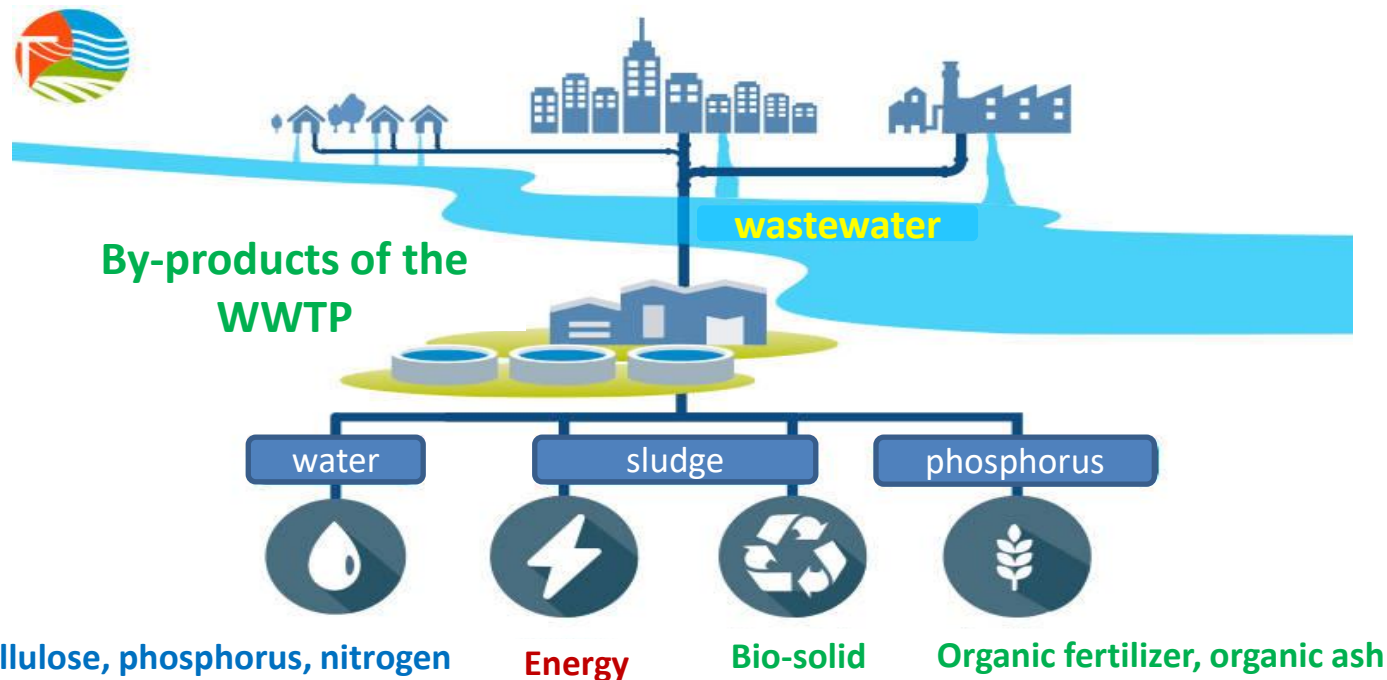


Workshop

Management of Wastewater in the Context of a Circular Economy



Treated water, cellulose, phosphorus, nitrogen

Energy

Bio-solid

Organic fertilizer, organic ash

Content

Objectives of the Workshop 01

Agenda 02

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Objectives of the Workshop

- To understand an overview of the principles and ideas towards a circular economy;
- To discover models that are favorable to a circular economy and analyze the barriers and opportunities for the transition to these models;
- To identify the possible sources for the recovery of energy and nutrients from wastewater.



METHODS



- PowerPoint presentations on elements of the circular economy;
- Contribution from participants with discussions and group work;
- Sharing of case studies/practice;
- Field visit to see concrete examples.

