

Energy Efficiency

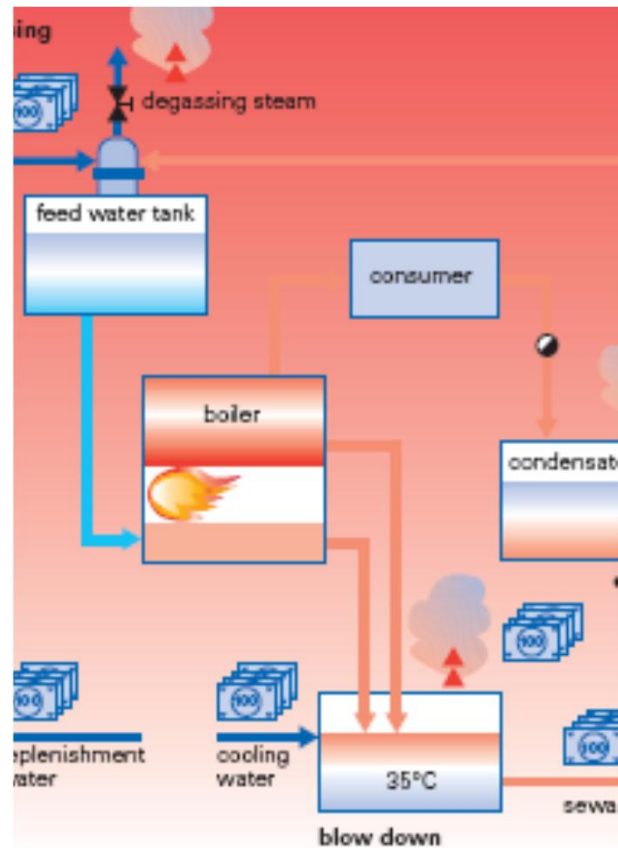
Energy Efficiency - Advantage for Business, Industry and Environment

by

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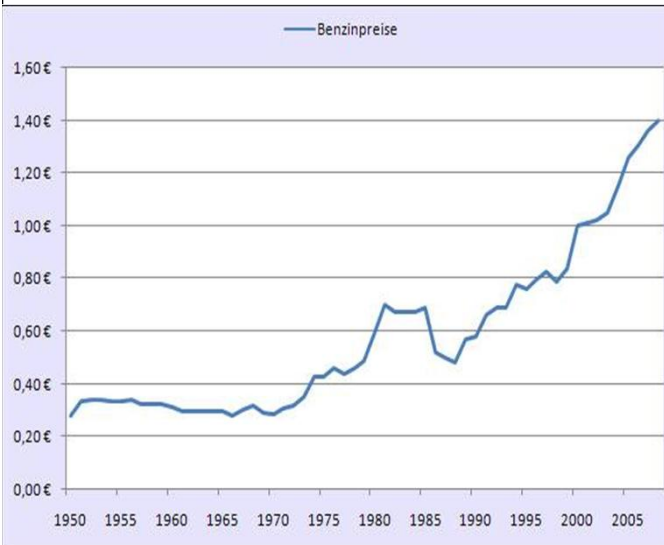


Energy Efficiency

Status: Permanent increasing energy costs

Fact: Energy short cuts

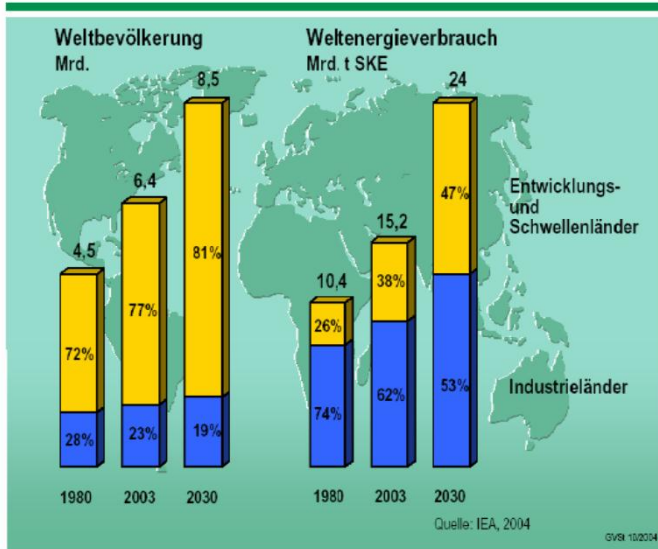
Gaps of 25 to 40 Mio KWh between public electric supply and industrial demand in Asia



