

Energy Efficiency - Seminar and study tour in Germany for members of the ACWUA Task Force Energy Efficiency (TF:EE)

1. IFAT World's Leading Trade Fair for Water, Sewage, Waste and Raw Material Management. About 3,000 exhibitors from over 50 countries present their products and services
2. ACWUA Task Force: Energy Efficiency: Discussion on the draft guidelines
3. DWA Technical Forum and Symposium: Water and Energy
4. GIZ Seminar on "Energy Management Systems" in water utilities (case study OOVW)

4. May	Munich. Arrival from MENA countries		Eurostars Book Hotel		
	19.00 h	Joint dinner			
Mon 5.5	9 h	Munich Wastewater (municipal company) Presentation: Energy management systems; E-checks; E-optimization; E-analysis	Christian Berechtenbreiter Mathias Wunsch, Clemens Plail	Technisches Rathaus. Infothek R.0.409	
	10.30 h	Site visit: Wastewater treatment plant Munich I – Gut Großlappen		Klärwerk	
	14:30 -18 h (open end)	Draft Guidelines for Energy Checks/E-Analysis: 1 st Feed back to the drafting experts from Tuttahs & Meyer Engineering.	Prof. Schröder; Eric Gramlich	Hotel meeting room	
	19 h	Joint dinner		Venue: tbd	
Tue 6.5.	8.15 h	Departure from Hotel		by U Bahn	
	9.30-13 h	DWA International Symposium: <ul style="list-style-type: none"> • Energy & energy efficiency in water supply • Energy and resources management in wastewater treatment 		Hall B0	
	11..30 – 12.30	ACWUA/GWP Water Forum: case studies from 12.30: Reception at ACWUA booth	ACWU member presentations	Hall A5, Forum	
	13.30 h	Dorsch Consult: Energy saving measures in water supply and wastewater systems (e.g. the case Jordan). Introduction by Dr. Vestner	Maria Scheday and Dr.Nicolet	GWP Room 111/210 Hall A5, Forum	
	afternoon	Visit of German Water Partnership (GWP) booth, with partner booths, e.g. Hamburg Wasser A5.111/210; Sachsen Wasser; P2m Berlin; WILO; Lahmeyer GKW;		A5.112 A.Ghneim, GWP	Hall A5
		Visit of DWA booth: DWA		A5.213/312	Hall A5
		Visit at DVGW booth: DVGW CERT GmbH		A5.213/312	Hall A5
		other German Water supply companies: Gelsenwasser; Berliner Wasserbetriebe			A5.213/312
Internal meetings to prepare June workshops on performance indicators/benchmarking EE/TSM		Filip Bertzbach	Next to DWA/ACWUA		
	Dinner			free	
Wed 7.5.	8.15 h	Departure from Hotel		By U-Bahn	
	9.00 h	Arrival at IFAT			
	10-12 h	Visit to companies booth at IFAT Pumps, Pump systems, Pump monitoring 1. KSB (pumps for energy recovery, operation			

		<ul style="list-style-type: none"> monitoring, efficient pumps & motors 2. Grunfos (pump operation monitoring, efficient pumps & motors) 3. WILO (efficient pumps, motors) 	<p>10:00 h</p> <p>10:45 h</p> <p>11.30 h</p>	<p>A6.321/420</p> <p>A6.229/328</p> <p>A5.111/210 &</p> <p>A6.337/436</p>
	13.30-15:30 h	DWA Innovation Forum Water: Energy Efficiency		Hall B0
	13.30-17 h	<p>Visit companies booth at IFAT:</p> <p>Pressure, Flow, Levels, Volume</p> <ul style="list-style-type: none"> 1. Krohne Metering 2. Endress & Hausser 3. Nivus 4. Siemens 	<p>Guide: Hans Hartung</p> <p>13.30 h</p> <p>14.15 h</p> <p>15.00 h</p> <p>16:00 h</p>	<p>A5.331/404</p> <p>A5.435/534</p> <p>A5.235/334</p> <p>A1.530</p>
		Dinner		free
Thu 8.5.	8.15 h	Departure from Hotel	please check out	By U-Bahn
	9.30 – 12 h	DWA Innovation Forum Water: Water and Energy. GIZ, DWA Inputs by the ACWUA Task Force EE	ONEE & SONEDE good practices	Hall B0
	12-16 h optional	Others: Planning & design of renewable energy Barthauer (Software)		A5.111/210
		Water loss, leakage control, pressure reduction:		A4.141/240 A5.319/418
		Automation; SCADA, control systems		A1.528 A5.226
		Wastewater technology; decentralized systems		A3.125/224 B1.125/236
	16:30 h	Transfer from Munich to Feldafing GIZ Training Centre		By bus from IFAT
18.30 h	Dinner at the Feldafing centre			
Fri 9.5.	9-12 h	<p>GIZ Seminar: Energy Management Systems EnMS after DIN EN ISO 50001. Application in Germany</p> <p>Session 1: Organization and Institutional aspects</p> <p>Session 2: Energy planning; Identification of optimization potentials and processes</p>	Dr. Peter Brocks; OOWV Waterworks Oldenburgisch-Ostfriesischer Wasserverband	Senior Adviser. Directorate Safety, Quality management, Environment
	14-17 h	<p>Session 3: Audits; Relation of EnMS to other management systems</p> <p>Session 4: How to save energy and costs? Performance indicators, Budget for EnMS</p>	Dr. Peter Brocks. OOWV	Feldafing training centre, Room
	18.30 h	Farewell Dinner		
Sat 10.5	9-11 h	Way forward. Internal discussions by the ACWUA Task Force EE	Moderation: ONEE, GIZ	Feldafing training centre, Room
Sat	p.m.	Free in Munich or surroundings		
Sun		Departure from Munich airport		