



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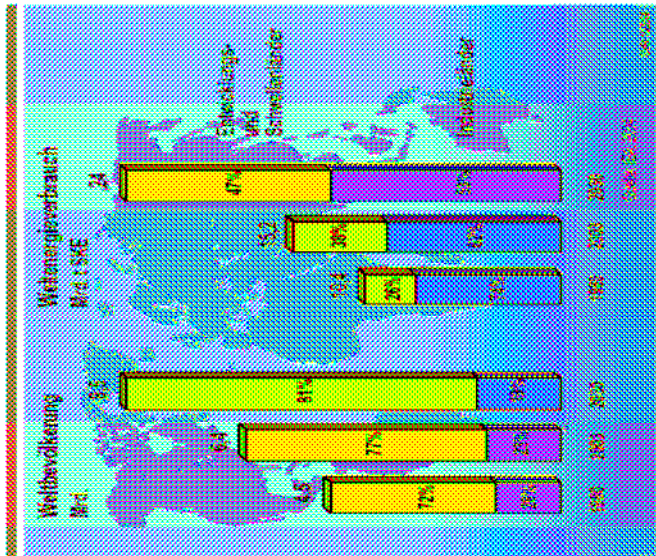
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Driver: Ongoing economical and population growth

Population 1980 to 2030: Nearly doubled

**Energy consumption 1980 to 2030: more than doubled
(150 %)**



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Evidence: Creation and usage of energy is the mayor contributor to critical environmental impacts



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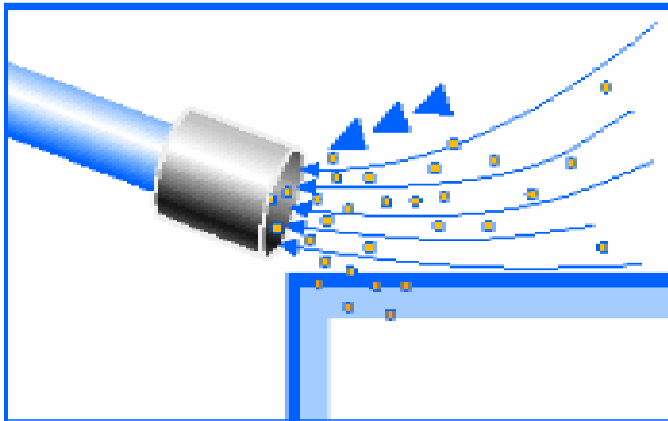
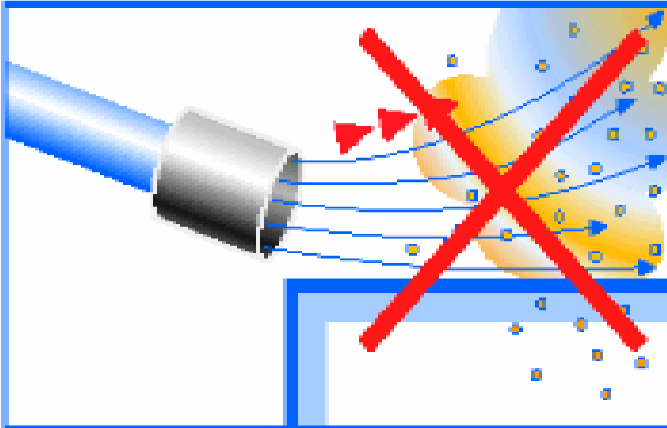
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Conclusion: Energy efficiency measurements

- Safe capital and staying competitive
- Safeguard production performance
- Protection from future price developments and taxes
- Safeguard natural habitats and resources for existing and future generations



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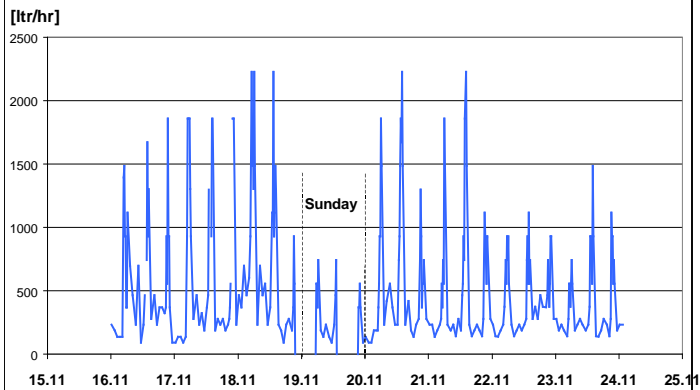
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No production took place on Sunday !

