

Regional Seminar of the ACWUA Task Force Energy Efficiency, organised by IEA/ONEE, ACWUA and GIZ MENA WANT

Auditing for Energy Efficiency in Water Supply and Wastewater Utilities – Concepts and Applications

February 24 to 28, 2014, hosted by the IEA/ONEE in Rabat, Morocco

Day	Time	Content	Responsible	Method
23.2.		Arrival of participants. Golden Tulip Farah Hotel, Rabat	ONEE	
24.2.	9.00	Introduction and welcome by the organisers and the Chairperson of the ACWUA Task Force EE	GIZ, ONEE, ACWUA, TF-EE	Plenary
	9.20-10.00	<ul style="list-style-type: none"> • Agenda • Presentation of participants/motivation, fears, expectations 	Hans Hartung (Facilitator)	Presentation by participants, sociometric placement
	10.00 h	<i>Coffee break</i>		
	10.20 – 12.30	Session 1: Motivation for a water and waste water utility to implement energy saving processes using the example of Hamburg Wasser, Germany	Mathias Stief Consulaqua, Hamburg M.Stief	Participative lectures mixed with discussion rounds and group work (30-30-15-15)
	12.30 h	<i>Lunch break</i>		
	14.00 – 15.30	Session 2: Energy saving, energy optimisation process optimisation measures at waterworks and water supply networks (part 1 = emphasis: waterworks)		
	15.30	<i>Coffee break</i>	M.Stief	
	15.50 – 17.20	Session 3: Energy saving, energy optimisation process optimisation measures at waterworks and water supply networks (part 2 = emphasis: networks)		
	17.20	Roundup	Hans Hartung	
	19 h	<i>Welcome Dinner (Restaurant)</i>	ONEE	
25.2.	9.00 – 10.30	Session 4: Energy saving and process optimisation of waste water treatment plants (part 1 = emphasis: treatment plant)	M.Stief	Participative lectures mixed with discussion rounds and group work (30-30-15-15)
	10.30	<i>Coffee break</i>		
	10.50 – 12.30	Session 5: Energy saving and process optimisation of waste water treatment plants (part 2 = emphasis: networks)	M.Stief	
	12.30	<i>Lunch</i>		
	14.00 – 15.30	Pending questions and answers for M. Stief	M.Stief	
	15.30	<i>Coffee break</i>		
	15.50 – 17.15	Session 6: An overview on energy management of ACWUA member utilities	H.Hartung	

	17.15 - 17.30 19 h	Preparation for the excursion (information by ONEE) <i>Dinner in the hotel</i>	ONEE	
26.2.	9-15 h	<u>Excursion</u> Free in Rabat Dinner in the hotel	ONEE	
27.2.	9.00 – 10.15 10.15 10.35 – 12.30 12.30 14.00 – 15.30 15.30 15.50 – 17.30 19 h	Review of the excursion and the first input by Hamburg Wasser <i>Coffee break</i> <u>Organisational issues of the ACWUA TF-EE:</u> Activities, PoO, responsibilities, TOR update, membership, etc. <i>Lunch</i> <u>Session 7: Why save energy? – An Introduction</u> <u>The energy check a tool for low hanging fruits</u> <i>Coffee break</i> <u>Session 8: Systematic survey for energy savings potentials</u> Dinner in the Hotel	H.Hartung GIZ, ACWUA, TF EE Prof. Dr. Lieback, GUTcert, Berlin ONEE	Plenary and group discussions Plenary discussion Participative lec- tures mixed with discussion rounds and group work (30-30-15-15)
28.2.	9.00 – 10.30 10.30 10.50 – 12.30 12.30 14.00 – 15.30 15.30 15.50 – 16.30 16.30 – 16.45 16.45 19 h	<u>Session 9:</u> <u>Organisational structure to detect and develop savings effects</u> <u>Survey accompanying tasks to enhance its impact</u> <i>Coffee break</i> <u>Session 10: Basics of a formal Management: example EnMS by ISO 50001</u> <i>Lunch</i> <u>Session 11: Collective development of a working program, fitting the needs of the members of the ACWUA</u> <i>Coffee break</i> Pending questions and answers for Prof. Lieback The way forward: final comments on the PoO of the TF-EE Evaluation of the workshop <i>Farewell dinner</i>	Prof. Lieback Prof. Lieback Prof. Lieback Prof. Lieback ONEE, GIZ H.Hartung ONEE	Participative lec- tures mixed with discussion rounds and group work (30-30-15-15) Plenary Plenary Questionnaire
01.3.		Departure of participants	ONEE	