



Horizon 2020 Capacity Building/Mediterranean Environment Programme

“Reducing industrial pollution: The case of pollution-intensive SMEs in coastal areas”

July 1-2, Cairo, Egypt, 2012

Introduction - The Horizon 2020 Initiative

The “**Horizon 2020 Initiative**” aims to de-pollute the Mediterranean by the year 2020 by tackling the sources of pollution that account for around 80% of the overall pollution of the Mediterranean Sea: municipal waste, urban wastewater and industrial pollution.

Horizon 2020 was endorsed during the Environment Ministerial Conference held in Cairo in November 2006 and is one of the key initiatives run under the Union for the Mediterranean (UfM). The H2020 2007-2013 Road-Map focuses on the following four pillars:

- Identification of projects to reduce the most significant sources of pollution.
- Identification of capacity-building measures to help neighbouring countries create national environmental administrations that are able to develop and police environmental laws.
- Use of the EC’s research budget to develop greater knowledge of environmental issues relevant to the Mediterranean and ensure this is shared.
- Develop indicators to monitor the success of Horizon 2020.

H2020 is made up of the following components: monitoring, reporting and research (RMR); investment; and capacity building. Under each component, a project is currently being run. H2020 Capacity Building/Mediterranean Environment Programme (H2020 CB/MEP) is the project aiming at enhancing the capacities to address pollution problems at institutional and society level. In addition, through the H2020 MEP, a Hot Spot Investment Programme (HSIP) for the West Balkans and Turkey - as complementary to the Mediterranean HSIP (MeHSIP) – has been elaborated. The other two projects currently being carried out under the investment and RMR H2020 components are respectively the MeHSIP-PPIF and the ENPI Shared Environmental Information System (ENPI SEIS).

The framework - Horizon 2020 Capacity Building/Mediterranean Environment Programme

Obviously pollution is expected to be substantially reduced through the installation and proper functioning of major infrastructures (e.g. sewage treatment plants), installing pollution reduction technologies in industries, etc. However, this won’t work if institutional and individual capacities are not in place. This is what the H2020 CB/MEP aims to enhance by operating within the existing and developing policy instruments, and supporting the implementation of the commitments undertaken in the framework of the ENP as well as other regional agreements e.g. of the Barcelona Convention, while cooperating, coordinating and synergising with all relevant (EU and other) programmes.

Aims and objectives

The main objective of this project is to support the implementation of Horizon 2020 with a special focus on environmental mainstreaming. It aims to address the following problems:

- low political priority given to the environment;
- insufficient integration of environment in the different sector policies (agriculture, tourism, transport or energy) and lack of inclusion of the different actors from local to international level;
- Insufficient capacities and resources at institutional and civil society level.



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More specifically, the purpose is to support the implementation of the Horizon 2020 Initiative Road Map and Work Plan through capacity building and awareness raising activities, and to promote integration of environment issues in other sectors policies.

Partners

This project is funded by the European Union and implemented by the National and Kapodistrian University of Athens (NKUA) in consortium with: Mediterranean Action Plan of the United Nations Environment Programme and its Regional Activity Centres and Programmes (UNEP/MAP and its RACs), National Waste Management Agency (ANGed)/ Regional Solid Waste Exchange of Information and Expertise Network in Mashreq and Maghreb Countries (SWEEPNet), Umweltbundesamt GmbH – Austrian Environment Agency (AEA), Lebanese Ministry of Energy and Water - the General Directorate of Hydraulic and Electrical Resources (LMoEW), Hellenic Ministry for Environment, Energy and Climate Change, UNESCO-IHE Institute for Water Education (UNESCO-IHE), Mediterranean Information Office for Environment, Culture and Sustainable Development (MIO-ECSDE), Arab Network for Environment and Development (RAED), WWF Mediterranean Programme Office (WWF MedPO), Association of Cities and Regions for Recycling and Sustainable Resource Management (ACR+), Arab Countries Water Utilities Association (ACWUA).

