



UNIDO – UNEP National Cleaner Production Centres (NCPCs)

Environmental Management Branch

United Nations Industrial Development Organization (UNIDO)

AND

Sustainable Consumption and Production Branch

United Nations Environment Programme (UNEP)

UNIDO-UNEP RECP Programme

Green Industry – Green Economy



National Cleaner Production Centres



- Established to foster adaptation and adoption of Cleaner Production

1. Information and awareness creation
2. Professional training
3. Plant level assessments and demonstrations
4. Policy advice
5. Technology transfer and investment

- Programme launched in 1994 and expanded to 47 countries



www.unido.org/cp

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Information Resources

Resource Productivity and Energy Efficiency



On line toolkit for SMEs

- Manual and training materials
- 40 Asian company case studies
- Technical information sheets
- Five sectors
 - Cement, ceramics, iron & steel, chemical & fertilizers, pulp & paper
- Nine countries:
 - Bangladesh, China, India, Indonesia, Mongolia, Philippines, Sri Lanka, Thailand and Vietnam



www.energyefficiencyasia.org

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Technology Transfer

- Nora is medium sized olive processor in Morocco
- New technologies
 - Two-phase olive pressing
 - Pomace drying
 - Biomass boiler
- Investment USD1.5M, reduced operational costs by 15%, increased efficiency by 2% and improved quality
- Elimination of waste water and organic waste
- GHG reduction 1,500 tCO_{2-eq}/year



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National Institutions

o Vietnam National Cleaner Production Centre

- Now operating as business entity co-owned by Hanoi University of Technology and founding staff members
- During past 10 years assisted more than 300 companies that jointly:
 - Invested 4.8 mil. USD
 - Achieved annual savings about 9.7 mil. USD though reduction of:
 - 63,000 MWhr electricity
 - 43,000 ton coal,
 - 8 million m3 water, and
 - around 4,700 ton chemicals
- GHG benefits exceeding 150,000 ton CO₂-eq annually



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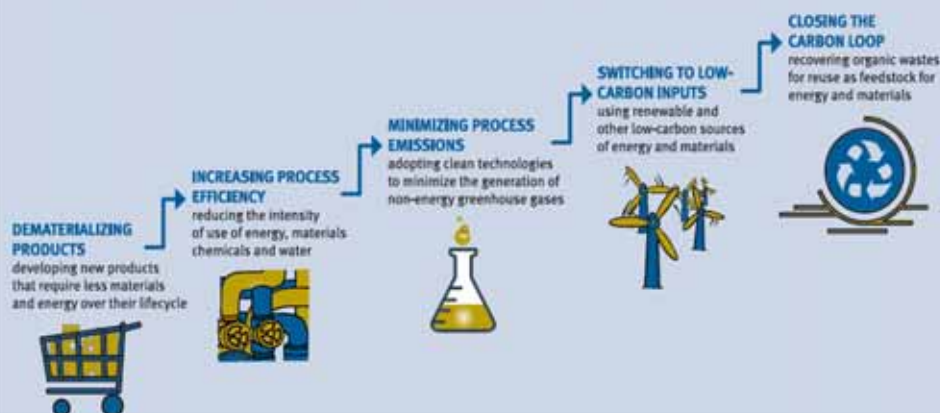
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Resource Efficient and Cleaner Production: innovation for low carbon industry



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Moving Forward

- Suggestions for climate innovation centres:
 - *Customize* – target sectors, types of technologies
 - *Synergize* – build upon and integrate existing and emerging capacities
 - *Monitor, review and adjust* – activities, outcomes, expertise, spin-off impacts
 - *Mainstream and scale-up* – plan for widespread replication
 - *Governance matters!* – institutions should follow and support functionality



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More information?

○ **Cleaner Production Centers as Model for Climate Innovation Centres**

- Greensolutions@COP16
- Coral Beach Hotel
- 8th December 09:00 – 11:40

● **Contributors**

- Mexican NCPC
- Colombia NCPC
- Banco Nacional de Comercio Externo
- SECO/Government of Switzerland
- UNIDO
- UNEP



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Thank You



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