Energy Efficiency

Driver: Ongoing economical and population growth

Population 1980 to 2030: Expect to nearly double
Energy consumption 1980 to 2030: Expect to more than double
(150 %)



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Energy Efficiency

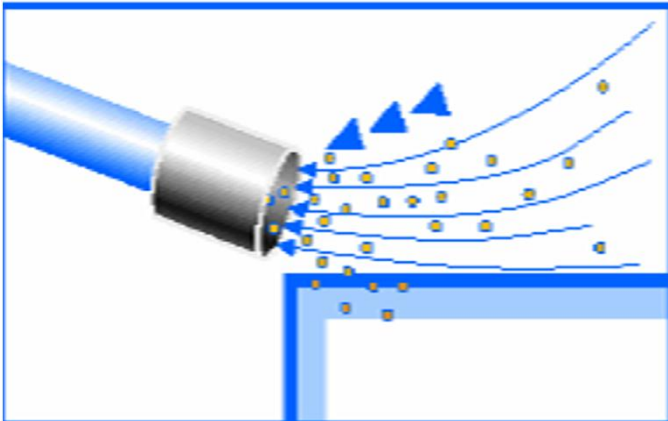
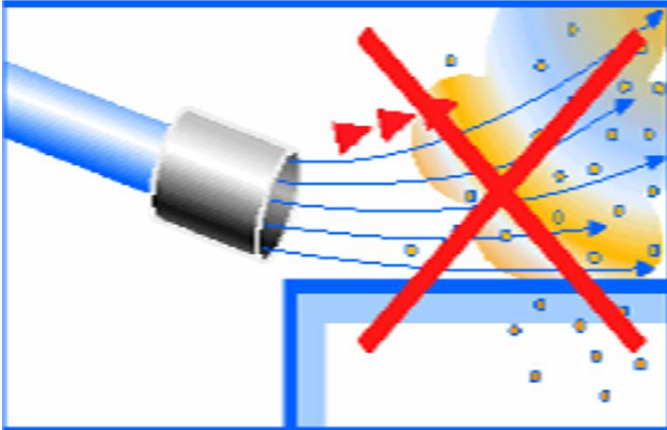
Evidence: Creation and usage of energy is the major contributor to critical environmental impacts



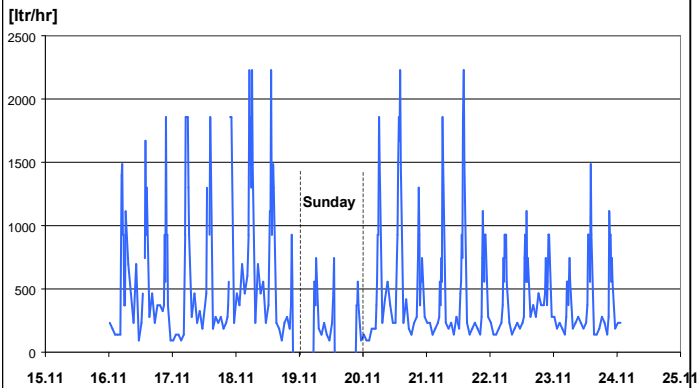
Energy Efficiency

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



Energy Efficiency



No production took place
on Sunday !

