

## D.T2.21 FIVE TRAINING COURSES IN THE 5 REGIONS FOR UTILITIES PARTNERS AND STAKEHOLDERS ON PILOT ACTIVITIES

# CROATIA

12/12/2018

## 1. Executive Summary

The main goal of this deliverable is to capture the most relevant information about the first set of trainings (D.T2.2.1) carried out in all five of the pilot countries in 2018. The document will be composed of an agenda and a description of the training's key parts; a participant list complemented; and a list of the materials provided to the participants. The trainings have the main purpose to present and interactively test the Integrated Sustainability Assessment (ISA) tool that can be used to systematically assess technical innovations for energy optimisation of wastewater treatment plants (WWTPs) on different sustainability criteria. In this way it helps potential users such as utility operators or decision-makers in municipalities to determine whether and how the implementation of measures to increase energy efficiency and renewable energy production are useful. This is done by making predictions about potentials to improve energy efficiency, the technical feasibility or the environmental sustainability of the REEF2W solutions.

## 2. Agenda

Time	Description
10:00	Presentation and introduction of the REEF 2W-Projekt
10:20	Short discussion on current legislative framework in Croatia
10:50	REEF 2W-Tool introduction
11:30	Feedback, Discussion
12:00	Site visit
13:00	End of the training

**Table 1: Agenda of the training**

The training course was held on November 14, 2018 in the premises of ZOV (Zagreb Wastewater Ltd). The training course was organized and guided by North-west Regional Energy Agency (REGEA) and supported by Zagreb City Holding Ltd. The aim of the training was to introduce the REEF 2W project and the ISA-tool developed

within the project to the company which operates and manages the Zagreb wastewater plant in order to receive their feedback and to involve them in the project activities.

The training was comprised of five key parts. Mr Velimir Šegon from REGEA moderated the training and together with other colleagues from REGEA guided the participants through the tool. The core content of the training course was a power point based presentation and tool in excel file. The first part of the training introduced the different participants from two companies and one energy agency and gave a short overview on the REEF2 W project. Here, the different pilot sites and the specific technological upgrades and their differences among one another were presented. The second part aimed at discussing the main legislative barriers regarding the incentive mechanisms and disposal of the sludge from WWTP.



**Picture 1: Velimir Šegon from REGEA presenting REEF 2W project**

The third part of the training directly proceeded to introduce the tool. The tool was introduced through the excel file which included its key sections followed by detailed explanation. Each tool component was discussed which allowed to receive the participant's feedback on what could be eventually updated or revised in the next version.

After the discussion a short site visit was organized and held by employees from WTE in order to present Zagreb WWTP to REEF 2W project partners.



**Picture 2: Ms Astrid Verbolle from ZOV is guiding the training participants through site visit**



Picture 3: Wastewater treatment plant in Zagreb

### 3. Participant and speakers list

Figure 1: Participant list with signatures





**First training course and workshop for public utilities and energy agencies - REEF 2W- Participant List - Zagreb, 14.11.2018.**

Number / Broj	Name / Ime	Surname / Prezime	Company / Organizacija	Country / Država	E-mail address / E-mail adresa	Signature / Potpis	<p>Ovom potvrdom potvrđujem (kao zastupnik) da u budućnosti vrijedne promocije putem mreža REEF 2W- organiziraj da se uključe da partneri projekta REEF 2W- a-8-og, budući da u mrežu mogu doći kao podiznate i uključiti u suradnju projekta. Odlučujući da se pridružim daju moje informacije ugovorom mreže REEF 2W- i uključuju me u mrežu i uključe me u aktivnosti mreže REEF 2W- i uključuju me u mrežu REEF 2W-.</p> <p>I hereby confirm my consent for inclusion that within cooperation by me is possible at any time in the REEF 2W project partners to collect, process, use, and include my personal data exclusively for the purpose of this project.</p> <p>I confirm my consent that personal data of me during this event may be used for publications except the REEF 2W homepage/social media.</p>
1	VALERIJA	VREČEK HABAZIN	REGEA	HRVATSKA	valerijs@reg.hr		
2	MARTINA	KRIZMANIĆ	REGEA	HRVATSKA	mkrizmanic@reg.hr		
3	ELVIS	KRIZMANIĆ	WTE	HRVATSKA	elvis.krizmanic@wte.hr		
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The training course addressed the two project target groups: public utilities and energy agencies. Velimir Šegon, Valerija Vrećek Habazin and Martina Krizmanić were

facilitating the training (REGEA). The training course aimed at involving representatives of the ZOV (Zagreb wastewater Ltd) company that is responsible for the design, financing, construction and operation of the Central wastewater treatment plant Zagreb (CWWTZ) and related infrastructure. Two employees of WTE Wassertechnik GmbH, a part of a consortium that owns ZOV in charge of the management of the CWWTZ, were participating at the training - Mr Rene Matthies and Mr Elvis Kešetović.

Also, project partners from Zagreb City Holding Ltd., Bojan Ribić and Robert Kostić were participating at the training and presented the design and development of the pilot MODEL A: “Modification of WWTP to accept Organic Fraction of Urban Waste to recovery more, stabilize and lower the treatment costs in the circular economy view.”

## 4. Training Materials

Type of material	Description
PowerPoint on REEF 2W project	Introduces the project, its objectives, potential benefits, and country partners as well as the different pilot sites and the specific fictive technological upgrades and their differences among one another were presented.
Prototype of ISA-tool (Excel)	Used to show structure and content of ISA-tool and to fill in values together with participants in order to gain feedback on strengths and weaknesses.
Long version of guideline for the ISA-tool (DT.5.1)	Presents the ISA-tool in detail as well as the technological upgrades being undertaken during REEF 2W and benefits expected to arise from their implementation.
Abstract of guideline for the ISA-tool (DT.5.1)	Produced by adelphi and Kompetenzzentrum Wasser Berlin specifically for the training (in English and German). It summarizes the long version, yet including more graphical elements.
Training Curricula (DT1.5.5) in Croatian	Summarises the general approach taken in REEF 2W to conduct the trainings and provides information on potential participants, trainers, and the methodology.