



Overview of Egypt National Cleaner Production Center Activities on GHGs Emissions Reduction

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ENCPC Institutional Set Up



The Egypt National Cleaner Production Center was established as a service provider for the Egyptian Industry in 2005 by the Ministry of Trade and Industry (MTI) in close cooperation with the United Nations Industrial Development Organisation (UNIDO)

Vision

To be the Center of Excellence of CP

Mission

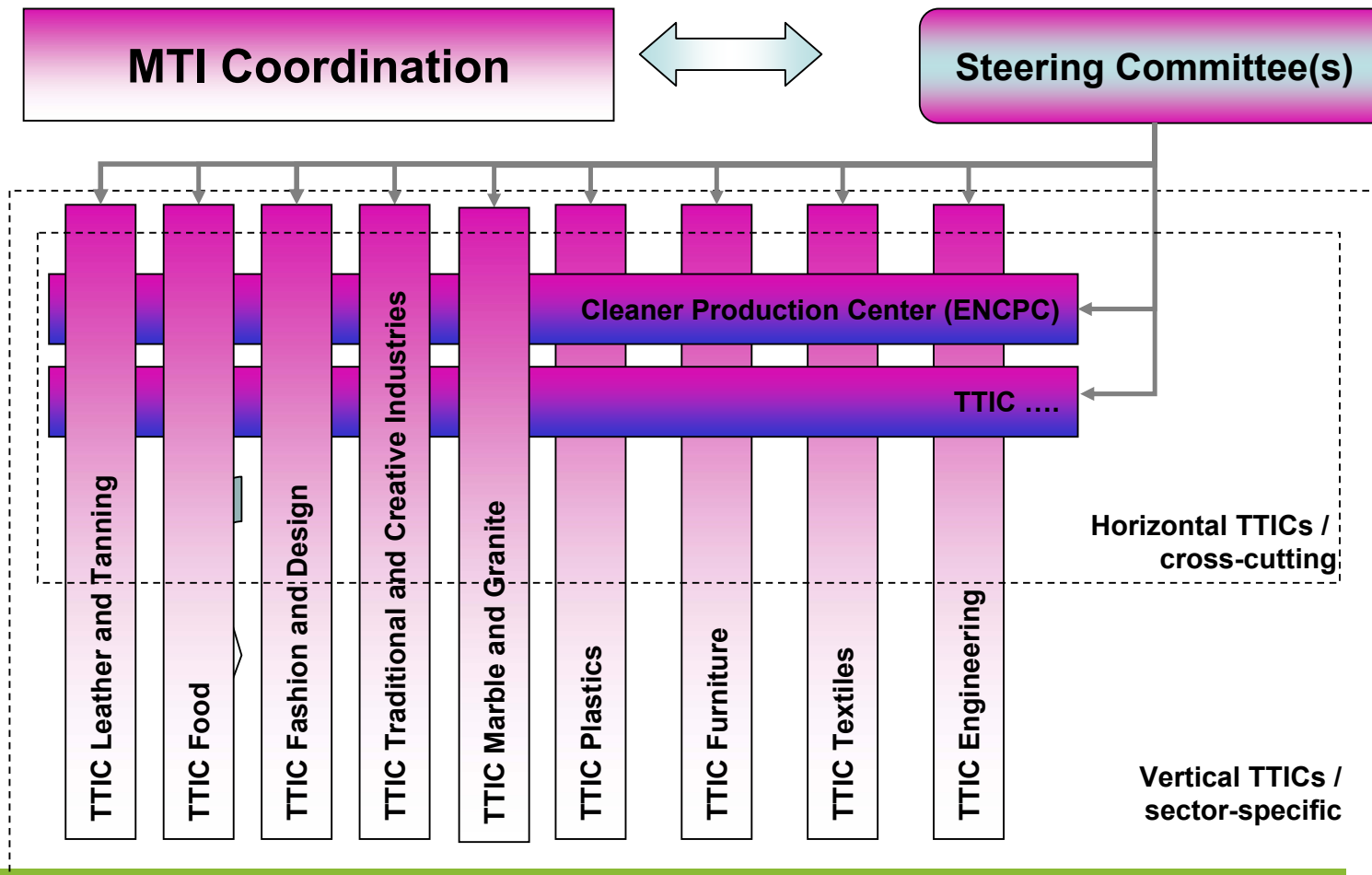
To enhance the competitiveness and productivity of Egyptian industry, through increased application of Cleaner Production (CP) methodologies.