AGENDA - DAY 1

Day 1 – Monday, 18.07.2022, International Hotel Tirana			
Time	Duration	Topics and Responsibilities	Description/Objective
10:30 – 11:00	30 min	Registration and Coffee	
11:00 – 11:45	45 min	Welcoming and Context Elisabeta Poci, SHUKALB GWP	<ul style="list-style-type: none"> Welcome from GWP, AMBU and SHUKALB Agenda and objectives of the workshop Ground rules Pre-Assessment results Introduction of participants and expectations
11:45 – 12:45	60 min	Module 1. What is the Circular Economy? Prof. Enkelejda Gjinali, Guest Lecturer, Environmental Engineering Department, UPT	<ul style="list-style-type: none"> Principles of the circular economy Why do we need a circular economy? Linear diagram of circular economy Main cycles of circular economy
12:45 – 13:45	60 min	Lunch Break	
13:45 – 14:30	45 min	Module 2: Legal and policy framework Arbana Kola, SHUKALB	<ul style="list-style-type: none"> International Context National Context Relevant institutions in Albania
14:30 – 15:15	45 min	Working in group #1 Principles of CE	Work in group, presentation in plenary and discussions
15:15 – 15:45	30 min	Coffee Break	
15:45 - 16:30	45 min	Module 3. Business Value in a Circular Economy Elisabeta Poci, SHUKALB	<ul style="list-style-type: none"> Value Creation in a Circular Economy Closing Loops in business based on circular economy Examples to be shown
16:30 – 16:45	15 min	Open discussion	
16:45 – 17:00	15 min	Wrap-up and closing of the 1st day	To recap main findings of the day/Module and Outlook

AGENDA - DAY 2

Day 2 – Tuesday, 19.07.2022, Adriatik Hotel, Durres			
Time	Duration	Topics and Responsibilities	Description/Objective
08:30 – 09:30	60 min	Arrival in Durres	
09:30– 09:45	15 min	Introduction – Day 2 Arbana Kola, SHUKALB Participants	<ul style="list-style-type: none"> • Reflection on Day 1 • Overview of the Day 2
09:45 – 10:45	60 min	Module 4. Wastewater and its treatment in the context of the Circular Economy Prof. Enkelejda Gjinali, Guest Lecturer, Environmental Engineering Department, UPT	<ul style="list-style-type: none"> • Composition of urban waste water, centralized and decentralized treatment plants • Globally, Regionally and Locally Embracing/ Embedding/ Implementing circularity in • Status of WWTP in Albania, and our approach towards circularity in sewage treatment • Challenges with technologies and mind set
10:45 – 11:05	20 min	Coffee Break	
11:05 – 11:50	45 min	Working in group #2	Work in group, Presentation in plenary and discussions
11:50 – 12:20	30 min	Module 5. Case studies of the Wastewater and its treatment the Context of the Circular Economy Elisabeta Poci, SHUKALB Arbana Kola, SHUKALB	<ul style="list-style-type: none"> • International and national case studies on the reuse and circulation
12:20 – 12:50	15 min	Wrap-up and closing	<ul style="list-style-type: none"> • Evaluation by participants • Handover of certificates • Group Picture • Official closing
12:50 - 13:50	60 min	Lunch break	
13:50 – 15:30	100 min	Study visit at the Waste Water Treatment Plant, Durres	<ul style="list-style-type: none"> • Anaerobic digesters for bio-gas production • Co-generation of bio-gas and electricity from the network • Sludge drying beds • Water quality testing / laboratory • Experience at the Bird watching tower
15:30		Departure to Tirana	

About SHUKALB

- Professional Association, not-for-profit, established in 2000;
- Mission: 1) To advocate the collective interests of professionals in the water sector; 2) Capacity building in the water sector;
- Over 20 years of experience in designing and delivering over 50 programs and trainings; development and implementation of projects; awareness programs; conferences and exhibitions;
- Partners with institutional and international actors in the implementation of reforms in the sector – Test-Based Training and Certification Program;
- Governing member of the IWA, EWA, IAWD, ABC