Important tool: Environmental Management Systems (EMS)

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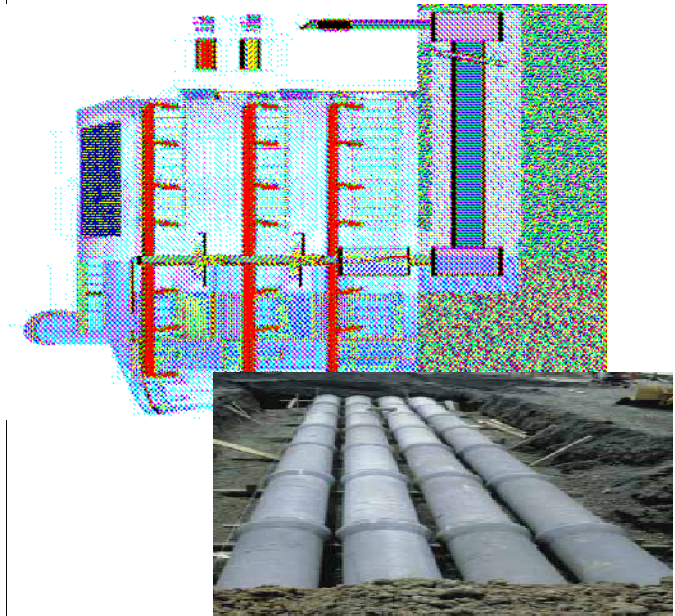
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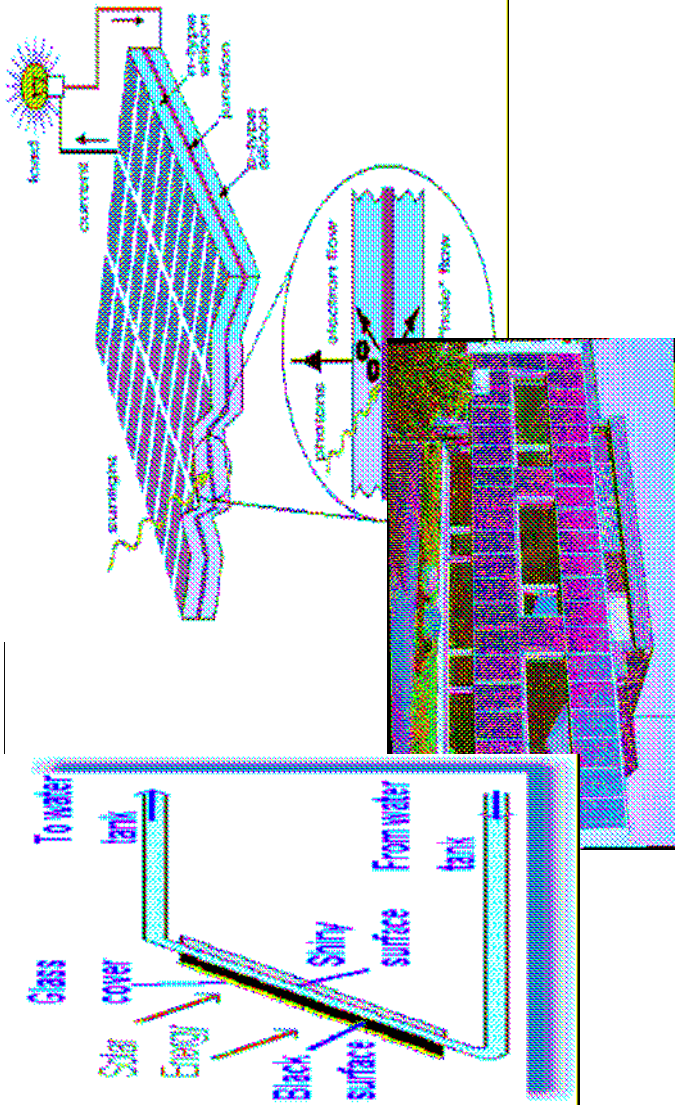
Important area: Facilities and Structures

Integrated efficiency approach for planning, construction, extension or renovation of sites



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Important area: Best available technologies and innovations



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Important area: Upgrade and improvement of existing production sites

- High costs saving potential
- Short return on investment cases

Measure: Replacement of pipe and reservoir isolation

Savings: 4,545 to steam/year

Cost savings: 86,140 €/year

Investment: 35,000 €

Return on investment: 3 months



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Thank you for your kind attention



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