ENCPC Organization



Egypt National
Cleaner Production Center



United Nations Industrial
Development Organization



Ministry of Trade and Industry

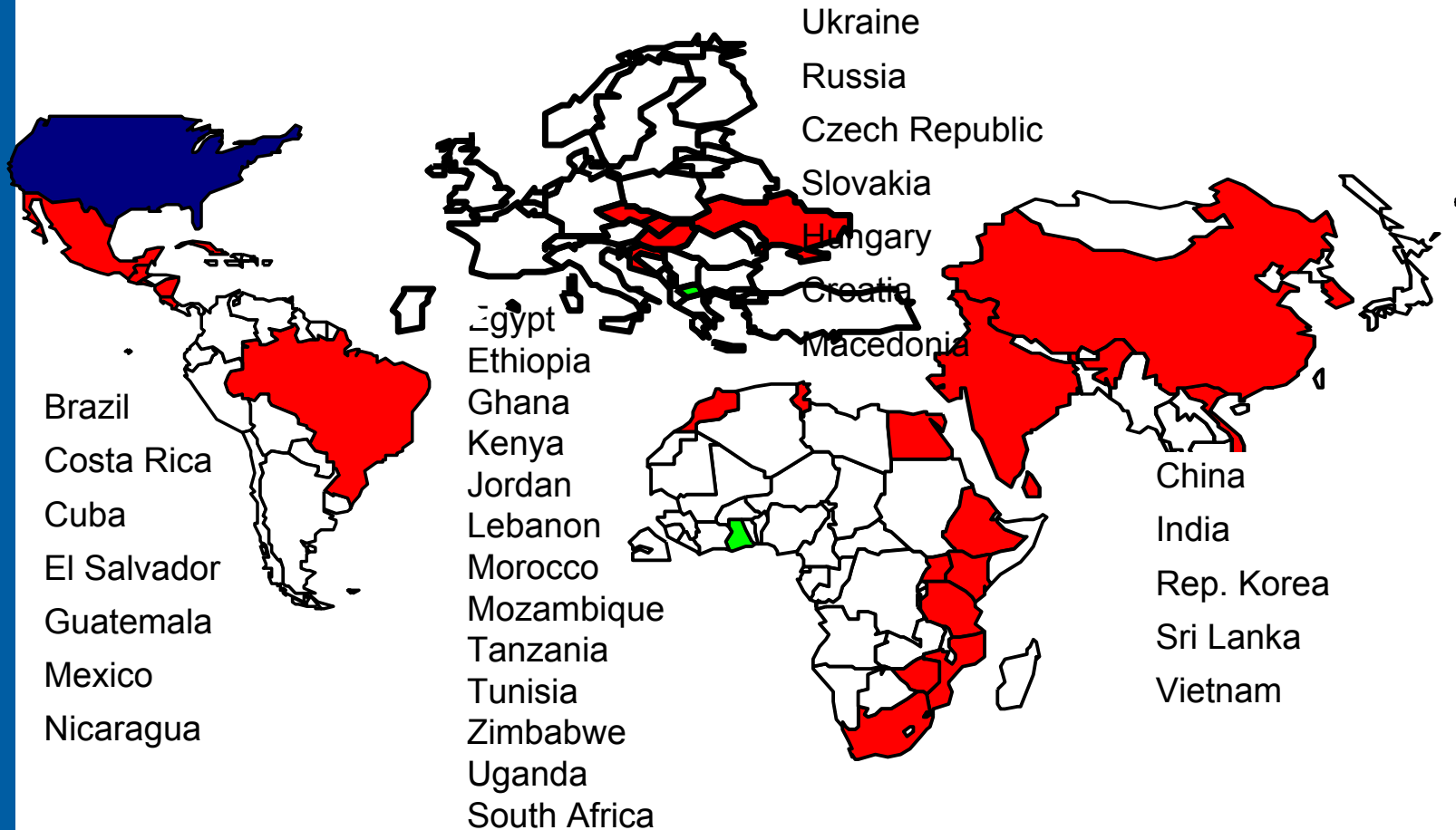


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NCPC Network



Egypt National
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ENCPC Services



1. Cleaner Production
- 2. Energy Efficiency and Renewable Energy**
3. Chemical Leasing projects
4. REACH (New Legislative Framework on Registration, Evaluation, Authorization of Chemicals)
- 5. Clean Development Mechanism (CDM)**
6. Waste Valorization and Recycling (e.g. Industrial waste management, Zero waste projects)
- 7. EST Transfers, Investment Promotion & financial services**
8. Management Systems and Certificates
9. Training programs
10. Marketing and promotion of cleaner production concept



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ENCPC activities of related to GHGs reduction



A- ENCPC Program on Energy Efficiency

- **Energy Audits**

The ENCPC lunched its energy efficiency services to the Egyptian Industry through carrying out **energy audits for industrial enterprises** (including auditing, assessment and implementation of projects)

- **Renewable Energy and Bio-fuel:**

The ENCPC is currently involved in preparing a national feasibility study for the opportunities of implementation bio-fuel project in Egypt.

