



Sustainable Water Integrated Management (SWIM) - Support Mechanism

Project funded by the European Union

**SUB-REGIONAL WORKSHOP ON
“INNOVATIVE AND ADAPTABLE TECHNOLOGIES FOR TREATED
WASTEWATER RE-USE, INCLUDING THE RE-CHARGE OF AQUIFERS AND
DESALINATION”.**

9-12 JULY 2012 Shafdan Plant, Israel



**Sustainable Water Integrated Management - Support Mechanism
(SWIM-SM)**

**H2020 Capacity Building/Mediterranean Environment Programme
(H2020 CB/MEP)**

Seminar Agenda

Update 24.6.12



Course schedule/ curriculum				
9.07.2011				
<i>Site Visit</i>				
Welcome meeting	Official opening	Welcome addresses and opening words	30 min (09:00 - 09:30)	SWIM-SM
Site 1				
Site 2				
Site 3				
10.07.2012				
	Topic	Description	Length	Method/Speaker or Trainer
Session 1	Official opening	Introduction to Horizon 2020-SWIM-SM and the course program	30 min (09:15 - 09:45)	SWIM-SM H2020 CB/MEP
Session 2	Introduction: (global) status wastewater reuse	Description of the state-of-the-art of wastewater treatment for reuse	30 min (09:45 - 10:15)	DHV – Yoav Yinon
Session 3	EU water projects	Overview of EU legislation and EU funded projects on wastewater treatment and reuse	30 min (10:15 - 10:45)	TBD
			Coffee (15 min)	
Session 4	Reclaimed water quality requirements	Reclaimed water quality requirements, based on environmental risk assessment and management	30 min (11:00 - 11:30)	DHV – Eldad Elron
Session 5	Water treatment options	Treatment options: standard treatment schemes and technologies	45 min (11:30 - 12:15)	DHV – Yoav Yinon
			Lunch (1 h)	
Session 6	Presentations by participants	Introduction of participants: expertise, experience, background, local conditions	1.5 hour (13:30-15:00)	DHV – Yoav Yinon (facilitates)
			Coffee (15 min)	
Session 7	SWIM Assessment	Is There a Best Available Technology (BAT) for Biological Wastewater Treatment in Rural/Local Areas?	45 minutes (15:15-16:00)	DHV – Efrat Ling
Session 8	Water treatment options	Treatment options: innovative and advanced technologies	45 minutes (16:00-16:45)	DHV – Yoav Yinon
11.07.2011				
	Topic	Description	Length	Method/Speaker or Trainer
Session 1	Agricultural reuse of wastewater	Agricultural use of treated wastewater and WHO guidelines	30 minutes (09:00-9:30)	DHV – Gilad Safier
Session 2	Soil Aquifer Treatment	Introduction to Artificial Recharge with Treated Wastewater	1 hour 15 min (9:30-10:45)	DHV – Jos Peters
			Coffee (15 min)	
Session 3	Soil Aquifer Treatment	SAT for Wastewater Treatment and Reuse (1)	45 minutes (11.00 - 11.45)	DHV – Jos Peters
Session 4	Soil Aquifer Treatment	SAT for Wastewater Treatment and Reuse (2) - Examples/Case studies	45 minutes (11:45-12:30)	DHV – Jos Peters
			Lunch (1 h)	
Session 5	Soil Aquifer Treatment	Presentation of the Shafdan wastewater reclamation project - WWTP and SAT	45 min (13:30-14.15)	Mekorot – Nely Tal
Session 4	Soil Aquifer Treatment	Design and Operational Aspects of SAT (1)	45 min (14:15 - 15:00)	DHV – Jos Peters
			Coffee (15 min)	
Session 7	Soil Aquifer Treatment	Design and Operational Aspects of SAT (2) - Calculations	45 min (15:15-16:00)	DHV – Jos Peters
Session 8	Exercise		1 h (16:00-17:00)	DHV – Jos Peters
12.07.2011				
	Topic	Description	Length	Method/Speaker or Trainer
Session 1	Desalination	Latest trends in reverse osmosis desalination	30 minutes (09:00-9:30)	DHV - Avraham Zavdi
Session 2	Desalination	The Israeli desalination program	30 minutes (9:30-10:00)	DHV - Zeev Zimmerman
			Coffee (15 min)	
Session 3	Desalination	Economics of the reverse osmosis desalination projects	30 minutes (10.15 - 10.45)	DHV - Zeev Zimmerman
Session 4	Desalination	Small and medium desalination unit for remote	30 minutes	DHV - Avraham Zavdi



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		area	(10:45-11:15)	
Session 5	Desalination Options	Interactive discussion with participants on desalination as an option	45 min (11:15-12:00)	DHV - Avraham Zavdi
			Lunch (1 h)	
Session 6		Presentations by participants	45 min (13:15 - 15:00)	
			Coffee (15 min)	
Session 7		Evaluation	45 min (15:15-16:00)	DHV – Jos Peters
Session 8		Certificates and closure	1 h (16:00-17:00)	SWIM-SM H2020