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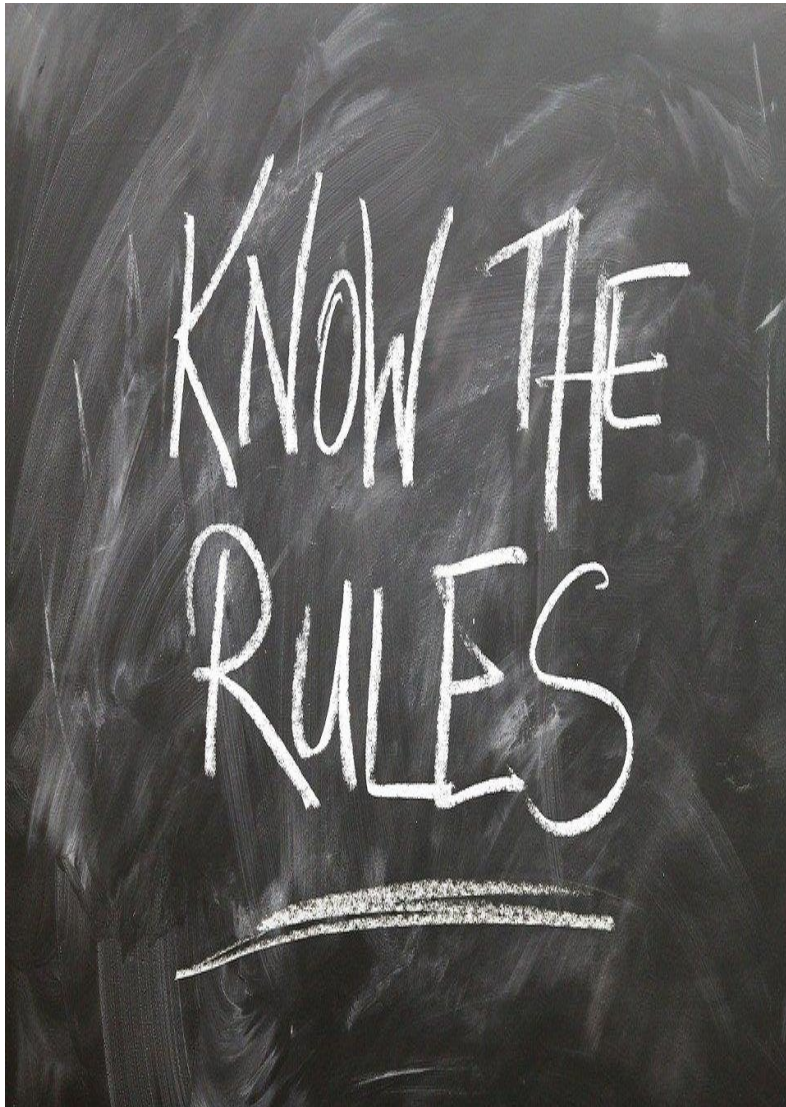


Let's get involved

Day 1: Wrap up of Day 1

Day 2: Reflection on Day 1

Day 2: Wrap up of Day 2



Ground rules

We arrive, start and finish on time!

Forget your phones and email!

Share your thoughts and be open to new things!

Give honest feedback!

We agree to disagree!

Have fun!

Pre-Assessment Synthesis

Professional skills and expertise

Academic background

The participants have completed higher education in the fields of Hydrotechnical Engineering, Environmental Engineering, Food Chemistry, Environmental Industrial Chemistry, Environmental Biology, etc. but also professional education.

Sectoral work context

The participants work in various institutions such as: Water Regulatory Authority, Water and Sewerage Company, National Water Supply-Sewerage and Waste Infrastructure Agency, Municipality of Tirana, Water Resources Management Agency, National Environment Agency, Ministry of Infrastructure and Energy.

Public sector:
10

Private sector:
-

Civil sector:
-

Years of professional experience

Most of the participants, 90% have work experience up to 6 years. This shows that the participants are relatively new in this sector and such a workshop is important for the further increase of knowledge in this field and for the exchange of experiences and challenges between them.

Up to 6 years	7-9 years	10-12 years	13-15 years	More than 15 years
9	0	1	0	-

Current position

From the total number of participants, 1 of them is a water supply administrator, 7 are specialists, 1 assistant, and 1 technician.

Pre-Assessment Synthesis

	Skill/expertise	Rating of skill level				
		1	2	3	4	5
1	What is the Circular Economy and why is it important?	4	1	5	-	-
2	Main principles of the circular economy	4	4	2	-	-
3	Linear diagram of circular economy	4	4	2	-	-
4	Main cycles of circular economy	4	5	1	-	-
5	Legal and institutional aspects for the implementation of circular economy in your workplace	5	4	1	-	-
6	Income of the circulating economy in business	5	5	-	-	-
7	The role of wastewater in the circular economy	5	1	3	1	-
8	How Wastewater Treatment Plants contribute to the circular economy	5	2	2	1	-
	Amounts	28	26	16	2	-
	General/Generic Trainer's skills	45.0%	32.5%	20.0%	2.5%	0%

Presentation of pre-assessment results

- Interest of the participants in the basic concepts and principles of the circular economy, and their application in practice, in general, and in relation to the treatment of wastewater;
- Specific interest in policies, legal/institutional framework, applicability in practice;
- The impact/contribution of the water sector to the circular economy;
- The first workshop on this topic for all participants.

Summary of participant expectations

- Interactivity by trainers, using and concrete examples, exercises;
- Engaging participants to contribute their experience during discussions;
- Bringing examples from the application of these principles in EU countries.



PARTICIPANTS:

1. Who am I?
2. What I do?
3. Where I work?
4. What motivates / demotivates me in my work?
5. Why is being a trainer important for me?
6. Hobby?