



“Drought and Water Scarcity Risk Management”

Expert Facility Activity No: EFS- EG-2

WORKSHOP CONCEPT NOTE AND PROGRAM

Workshop on water conservation and water use efficiency technologies and practices in industries

23rd January 2018

Federation of Egyptian Industries, Cairo, Egypt

1. Context

Within the scope of the EFS-EG-2: “Drought and Water Scarcity Risk Management”, the EU-funded project “Sustainable Water Integrated Management & Horizon 2020 - Support Mechanism (SWIM-H2020 SM)”, in cooperation with the Federation of Egyptian Industries (FEI) is conducting a full-day workshop on various methods and technological options for water conservation in industries.

2. Introduction

Limited water supply in Egypt is exacerbated by climate change and the fact that the country shares more than 93% of its resources (the Nile River) with ten other countries; all located in the upstream stretches of the River. In order to implement water demand management which is promoted by the National Water Resources Plan (NWRP) 2005-2017, the water sector has to (1) be aware of the different types of water losses and wastage (i.e. inefficient water use), (2) develop knowledge on water conservation and water efficiency methods and water demand management (WDM) tools (economic, technical, regulatory) as they are applied in the different sectors (domestic, touristic, industrial, agricultural), and (3) be informed on the prevailing water use patterns (applied in this case on the industrial sector) and the potential water use reduction through the application of best practices and best available technologies.

The SWIM-H2020 SM specific activity EFS-EG-2: “Drought and Water Scarcity Risk Management” aims to build capacity on methods of water conservation and efficiency, and conduct a workshop on various methods and technological options for water conservation, with a focus on industries.



3. Scope and Objectives

The general objective of the workshop is to build technical capacity of the relevant actors on methods of water conservation and efficiency in the selected water sector (i.e. industry). The workshop seeks to increase the knowledge and technical capacity of the participants on water conservation issues in different types of industries (textile, food and beverage, etc.) and options (both technical and management) to reduce water consumption and introduce water savings. As such, it aims at contributing to drought and water scarcity mitigation and risk management, by educating the stakeholders on using water conservation technologies, practices and tools, and at supporting the development of a robust demand management scheme in industries.

The draft Agenda is provided below.

4. Target Audience

The following audience is targeted:

- Technical staff from various industries
- Managerial staff from industries (who are involved in resource management/ efficiency issues)
- Local engineers and consultants who may perform studies for water savings in industries
- Representatives (technical staff, planning directors) from the Ministry of Water Resources and Irrigation (MWRI)
- Representatives (technical staff, planning directors) for the Ministry of Trade & Industry (MoTI)
- Representative from the Federation of Egyptian Industries (FEI) (from the Environmental Compliance office and Sustainable Development ECO, and other departments)

The target number of participants in the workshop is up to 20-30 persons.

5. Methodology and Structure of the Workshop

The workshop is structured in three parts:

Part 1:

- Presentation of the legal framework and recent developments (by the MoTI)

Part 2:

- Presentation of different technologies and options to introduce water conservation efficiency gains in industries (by the SWIM-H2020 SM)
- Presentation of selected case studies (by different industrial representatives)
- Presentation on energy efficiency in industries

Part 3:

- Presentation of support and financial mechanism (by the FEI)
- Participatory discussion on water metering and water auditing in industries, issues around the application of water saving technologies, constraints, etc.

Electronic copies of the presentations will be prepared by LDK and provided to all participants.



The language of the training course will be English. Interpretation in Arabic will be provided.

6. Resource Persons

- Eng. Ahmed Kamal Abdel Moneim, Executive Director, FEI Technical Advisor. Email: akamal@eco-fei.net
- Dr. Maggie Kossida, SWIM-H2020 international non-key expert on Water Demand Management. Email: maggie@ldksa.gr

7. Outcomes of the Workshop

- Participants will have an improved understanding of water conservation and water use efficiency technologies and practices in industries
- Participants will be showcased with a portfolio of case studies
- Participants will gain improved knowledge on the actual benefits and constraints of the implementation by other colleagues who have already tested these interventions, as well as the prevailing legal frameworks and financial mechanisms,

8. Workshop Agenda

The draft workshop program outline is given below.

Agenda: SWIM-H2020 SM Workshop on methods of water conservation and water use efficiency technologies and practices in industries

23 January 2018

Item	Time	Description	Speaker
9:00 – 09:30		Registration and Coffee	
#1	09:30 – 10:00	<ul style="list-style-type: none"> ▪ Welcome remarks ▪ Presentation of the workshop objectives and agenda ▪ Tour de table (introduction of the participants) 	<ul style="list-style-type: none"> ▪ Eng. Ahmed Kamal Abdel Moneim (Executive Director, FEI Technical Advisor) ▪ Maggie Kossida (SWIM-H2020 Non-key Expert)
#2	10:00 – 10:30	Water conservation and water use efficiency in industries: The legal framework and the recent developments	Dr. Hanan el Hadary (Chairman, Industrial Council of Technology and Innovation, MoTI)
#3	10:30 – 11:00	State of the Industrial Water in Egypt	Dr.khaled M.abuzeid (Regional Water Resources Program Manager)
#4	11:00 – 11:45	Overview of different technologies and options to introduce water conservation efficiency gains in industries	Maggie Kossida (SWIM-H2020 Non-key Expert)
11:45 – 12:15		Coffee Break	
#5	12:15 – 12:35	"EMISAL company case study "	Eng. Mostafa Salah



#6	12:35 – 12:55	"Water treatment case study "	Dr. Sameh , Mass food company
#7	12:55 – 13:15	"Water saving technologies case study"	MoTI
#8	13:15 – 14:00	Participatory discussion on the case studies	All participants
	14:00 – 15:00	Lunch Break	
#9	15:00 – 15:20	Energy Audits in Industry: Best practices and International experience	Eng. Savvas Louizidis, Head of Energy Unit, LDK Consultants
#10	15:20 – 15:40	Technical and financial mechanisms for implementing energy and water technologies in industries	Eng. Wafaa Ismail , Energy Department Head ECO/FEI
#11	15:40 – 16:30	Participatory discussion on water metering and water auditing in industries, issues around the application of water saving technologies, constraints, etc.	All participants
#12	16:30 – 16:45	Workshop Evaluation (Questionnaires) and Closing remarks	All participants
	16:45 – 17:15	Coffee Break and Networking	