

In the Mediterranean

# Global Forum on Green Industry Initiative El CAIRO-28th May-















- 1. Introduction
  - 1. Objectives
  - 2. Strategy
- 2. The 100 Med Clean Report
  - 1. What it is?
  - 2. Results
- 3. Action Plan GRECO INITIATIVE
- 4. Conclusions
- 5. Next Steps















#### GRECO (Green Competitiveness)

- Integrate environmental challenges in all corporate decisions
- Increase business competitiveness and environmental benefits

- 1. Promote and Transfer to private sector Cleaner Production Techniques
- 2. To encourage and support the maximum number of businesses in:
  - 1. Adopting techniques and good practices
  - 2. Integrating the environment in their strategic objectives
- 3. Involve the governmental authorities to back Green Competitiveness

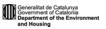














- Under the GRECO (Green Competitiveness) Initiative program, CP/RAC has collected and analyzed 100 successful case studies available from companies in the Mediterranean Region that have implemented successful cleaner production solution.
- 176 different CP solutions were identified and analyzed
- Profitability and Environmental benefits increased













#### Strategy



# Disseminating information regarding CP techniques given emphasis to the experiences contained in the Med Clean Files

- 1. This will be done inter alia through:
  - 1. The 100 Med Cleans Report Publication
  - 2. National Congress
  - 3. Networking Events
  - 4. Web Portal & Auto Audit Project
  - 5. Annual Report & Award
  - 6. Local Antenna
- 2. Given technical assistant to SMEs: how to introduce the best CP solution
- 3. Financial assistance to SMEs
- 4. Promoting public-private partnership for green competitiveness

#### The project will last 5 years















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### Finding business opportunities through Cleaner Production

#### The 100 Med Clean Report

- The report is based on the analysis of 100 cases studies available from companies in the Mediterranean countries that have implemented successful cleaner production solutions
- 176 different CP solutions were identified and analyzed
- Profitability and Environmental benefits increased

Reduction techniques at source



ROI

Recycling techniques at source



The interrelation between CP investments, environmental benefits and profitability, depend on:

- 1. The nature of the CP introduced
- 2. The Type of Product
- 3. The Sector

#### The aim is to increase the number of cases







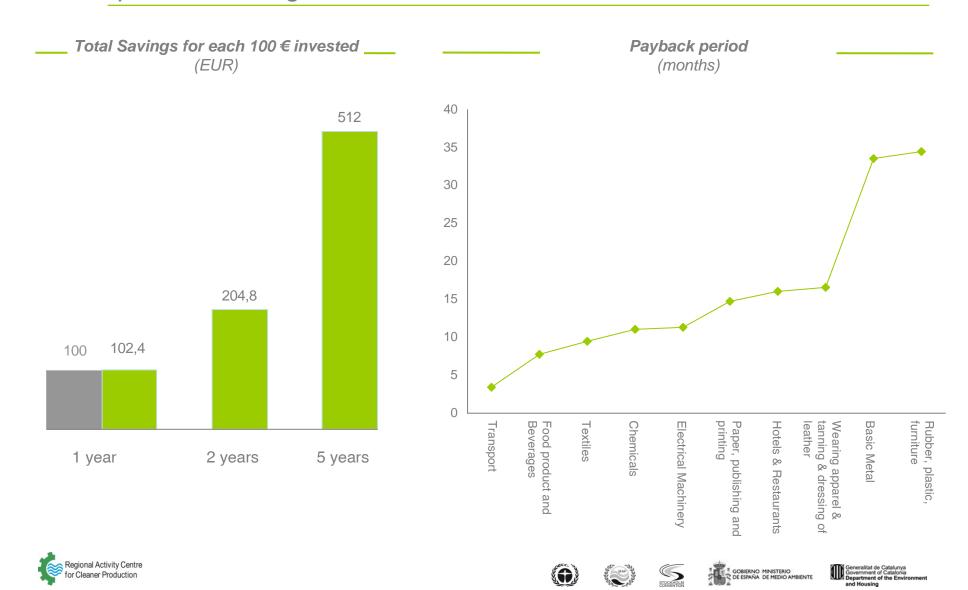








# In the majority of the cases was common to see short payback periods and high internal rates of returns





## Those solutions found recording higher levels of profitability

- Good House keeping and organizational measure
- Use of alternative production resources, gas & heat recovery and recycling systems:
- Energy saving measures and organic material recovery and recycling systems.







