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



Sustainable Water Integrated Management (SWIM) - Support Mechanism

Project funded by the European Union

Welcome meeting Welcome addresses and opening words So min (09:00 - 09:30) SWIM-SM	Course schedu	le/ curriculum			
Site 1 Site 2 Site 3 S					
Site 2		Official opening	Welcome addresses and opening words		SWIM-SM
Site 2	Site 1				
No. 2012 Topic Description Introduction to Horizon 2020-SWIM-SM and the course program Session 1 Official opening Description of the state-of-the-art of wastewater Georgia Georgi					
Session Official opening	Site 3				
Session Official opening					
the course program Comparison Compariso					
Communication Communicatio	Session 1	Official opening			
Projects on wastewater treatment and reuse Clothe 15 nin	Session 2	(global) status			DHV – Yoav Yinon
Reclaimed water quality requirements, based quality requirements 1.00 - 11.30	Session 3	EU water projects	Overview of EU legislation and EU funded projects on wastewater treatment and reuse	(10:15 - 10:45)	TBD
quality requirements management management management Treatment options Mater treatment options Treatment options Mater treatment Material options Materi	Q : 4	D 1: 1			DIMI ELL LEI
Session 6 Presentations by participants Introduction of participants: expertise, experience, background, local conditions Coffee (15 min)	Session 4	quality	on environmental risk assessment and		DHV – Eldad Elron
Session 6 Presentations by participants Exercise Exercise Presentations by participants Exercise Presentations	Session 5			(11:30 - 12:15)	DHV – Yoav Yinon
Session SWIM Assessment Is There a Best Available Technology (BAT) for Biological Wastewater Treatment in Rural/Local Areas? Is There a Best Available Technology (BAT) for Biological Wastewater Treatment in Rural/Local Areas? Is There a Best Available Technology (BAT) for Biological Wastewater Treatment in Rural/Local Areas? Is There a Best Available Technology (BAT) for Biological Wastewater treatment in Rural/Local Areas? Is There are Best Available Technology (BAT) for Biological Wastewater and options Is There are Best Available Technology (BAT) for Wastewater and options Is There are Best Available Technology (BAT) for Biological Wastewater and options Is There are Best Available Technology (BAT) for Wastewater and advanced technologies Is There are Best Available Technology (BAT) for Wastewater and advanced (15:15-16:00) Is There are Best Available Technology (BAT) for Wastewater and advanced (16:00-16:45) Is The Wastewater and advanced (16:00-16:45) Is There are Best Available Technologies (15:15-16:00) Is There are Best Available Technology (BAT) for Wastewater and advanced (16:00-16:45) Is The Wastewater Treatment and Reuse (17:00-10-16:45) Is There are Best Available Technologies (15:15-16:00) Is There are Best Available Technologies (15:15-16:00) Is There are Best Available Technologies (15:15-16:00) Is There are Best Available Technologies (15:16-16:00) Is There are Best Available Technologies (15:16-16:00) Is There are Best Available Technologies (15:16:16:10-16:10-10:10) Is There are Best Available Technologies (15:16:16:10-16:00-17:00) Is There are Best Available Technologies (15:16:16:10-16:00-17:00) Is There are Best Available Technologies (15:16:16:10-16:00-17:00) Is The Israeli desalination program (15:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:10:16:16:16:16:16:16:16:16:16:16:16:16:16:					
Session 7 SWIM Assessment Is There a Best Available Technology (BAT) for Biological Wastewater Treatment in Rural/Local Areas? Water treatment options Treatment options: innovative and advanced technologies (15:15-16:00) DHV - Yoav Yinon (bechnologies (16:00-16:45) DHV - Gilad Safier (19:00-10:45) DHV - Gilad Safier (19:00-10:45) DHV - Gilad Safier (19:00-10:45) DHV - Jos Peters (10:00-10:45) DHV - Jos Peters (10:00-10:45) DHV - Jos Peters (11:00-11:45) DHV - J	Session 6			(13:30-15:00)	DHV – Yoav Yinon (facilitates)
Session 8 Water treatment options Treatment options: innovative and advanced technologies 45 minutes (16.00-16:45) DHV - Yoav Yinon	Session 7	SWIM Assessment	for Biological Wastewater Treatment in	45 minutes	DHV – Efrat Ling
Session 1 Agricultural reuse of wastewater DHV - Jos Peters	Session 8		Treatment options: innovative and advanced		DHV – Yoav Yinon
Session 1 Agricultural reuse of wastewater DHV - Jos Peters	11.07.2011	T	D	T	Made 1/Constant Trains
Session 2 Soil Aquifer Treatment Introduction to Artificial Recharge with Treated 1 hour 15 min (9:30-10:45) DHV – Jos Peters		Agricultural reuse	Agricultural use of treated wastewater and	30 minutes	