Partner Countries

The Partner countries are: Albania, Algeria, Bosnia- Herzegovina, Croatia, Egypt, Israel, Jordan, Lebanon, Montenegro, Morocco, Occupied Palestinian Territory, Tunisia, Turkey and Syria.

Course Description – “Reducing industrial pollution: The case of pollution-intensive SMEs in coastal areas”

Introduction to the training course

Small and medium enterprises (SMEs) are the backbone of the Egyptian economy. With more than 1,6 million SMEs, this sector accounts for over 90% of active enterprises in Egypt and contributes to over 80% of GDP and 75% of total employment. Air, water and land are mainly impacted because of the different types of waste produced by SMEs. This waste is not treated properly to comply with international standards and avoid the high pollution ratios measured and detected in industries. The types of waste commonly generated are gaseous waste, liquid waste dispensed in regular sanitary systems or water sources and solid waste.

The training course is organized within the framework of the Horizon 2020 CB/MEP project and in response to the capacity building needs identified earlier in the project. It addresses the need for introducing sustainability concerns in the management of pollution-intensive SMEs and focuses on (i) elucidating and managing the environmental impacts of industries and (ii) on tools and measures for mitigating the impacts on the Mediterranean Sea. The course is organized by the Regional Activity Centre for Cleaner Production CP/RAC. Its duration is 2 days; the language of the course is English with interpretation into Arabic.

Participants in this seminar (max 40) are Egyptian. This activity aims to build capacity at national level for the implementation of Horizon 2020 objectives and provide the opportunity to share relevant valuable experiences.#

Target group

The capacity building activity is of intermediate/advanced level and targeted to:

Representatives of local/national authorities, environmental regulatory bodies, particularly those with responsibilities regarding SMEs and coastal zone management, industry representatives including those of the private sector, academia, representatives of business organizations and entrepreneurs, NGOs.



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Learning objectives

The main objective of the course is to provide to the trainees a better understanding of environmental sustainable management of industries involving SMEs. The present course aims at:

- Providing information on national and the latest European Regulatory standards
- Understanding environmental impacts of SMEs including the most polluting industries
- Better understanding of technical approaches for reducing resource use and addressing the problem of industrial pollution, particularly the load of land-based sources of pollution entering the Mediterranean Sea.

Methodology and Structure

The workshop is intended to be participatory and interactive, making use of professional learning tools such as:

- Presentations
- Case studies and practical examples
- Moderated discussions
- Site visit

Learning outcomes of the training course

- Updated knowledge on modern technology and technical approaches for reducing pollution in industry.
- Understanding of the IPPC Directive and its principles: Integrated approach, Best Available Techniques, Flexibility, and Public Participation.
- Better understanding of industrial pollution management.
- Identifying the most significant environmental impacts which require mitigation and in turn increase awareness on the potential cumulative impacts of industrial plants on the Mediterranean Sea.
- Becoming familiar with the “Chemical leasing” as a service oriented business model and its combination with CP to increase environmental and economic benefits through the involvement of additional stakeholders of the production / supply chain.
- Better understanding of the concepts of green economy and Energy efficiency as adequate approaches for mitigating the impacts of polluting industries.
- Identification of relevant follow-up capacity building activities.

An overview of the course and course curriculum is given below:

- Overview of the national strategy and projects in terms of sustainable management of industrial activities involving SMEs.
- Implementation of the IPPC directive; From the IPPC to the Industrial Emissions Directive (IED), Tackling POPs in industry.
- Reducing industrial pollution: National experience in SMEs, practical examples and case studies
- Tackling Persistent Organic Pollutants (POPs) in Industry
- Opportunities of SMEs towards Green Economy
- Chemical leasing and Impact of the European Regulation on Chemicals (REACH) on Egyptian SMEs
- Profitable environmental management, Profitable chemicals management(PREMA)
- Visit to an industrial plant