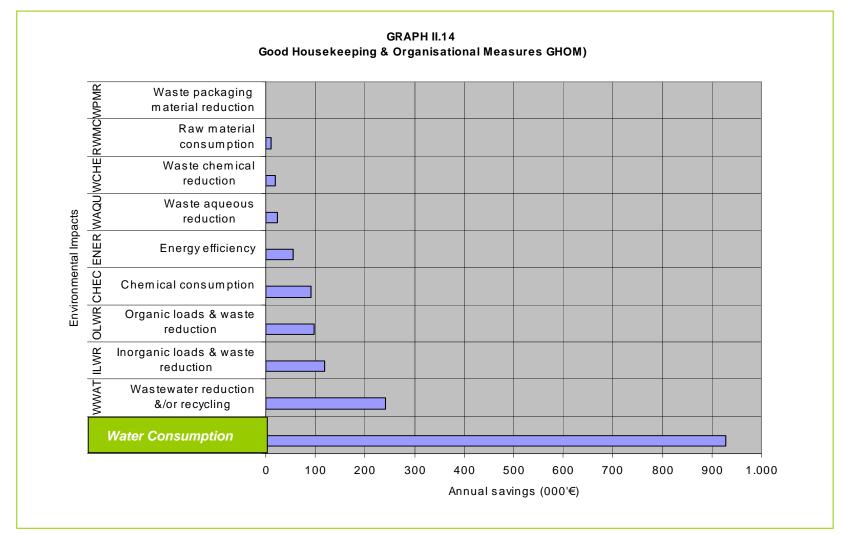








## Good House Keeping and Organizational Measures

















## Cleaner production assessments in a car battery manufacturer's

- There were number of pollution problems at the facility
- Nineteen pollution prevention opportunities were detected

The company has already
 implemented many of the low/no
 cost recommendations

- Stop washing plates immediately:
  - Environmental benefit:Reduction of wastewater

INVESTMENT € 0 ..... SAVINGS €125.000







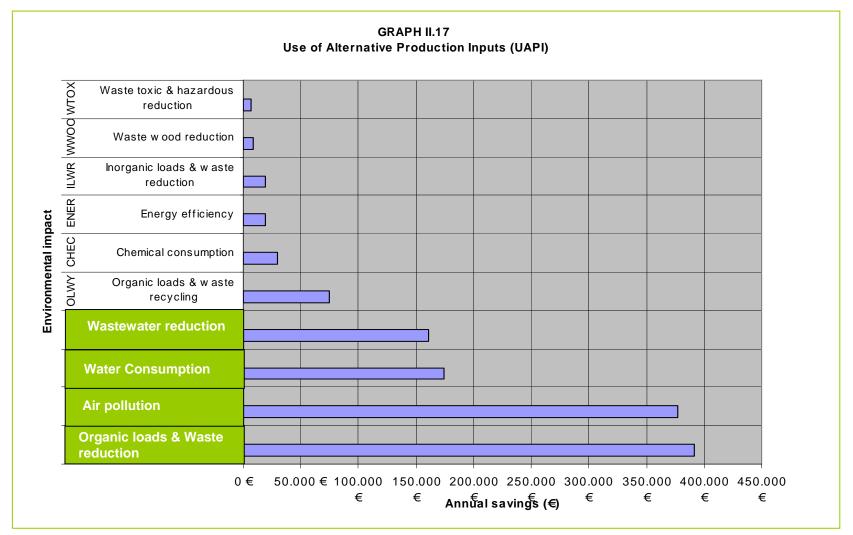








## Use of alternative production resources

















## Reduction of the cost by 47% in a Edible oil Egypt company

- There were number of pollution problems at the facility
- Decided to make a cleaner production assessments to identify actions

Five pollution prevention
 opportunities were identify during
 the audit process

- Use of liquid caustic soda:
  - Environmental benefit:
     Reduced losses of caustic soda, levels of corrosion & better working conditions.

INVESTMENT € 0 ..... SAVINGS: €75.000





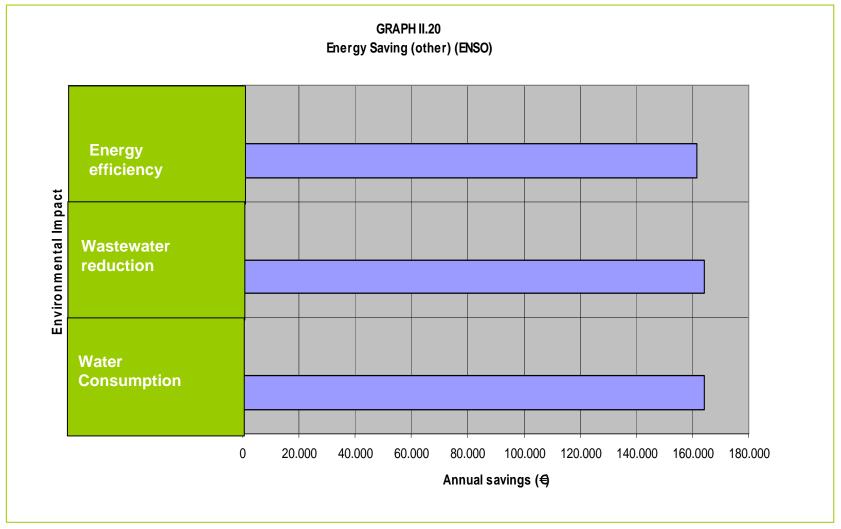


























## Reduction of water & energy consumption in a diary Croatia industry

- The main aspects to improve were:
  - in drinking water
  - J of the pollutant load
  - of energy consumption

The factory implemented 4
measures to achieved water and
energy saved objectives:

Environmental Benefits: Inter alia, savings of steam by 904
 t/year and heat energy of 500.000 KWh/year

INVESTMENT €31.051 ..... SAVINGS €328.008















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# The aim is to disseminate GRECO INITIATIVE in the Mediterranean Region

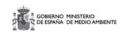
- Publish the REPORT that demonstrates how a company can increase profitability while investing in environment: Green Competitiveness in the Mediterranean: Finding business opportunities through cleaner production.
- *GRECO Congress*: The objective is to disseminate the GRECO report results among private and public sector in the Mediterranean Region, including financing support to SMEs (IFC) and visibility in the media.
- The DIGITAL PLATFORM: Provide access to relevant information.