Important tool: Environmental Management Systems (EMS)

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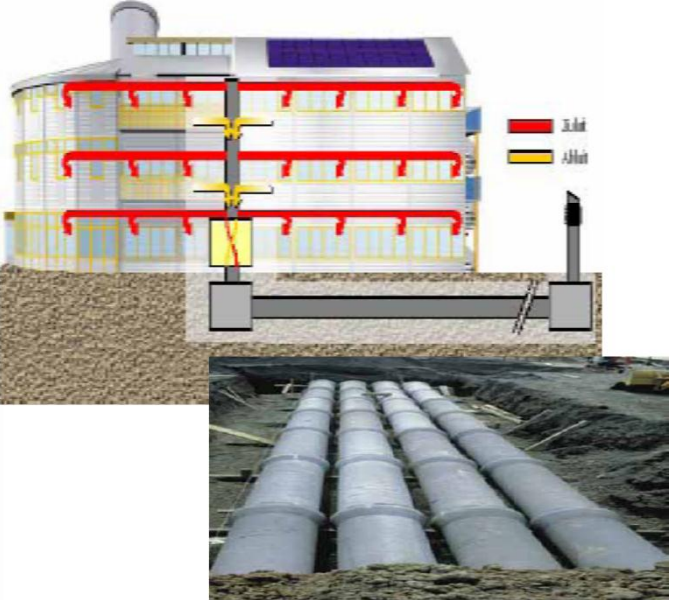
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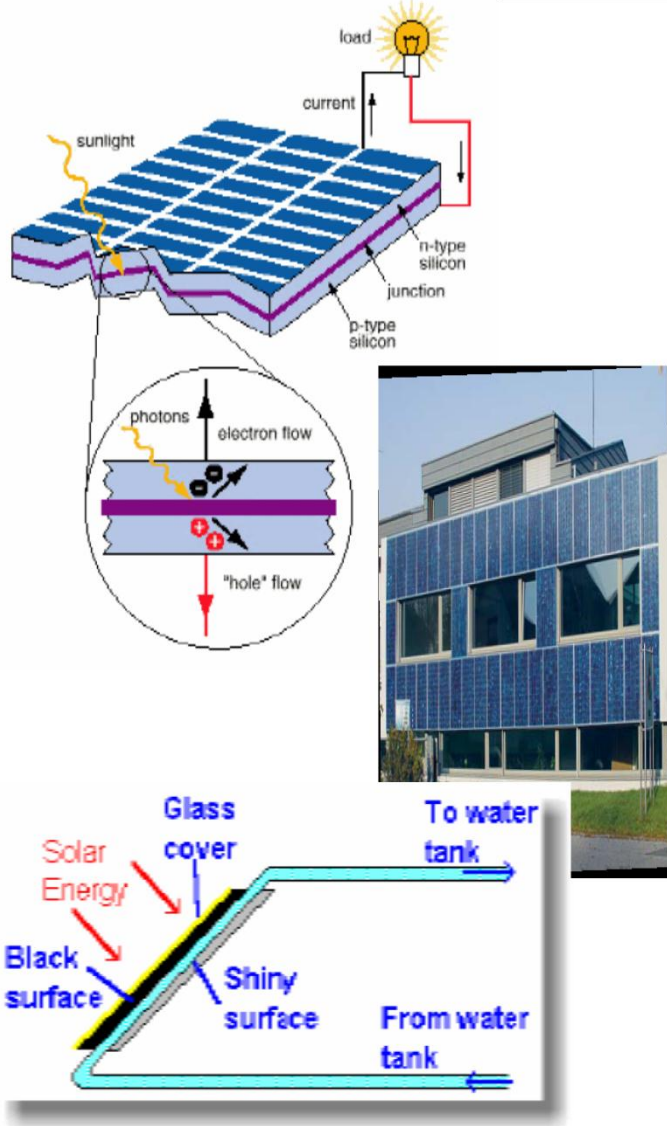
Important area: Facilities and Structures

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



Energy Efficiency

Important area: Best available technologies and innovations



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Energy Efficiency

Important area: Upgrade and improvement of existing production sites

- Huge costs saving potential
- Short return on investment

Measure: Replacement of pipe and reservoir isolation

Savings: 4,545 to steam/year

Cost savings: 86,140 €/year

Investment: 35,000 €

Return on investment: less than 5 months



Energy Efficiency

Thank you for your kind attention



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