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Day/Session		Topic	Description	Trainer	Method
Day 1:					
	9:00 –10:00	Official opening	Welcome addresses and opening remarks - About the H2020 CB/MEP - About CP/RAC - Introduction of course programme - Introduction of speakers and participants	Dr. Emad Adly -Deputy Team Leader of H2020 CB/MEP UNEP/MAP CP/RAC Pr. M. Ezzine -H2020 Thematic Expert UNEP/MAP CP/RAC	
Session 1	10:00-11:00	Relevant strategies and projects in Egypt	-Egyptian Pollution Abatement Project (EPAPII): financing Investment and technical assistance components -Private public sector industry (PPSI): financing pollution abatement projects for SMEs and SME advisory services -Presentation of the national cleaner production strategy	Maysoun Nabil <i>Project Manager, (EPAPII). Head of Industrial Project Dept. (EEAA)</i> Yasser Askar <i>Director of technical and institutional dept. for industry Egyptian (EEAA)</i> Dr. Atwa Hussien <i>General Manager of GC and El-Fayum Branch, EEAA</i>	Key Presentations
	11:00-11:15	Questions/Answers			
11:15-11:30 Coffee break					
Session 2	11:30-12:30	IPPC directive: legal framework, concept of BAT	Key elements of the 1996 IPPC Directive: Implementation in EU, BREF, BAT..., Environmental permits	Dr. K. Mair <i>Government of Upper Bavaria - Germany Head of Department Environment, Public Health and Consumer Protection</i>	Key Presentation
	12:30-13:00	Questions/Answers			
13:00-14:30 Lunch break					
Session 3	14:30-15:00	Tackling Persistent Organic Pollutants (POPs) in Industry	Unintentional emission of POPs during industrial processes and the BAT/BEP guidelines to reduce these emissions	Ali Abu Sena <i>Egypt National Cleaner Production Centre</i>	Key Presentation
	15:00- 15:40	Reducing industrial pollution: National experience in SMEs, practical examples and case studies	-Conversion of cluster 200 brickworks from burning heavy fuel oil to natural gas (EPAP II, Arab Abu Saad project)	Prof. Dr. Sayed Khater <i>Pollution Abatement Consultant</i>	Presentation and practical examples
15:40-16:00 Coffee break					





Session 4	16:00-16:45	Opportunities of SMEs towards a Green Economy	FEI/ECO SD services and facilities toward applying a Green Economy in Egyptian SMEs Sector	Eng. Ahmed Kamal <i>Environmental Compliance Office and Sustainable ECO SD</i>	Presentations and practical examples
	16:45-17:00	Questions/Answers			

Day/Session		Topic	Description	Trainer	Method
Day 2:					
Session 1	9:00-9:45	Profitable environmental management in SMEs	Methodological approach, implementation, Cycle of change, Experience and case studies, lessons learned	Dr. Ahmed Fayez <i>Profitable Environmental Management Network PREMANET</i>	Presentation and practical examples
	9:45-10:00	Questions/Answers			
Session 2	10:00-10:45	Chemical Leasing	Definition, main advantages, methodology, Experience of ENPC in ChL, Practical example	Ali Abu Sina <i>Egypt National Cleaner Production Centre</i>	Presentation and practical examples
	10:45-11:00	Questions/Answers			
	11:00-11:15	Coffee break			
Session 3	11:15-12:00	REACH and SMEs	Impact of the European Regulation on Chemicals (REACH) on Egyptian SMEs Experience and case studies	Dr. Adel Taha <i>Environmental Compliance Office and Sustainable Development ECO SD</i>	Presentation and practical examples
	12:00-12:15	Questions/Answers			
	12:15-13:30	Lunch break			
Session 4	13:30-16:30	Study Visit of Bricks factories in south Helwan; Helena	Assessment of the visit for priority issues: Cleaner Production options Identification of some key measures and potential adaptations of the technologies and management	Participants	Presentations and practical examples
	16:30-17:30	Closing	Closing Remarks and Certificates Award		

