



FORE-SCENE

workshop

industry/economy

resource efficient technologies
and eco-design

INETI/CENDES 1990-2006

- ❑ Environmental impact assessment
 - ❑ Environmental management systems
 - ❑ Cleaner production/eco-efficiency
 - ❑ Life-cycle thinking/ecodesign/sustainable product development
 - ❑ Product-service systems
 - ❑ Social responsibility and business ethics
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- *How do companies contribute to sustainable development? What is the business role?*

Keywords

- sustainability as process of change
for everyone and everywhere
today and tomorrow
- (eco)efficiency
do more with less
- (eco)innovation
do it in a different way

Cleaner production

- PROSSET Program
- INOVE Program

- *10-20% reduction on waste materials*
- *reduction/substitution of toxic materials*
- *better health and safety practices*
- *10% reduction of energy consumption*
- *closing water cycles*
- *economic savings*

ECO-ERGO Project

- ❑ Eco-design of pressure cookers
- ❑ Main problem: energy consumption during use phase
- ❑ Main company goal: 100% recyclable pressure cooker

SECIL Project

- Cleaner production
 - Suppliers (quarries)
 - Concrete production
 - Concrete products
- Product development
 - Concrete pipes
 - Concrete roof tiles
- Product service-system
 - Selling the (certified) house instead of construction materials

SusProNet

- result-oriented PSS: selling results instead of products
 - e.g. dry environment instead of a roof
- PSS need to be designed as sustainable as possible
- stimulated by the right framework conditions

Goals & targets

at micro level

- energy efficiency/X% renewable energy
- materials efficiency/X% renewable materials
- zero emissions of toxic substances
- closing water cycles
- codes of ethics including commitment with contribution for targets at macro level

Goals & targets

at macro level

- quantified decoupling targets per need area
- targets for progressive substitution of non renewable resources by renewable ones
- free toxic regions (on a life-cycle basis)
- targets for sustainable management of hydric resources

Policy instruments

- Merge Lisbon strategy with EU strategy for sustainable development, including the SCP action plan
- Voluntary initiatives in the framework of social responsibility
- Sustainable public procurement
- Training and education