Session 3 Soil Aquifer Treatment SAT for Wastewater Treatment and Reuse (1) 45 minutes (11.00 - 11.45) Session 4 Soil Aquifer Treatment Examples/Case studies SAT for Wastewater Treatment and Reuse (2) - 45 minutes (11:45-12:30) Session 5 Soil Aquifer Treatment reclamation of the Shafdan wastewater reclamation project - WWTP and SAT (13:30-14.15) Session 4 Soil Aquifer Treatment Presentation of the Shafdan wastewater reclamation project - WWTP and SAT (13:30-14.15) Session 5 Soil Aquifer Treatment Presentation of the Shafdan wastewater reclamation project - WWTP and SAT (15:30-14.15) Session 6 Soil Aquifer Treatment Presentation of the Shafdan wastewater reclamation project - WWTP and SAT (15:30-14.15) Session 7 Soil Aquifer Treatment Presentation of the Shafdan wastewater reclamation project - WWTP and SAT (10:30-14.15) Session 8 Session 8 Desalination Design and Operational Aspects of SAT (2) - (45 min) (14:15 - 15:00) Session 8 Exercise Description Description Session 1 Desalination Latest trends in reverse osmosis desalination (15:15-16:00) Session 1 Desalination Desalination The Israeli desalination program (9:30-10:00) Session 3 Desalination Economics of the reverse osmosis desalination of the Shafdan wastewater (10:15 - 10.45) Session 3 Desalination Description Development Dev	Session 2	Soil Aquifer	Introduction to Artificial Recharge with Treated	1 hour 15 min	DHV – Jos Peters
Session 3 Soil Aquifer Treatment SAT for Wastewater Treatment and Reuse (1) 45 minutes (11.00 - 11.45) DHV – Jos Peters					
Treatment Examples/Case studies (11:45-12:30) Session 5 Soil Aquifer Treatment Presentation of the Shafdan wastewater reclamation project - WWTP and SAT (13:30-14.15) Session 4 Soil Aquifer Treatment Presentation of the Shafdan wastewater reclamation project - WWTP and SAT (13:30-14.15) Session 5 Soil Aquifer Treatment Presentational Aspects of SAT (1) As min (14:15 - 15:00) Session 7 Soil Aquifer Treatment Calculations Presentational Aspects of SAT (2) As min (15:15-16:00) Session 8 Exercise Project Presentational Aspects of SAT (2) As min (15:15-16:00) 12.07.2011 Topic Description Description Project Presentation Projects Projects Physical Research Project Presentation Projects Physical Research Presentation Projects Physical Research Presentation (15:45-16:30) Lunch (1 h) As min (13:30-14.15) DHV – Jos Peters Physical Presentation Physical Research Phys	Session 3			45 minutes	DHV – Jos Peters
Session 5 Soil Aquifer Treatment Presentation of the Shafdan wastewater reclamation project - WWTP and SAT (13:30-14.15) Mekorot - Nely Tal	Session 4	_		(11:45-12:30)	DHV – Jos Peters
Session 4 Soil Aquifer Treatment Design and Operational Aspects of SAT (1) Session 7 Soil Aquifer Treatment Design and Operational Aspects of SAT (2) - Coffee (15 min) Session 8 Exercise Description Session 1 Desalination Description Latest trends in reverse osmosis desalination Session 2 Desalination Desalination Session 3 Desalination Description Economics of the reverse osmosis desalination projects Description Description Length Method/Speaker or Trainer Method/Speaker or Trainer 30 minutes (09:00-9:30) Coffee (15 min) Coffee (15 min) DHV - Zeev Zimerman	Session 5			45 min	Mekorot – Nely Tal
Session 7 Soil Aquifer Treatment Design and Operational Aspects of SAT (2) - (15:15-16:00) Calculations Calculations Calculations DHV – Jos Peters	Session 4	_		(14:15 - 15:00)	DHV – Jos Peters
Session 8 Exercise 1 h (16:00-17:00) 12.07.2011 Topic Session 1 Desalination Description Latest trends in reverse osmosis desalination Session 2 Desalination The Israeli desalination program Session 3 Desalination Economics of the reverse osmosis desalination DHV - Jos Peters Method/Speaker or Trainer 30 minutes (09:00-9:30) DHV - Avraham Zavdi OHV - Zeev Zimerman Coffee (15 min) Session 3 Desalination Projects DHV - Zeev Zimerman DHV - Zeev Zimerman	Session 7	_	, , , , , , , , , , , , , , , , , , , ,	45 min	DHV – Jos Peters
12.07.2011 Topic Description Length Method/Speaker or Trainer Session 1 Desalination 30 minutes (09:00-9:30) DHV - Avraham Zavdi Session 2 Desalination 30 minutes (9:30-10:00) DHV - Zeev Zimerman Session 3 Desalination Economics of the reverse osmosis desalination projects 30 minutes (10.15 - 10.45) DHV - Zeev Zimerman	Session 8	ļ	Consulations	1 h	DHV – Jos Peters
Session 1 Desalination Latest trends in reverse osmosis desalination Session 2 Desalination The Israeli desalination program The Israeli desalination program 30 minutes (9:30-10:00) Coffee (15 min) Session 3 Desalination Economics of the reverse osmosis desalination projects DHV - Avraham Zavdi DHV - Zeev Zimerman					
Session 2 Desalination The Israeli desalination program The Israeli desalination program 30 minutes (9:30-10:00) Coffee (15 min) Session 3 Desalination Economics of the reverse osmosis desalination projects DHV - Zeev Zimerman OHV - Zeev Zimerman			1		
Session 3 Desalination Economics of the reverse osmosis desalination projects (9:30-10:00) Coffee (15 min)				(09:00-9:30)	
Session 3 Desalination Economics of the reverse osmosis desalination 30 minutes (10.15 - 10.45) DHV - Zeev Zimerman	Session 2	Desalination	The Israeli desalination program	(9:30-10:00)	DHV - Zeev Zimerman
	Session 3	Desalination		30 minutes	DHV - Zeev Zimerman
	Session 4	Desalination			DHV - Avraham Zavdi



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