- **Training on Energy Efficiency**

The ENCPC is offering training programs on energy efficiency for the Egyptian industries

B- Clean Development Mechanism

The ENCPC is supporting the Egyptian companies in preparation of Project Idea Note (PIN) to implement an emission-reduction project. Such projects can earn saleable certified emission reduction (CER) credits, each equivalent to one tonne of CO₂, which can be counted towards meeting Kyoto targets.

C- Environmentally Sound Technology Transfer

A- ENPCPC Program on Energy Efficiency



Energy Audits for Energy efficiency and improvement the fuel combustion at:

- Cairo Cotton Company
- El Naser Mining Company
- Delta Aromatic Company
- Hator (Sekem group) Company
- Enjoy Company
- Misr for Aromatic Products



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Energy Efficiency Training

The ENCPC in close cooperation with UNEP and InWent organized a training on Energy Efficiency “A Guide for Trainer” from 31st March till 4th April with the attendance of 8 Arab and African countries.



B- Clean Development Mechanism

The ENCPC is assisting 5 companies in the preparation of PIN for potential CDM projects and provides training on CDM:

1. Sugar & Integrated Industries,
2. SEKEM,
3. Edfu,
4. Modern Water proofing
5. Air Liquide Company

1- Sugar & Integrated Industries Company



Energy efficiency improvement: boiler rehabilitation or replacement

Baseline: boilers in industrial and district heating sectors with some remaining lifetime

Project: thermal energy efficiency improvement of boilers, at multiple locations, through rehabilitation or replacement of the boilers

2- Edfo Pulp & Paper Company



Cogeneration System

- Cogeneration/Combined Heat & Power (CHP) is the simultaneous production of power/electricity, Hot water, and /or steam from one fuel and at the same time
- Cogeneration involves the recovery and use of thermal energy that would otherwise be wasted
- It reduces the amount of fossil fuel that must be burned to meet electrical and thermal energy requirements, hence reducing greenhouse gas emissions



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3- SEKEM Company



Landfill Gas Recovery & Flaring

- When organic waste decomposes in landfill, it creates LFG (natural by-product of decomposing organic matter)
- LFG is almost 50% methane (the primary component of natural gas & a major GHG)
- Capturing CH₄ from landfills and flaring or utilizing it for electricity generation is a substantial CDM opportunity.



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4- Modern Waterproofing Company



Substitute Basalt With Slag

- N₂O emissions from basalt mining process
- Energy savings from mining process and transportation
- Heat recovery system



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5- Air Liquide Company

Recovery of CO₂ from tail gas in industrial facilities to substitute the use of fossil fuels for production of CO₂

Baseline: Non-flaring or utilizing tail gas as fuel without CO₂ extraction from an existing industrial facility

Project:

- Scenario 1: Use of the tail gas from an existing industrial facility for substitution of the combustion of fossil fuels at a specific existing conventional CO₂ production facility; or
- Scenario 2: Use of the tail gas from an existing Industrial facility

Regional Training on CDM



The ENCPC a regional organized a training on CDM in close cooperation with UNIDO H.Q (9-13 June 2007)

The training focused on giving practical background on the Koyot protocol and its three implementation mechanisms (Clean Development Mechanism (CDM), JI and Emission Trading).

The training aimed at capacity building for the national staff from the National Cleaner Production Centers (NCPCs) in Africa, Arab Region and Latain America in addition to the staff of the other competent national stakeholders (e.g EEAA, Private sector etc.)

Cooperation with IMC on Energy Efficiency



- The ENCPC is registered as a service provider at IMC
- MOU between IMC and ENCPC includes cooperation on providing energy efficiency services to the Egyptian companies through IMC



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Österreichischer Wirtschaftsbund
Bundesrat der Wirtschaft
Regione di Economia
State Secretariat for Economic Affairs

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C- ESTs Transfer



The ENCPC is supporting the Egyptian company for Environmental Sound Technologies. The ENCPC prepares the technical specifications for new environmental sound technologies, helps in the bidding process including issuing tender, technical and financial evaluation and awarding.



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ENCPC Mission

The mission of the ENCPC is to enhance the productivity and environmental performance of Egyptian companies and thus to create business opportunities for Egyptian Industries to contribute to their long term competitiveness on the national and global markets.

ENCPC Vision

Being a national, independent Centre of Excellence for Cleaner Production (CP) and CP related matters in Egypt and gaining financial independence latest ending 2009.

Main services offered

- Cleaner Production (CP) and Environmental Sound Technology Transfer
- Management Systems and Certificates (ISO 14001, OSHAS 18001, Food Safety 22000, SA 8000)
- Chemical Leasing Projects
- Clean Development Mechanism (CDM) projects.
- Industrial waste management and recycling initiatives (creating new business)
- Training Programs (Example: PREMA)

Egypt National Cleaner Production Center

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