# The aim is to disseminate GRECO INITIATIVE in the Mediterranean Region

- **The PR** activities: create the necessary networking over the country that will give to SMEs higher access to information on green competitiveness
- Auto- Audits: integrated in the Digital platform, will provide SME's relevant information for implementing CP solutions.
- **Technical Assistance Workshops**: capacity building by sector
- **The Antenna** (local expert) will be hired in each country to give services to SMEs and keep promoting the initiative.















# The aim is to disseminate GRECO INITIATIVE in the Mediterranean Region

- Biannual Contest will take place to highlight the most innovative and successful case
- The efforts will be recognized given the companies visibility in the countries
- The winner will be published on
   the GRECO ANNUAL REPORT

 Share successful cases with others and motivate new comers.

Free Audit and the bestenvironmental techniqueimplementation

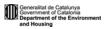














#### **GOAL:**

To develop a new and innovative "User Friendly" "Online System", to help Mediterranean SMEs to drive, at no cost, their Cleaner Production Auto-Audits as a way to contribute to their autonomous efforts on implementing CP solutions.















#### **METHODOLOGY**

- ■Using a Decision Tree System on line, the entrepreneur can be driven to do its CP solution and take the appropriate actions to improve the business and achieve good environmental impacts.
- ■The Decision Tree will drive the seeker to choose different possibilities to go.
- Each solution will end on an attached "Work Instruction" on what to do and how to do it.
- •Actions taken within the area of "Good Housekeeping Measures" were found to be the most interesting in terms of Investments vs. Payback rate and have been addressed as "First to Act" in the implementation of this Program.















## **Step # 1:**

- □ Audit On
  - o Water Savings
  - o Material Recovery and/or Saving
  - o **Energy Savings**
  - o Good Housekeeping Measures
  - o Alternative Product Designs
  - o Alternative Processes















### **Step # 2:**

- ☐ Audit On Good Housekeeping-Measures
  - o **Processes**
  - o **Systems**
  - o Warehouses
  - o Heat & Cool
  - o **Energy**
  - o Gas Emissions
  - o Waste Treatment
  - o **Furnaces**
  - o Safety & Health
  - o Vehicles















## **Step # 3:**

- ☐ Audit On Good Housekeeping Measures
  Systems
  - o Cooling Water
  - o Process Water
  - o **Information Systems**
  - o **Power Supply**
  - o **Heating Systems**
  - o **Chemical Systems**
  - o Air Conditioning Systems
  - o Waste Treatment Systems
  - o Illumination Systems













## **Step # 4:**

- ☐ Audit On Good Housekeeping Measures
  Systems Cooling Water
  - o Pipe Lines
  - o Valves
  - o **Drains**
  - o Tanks













## **Step # 5:**

- ☐ Audit On Good Housekeeping MeasuresSystems Cooling Water Pipe Lines
  - o Layout Review: Work Instruction Number WPLR/0001/09
  - o Existing Real Cases















# Financing, Fundraising & collaboration agreements for implementation

Design financial instruments to
facilitate SMEs access to Cleaner
Production

- Audit → Fundraising/ Auto audit
- Implementation of CP solutions through soft loans (IFC)

Two Mediterranean organizations

- UMCE-BusinessMed: Union of Mediterranean Confederations
- ASCAME: Association of
   Mediterranean chambers of
   Commerce and Industry

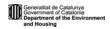














#### **OPPORTUNITIES**

We face a positive situation due to the increasing importance of the environmental world wide agenda (Presidents like Obama/ Sarkozy...) and the initiative:

"Barcelona Process: Union for the Mediterranean"

#### **CHALLENGES**

Absence of Awareness in

Industries/Institutions.

Lack of Political / Governmental

Commitment.

Lack of Financing / Economical
 Incentives.















## Next Steps

- Publication of the 100 Med Clean Cases
- GRECO INITIATIVE Report :
- Brand Registration among Mediterranean Region
- Business Plan agreed for the next 5 years
- Morocco and Egypt National Congress
- PR & Communication tools
- Brochure for small and medium companies
- A Summary of the Greco Initiative Report addressed to SME's
- Greco Initiative Web site: Its on going
- National Congress: Tunisia and Turkey on second half 2009
- The first GRECO award















There is a "green" opportunity we can't lose.....

#### Thinking GLOBAL



Increase the economic growth in the countries while decreasing environmental impacts.

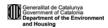
















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